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## Disclaimer

This catalog includes academic policies, procedures, programs, courses, and requirements in effect at the time of publication. The University faculty and administration reserve the right to make changes in these regulations; some of these changes may affect students' programs. Efforts will be made to publicize all changes, but it is the responsibility of students to ascertain the requirements of their programs at all times.

# ADMISSION AND COSTS

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## Undergraduate Admission

For the latest admissions information, visit our website (<http://uwm.edu/admission/>).

Freshman students can now apply using either the UW System application or the Common App. All other applicants should use the UW System application. No matter which application you use, there's no undergraduate application fee!

The University of Wisconsin-Milwaukee encompasses three campuses (UW-Milwaukee, UWM at Washington County and UWM at Waukesha) that offer different degree types and programs. When applying on the UW System application or Common App, **please be certain to select the preferred campus to which you wish to apply. You may not submit an application to more than one UWM campus.** If you are unsure which campus to choose, please contact the Office of Undergraduate Admissions at [undergraduateadmissions@uwm.edu](mailto:undergraduateadmissions@uwm.edu) or 414-229-2222.

You will need to supply the necessary documents like transcripts and optional test scores separately. We will accept transcripts and test results submitted electronically from a vendor or testing agency. You will be notified of any additional materials needed to complete your application (including what we still need from you to make an admission decision) and can track the receipt of these documents and the progress of your application review online via the Admissions Portal (<https://uwm.edu/admissionsportal/>).

If you wish to apply as a non-degree or summer guest student, you may use the electronic applications available here (<https://apply.wisconsin.edu/>). If you require a paper application, you can download a PDF of any application from this site.

For application questions, please contact Office of Undergraduate Admissions at [undergraduateadmissions@uwm.edu](mailto:undergraduateadmissions@uwm.edu) or 414-229-2222. Contact information for other UWM departments is available here (<https://uwm.edu/contact/>).

## Application Deadlines

UWM begins accepting undergraduate applications on August 1 for the following fall term, with a priority application deadline of March 1. After the priority deadline, the Office of Undergraduate Admissions will continue to review applications on a case-by-case basis until enrollment capacity has been reached. Applications for the spring term (classes start in January) are typically accepted until December 1. **However, some programs have earlier deadlines and/or requirements.** Check our website (<http://uwm.edu/undergrad-admission/>) for up-to-date information.

It is to your advantage to apply early so that you receive important information as soon as possible, not to mention scholarship consideration.

## Variations in Admission Requirements and Deadlines

### Architecture and Urban Planning

Admission to the School of Architecture and Urban Planning is selective and competitive. Most students admitted to the School will have a high school cumulative grade point average of 3.0 on a 4.0 unweighted scale. The application priority date for Architecture and Urban Planning is **April 1** (for the subsequent fall term) or **December 1** (for the spring term), but earlier application is advised. The School of Architecture and Urban Planning takes a wholistic approach when reviewing applicants. Grade point average is only a portion of the admission decision. Other factors include the applicant statements, rigor of high school curriculum, and extra-curricular activities.

### Engineering and Applied Science

Admission to the College of Engineering and Applied Science is selective. The primary review factors are the strength and quality of the high school curriculum, high school class rank if available, grade point average, and ACT or SAT results. Well-prepared applicants will have four years of high school mathematics at the level of algebra and above and four years of natural science including biology, chemistry and physics. Relevant non-academic factors are also considered. See the CEAS section of this Catalog for additional specific information.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies. The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

### Nursing

High school science units must include at least one year of high school chemistry. Admission to the pre-nursing program is selective. The application priority date is **March 1** for fall applicants. Apply as early as possible; applications will be accepted only until program capacity has been reached.

### Peck School of the Arts

- **Dance:** An audition is required for entry into both the Dance BFA and BA. Audition dates are scheduled during the fall, spring, and summer terms. More information is available through the Dance department (<http://uwm.edu/arts/dance/>).
- **Art & Design:** The Department of Art & Design requires all incoming students to submit a portfolio for review. The portfolio is required in order to be considered for the Art & Design Incoming Student Scholarship. Portfolio deadlines are **October 15** (for spring admission) and **March 1** (for summer or for fall admission with consideration for scholarships). More information through Art & Design (<http://uwm.edu/arts/art-and-design/>).
- **Music:** Students wishing to enter the UWM Music Department must interview and/or audition for admittance to any of the Music degree programs. You must arrange for an instrument or voice audition in person, online, Skype, or alternate submission. More information here (<http://uwm.edu/arts/apply/>).

## Application Process

We strongly encourage you to apply online. The UW System application will provide an expedited experience. If you are applying to UWM and other schools outside of the UW System, the Common App will be most helpful. There's no undergraduate application fee with either platform. Most applicants find it faster and more convenient, and applications are received and processed much more quickly. To apply for admission as a new freshman, see the Freshman (p. 17) section of this page.

For the latest admissions information, visit the UWM's Undergraduate Admissions (<http://uwm.edu/undergrad-admission/>) page or call the Office of Undergraduate Admissions at (414) 229-2222.

## Four-Year Graduation Guarantee

Many students choose to attend classes part time, but for others, attending full time in order to obtain their degree as quickly as possible is the top priority. If that is your goal, UWM's Four-Year Graduation Guarantee may be for you.

To qualify, students must enter UWM as new freshmen during the fall term and must have appropriate academic preparation and placement test scores. They then sign a contract agreeing to satisfy other specified academic progress requirements while following the prescribed program of study. UWM, in turn, guarantees that students who fulfill these requirements will be able to complete their undergraduate degree within four years of initial enrollment at UWM. This program is available within all of UWM's baccalaureate programs, although specific requirements may vary. Your academic advisor can provide more information about this option, or contact the academic advising office of the school or college to which you will be seeking admission.

## Advising and Orientation for New Students

All new students are assigned an academic advisor upon admission to UWM. All freshmen and transfer students are required to participate in an orientation program (<https://uwm.edu/studentorientation/>) to enroll in classes. Programs are held during the summer for students entering in the fall semester and during January for students entering in the spring semester. A family orientation is held concurrently with the freshman program.

To be invited to an orientation, freshmen must complete:

- The Intent to Enroll survey in the Admissions Portal (<https://uwm.edu/admissionsportal/>)
- Course Placement (<https://uwm.edu/onestop/enrolling/before-you-enroll/freshman-placement-testing/>)
  - Submit ACT or SAT scores OR
  - Complete UWM-specific math and English placement tests
- Determine your living arrangements
  - Complete the University Housing contract and pay the \$100 Deposit
  - Submit an exemption form with documentation

Transfer students only need to complete their Intent to Enroll to be eligible for Orientation and can choose to only complete a virtual course instead of attending an in-person program to fulfill their requirement. Transfer students are strongly encouraged to meet with an advisor prior to enrolling in courses.

All new students pay a \$150 Orientation fee, and freshmen will pay an additional \$100 New Freshman Fee for the additional transition programming provided.

More detailed information about this process will be mailed to you upon admission to the University. For more information on steps to complete before you can enroll in classes, see our Admitted Students page (<http://uwm.edu/admitted/>).

## Summer Sessions Enrollment

Students admitted as degree candidates at UWM for the summer term may attend summer sessions and continue in the fall semester, provided they continue to satisfy established academic standards. Admission requirements are the same as for other semesters. Students enrolled for the spring semester automatically receive registration information for summer sessions.

New freshmen or transfer students admitted for the fall semester also may request a change of term to the preceding Summer Session in order to begin their studies earlier at UWM. For more information about a term change, call the Office of Undergraduate Admissions at (414) 229-2222. Or submit a term change form in the Admissions Portal (<https://admissions.uwm.edu/manage/login/>).

Students enrolled at another college or university during the academic year who wish to attend UWM during the summer term only may qualify for admission as Summer Guest students. See the Non-degree (p. 19) section of this page for specific information.

Find more information about summer sessions enrollment here (<https://uwm.edu/undergrad-admission/student-type/summer-session/>).

## Admission to Pre-professional Programs

Students pursuing pre-professional programs in the School of Architecture and Urban Planning, Peck School of the Arts, Sheldon B. Lubar College of Business, School of Education, College of Engineering and Applied Science, College of Health Sciences, College of Nursing, and Helen Bader School of Social Welfare are admitted directly into those schools and colleges and are advised there. However, admission to a pre-professional program does not guarantee subsequent admission to the professional program or major.

Admission to the professional program/major occurs only after a student has completed the specific pre-professional requirements outlined in the school and college sections of this catalog. Admission to the pre-professional program does not imply or guarantee that a student will be able to enter or complete a professional program/major within any specific time period and, in fact, admission to some professional programs/majors is very competitive. Enrollment in required courses is subject to limitation.

### Requirements for employment, licensing, or professional organizations:

Students should be aware that some professions and occupations are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records prior to acceptance by the placement site. Students are responsible for obtaining the information necessary to become knowledgeable about special requirements such as these and should plan their studies accordingly.



For the latest admissions information, visit our website (<http://uwm.edu/admission/>).

## Freshman Admission Policy Statement

To provide high quality educational opportunity for students, the Office of Undergraduate Admissions admits students whose academic preparation, background and personal experience suggest that they will succeed at the institution, benefit from that educational experience, and contribute to the educational environment.

Freshman applicants are evaluated through a comprehensive, individualized review process and students with a wide range of academic achievement and personal experience are offered admission at all three UWM campuses.

## Freshman Admission Standards

Freshman applicants will typically demonstrate an appropriate level of preparation and potential by providing evidence of the following:

### 1. High school graduation or its equivalent

Your academic performance in the classroom is the most important factor in the review of your application. We carefully consider the pattern and rigor of your high school coursework, class rank (if available), overall GPA and grades in specific courses related to your intended major at UWM. The most competitive candidates for admission to UWM typically surpass these unit requirements.

- English: 4 units
- Math (Algebra 1, Geometry and Algebra 2 or equivalent): 3 units
- Natural Science: 3 units
- Social Science: 3 units
- Academic Electives: 4 units

### 2. Completion of an appropriate college preparatory curriculum

Satisfactory completion of at least 17 credits (1 credit = 1 year) of high school courses, distributed as shown above, is the minimum expectation. Additional coursework beyond this minimum level is strongly encouraged and will increase the applicant's likelihood of academic success at the university. Some academic programs have additional academic preparation requirements.

### 3. Evidence of academic ability and readiness as demonstrated by academic performance in high school

All relevant academic factors are considered, including grades and grade point average; high school class rank (if available); choice of curriculum; and strength of the academic program relative to the course offerings available to the student in the high school.

### 4. Evidence of academic ability and readiness as demonstrated by performance on standardized test - optional

Test score submission is optional. If you choose to submit test scores, performance on the ACT or SAT is only one factor considered in the admission process. In addition to your composite score, we also consider your sub-scores in the area(s) (English, math, reading, science) that closely relate to your intended major at UWM. While the writing portion of the ACT is not required, we will consider these results if you wish to submit them.

### 5. Additional factors considered

We want to know more about you beyond your academic record and test results! Other factors considered in the review process include, but are not limited to, student experiences, work experience, leadership qualities, motivation, community service, special talents, etc. This information is collected when you complete the application.

The essay is where you answer the prompt and tell your story. Letters of recommendation are not required but will be considered should you choose to send them.

For the latest admissions information, visit our website (<http://uwm.edu/admission/>).

## Transfer Student Admission and Acceptance of Transfer Credit

### Transfer Admission Guidelines

Transfer admission is a holistic and selective process, and no single criterion guarantees admission. The following factors are taken into consideration when reviewing applications:

- Demonstrated satisfactory academic progress
- Successful completion of college-level math and English courses
- Total credit hours completed
- Academic standing at previous institution

If you have fewer than 12 transferable credits, we will also review your high school academic records.

### Additional Specific Requirements

Transfer admission to the **College of Engineering and Applied Science**, the **School of Architecture and Urban Planning**, and the **College of Nursing** is selective. Many programs in the **Peck School of the Arts** have audition or portfolio requirements. In addition, admission to many other individual programs/majors is competitive and subject to capacity limitations, with higher standards or additional criteria considered. For more details, check the admission requirements listed for the particular academic program in which you are interested.

International students have additional application requirements; see that section for details.

## Application Process

Apply electronically via the University of Wisconsin System electronic application website (<https://apply.wisconsin.edu/>). If you apply electronically, you will need to submit the necessary supporting documents separately. Electronic transcripts sent from schools and third party vendors should be sent to [undergraduateadmissions@uwm.edu](mailto:undergraduateadmissions@uwm.edu). Transfer applicants must submit, at minimum:

- a completed application form;
- official high school transcript(s); and
- official transcript(s) from any post-secondary institution(s) attended

You will be notified of any additional materials needed to complete your application. Complete instructions and information about applicable deadlines are available on the website.

If you are unable to apply online, a PDF may be downloaded from <https://apply.wisconsin.edu> (<https://apply.wisconsin.edu/>) to print and mail in.

The Registrar's Office will review your prior college coursework and post your transfer credit equivalencies to your PAWS account. This process can take 1-2 weeks following admission to the university, so it is important that you apply early in order to have this information in time for academic advising and registration prior to your desired term of enrollment (see dates and deadlines below).

## Recommended Filing Dates for Transfer Students

Filing and completing your application for admission (including all transcripts and the application fee) as early as possible is recommended so that transfer students are able to receive an appointment to register for classes at approximately the same time as continuing students. In general, a decision on a complete application is made by the Office of Undergraduate Admissions within 2-4 weeks, and transfer credit evaluations are completed within four weeks of the date of admission. Recommended dates by which a completed application should be on file are as follows: **February 15** (summer and fall terms) and **September 15** (spring term).

## Application Deadlines for Transfer Students

**Fall term:** UWM begins accepting undergraduate applications on August 1 for the following fall term, with a priority deadline of March 1. After the priority deadline, the Office of Undergraduate Admissions will continue to review applications on a case-by-case basis until enrollment capacity has been reached.

**Spring term:** Applications for the spring term (classes start in January) are typically accepted until December 1. **However, some programs have earlier deadlines and/or requirements.** Check our website (<http://uwm.edu/undergrad-admission/>) for up-to-date information.

Earlier deadlines apply for certain programs and applications received after enrollment capacity has been reached may not be reviewed. The application priority date for Nursing and Architecture and Urban Planning is **March 1** (for the subsequent fall term) or **November 1** (for the spring term). For Art & Design or Music, apply by **March 1** for scholarship consideration. Check our website (<http://uwm.edu/undergrad-admission/>) for up-to-date information and for applicable deadlines for other terms.

## Transfer Credit Acceptance

Credit is generally awarded for relevant and appropriate college-level coursework successfully completed at institutions accredited by a **regional accrediting association**. Credit also may be awarded for college-level work successfully completed at degree-granting institutions accredited by other **national accrediting organizations** that are recognized by the Council for Higher Education Accreditation (CHEA), assuming the provisions outlined below also are met. (Foreign institutions must be recognized by the Ministry of Education, or equivalent, of the home country.)

In order for credit to be awarded, courses must typically be similar in nature, level, and content to a course in UWM's undergraduate curriculum, and be applicable to one of UWM's academic programs at the baccalaureate level. Credit generally is not awarded for continuing education coursework or for courses that are remedial, vocational, technical, or doctrinal in nature.

Additional transfer credit may be awarded to students who enter specific programs for which UWM has established articulation agreements (<https://uwm.edu/registrar/students/articulation-agreements/>) or other program-specific transfer credit agreements, with a partner institution.

Seventy-two (72) credits is the maximum total number of credits that may be awarded for coursework earned at one or any combination of two-year (associate degree level) institution(s).

In addition to credit for courses completed at other schools, students can also receive transfer credit for previous education or training or by testing

on their current knowledge. See Transfer Information (<http://uwm.edu/registrar/students/transfer-information/>) for more information.

## Credit Transfer from the Wisconsin Technical College System (WTCS)

Students enrolled in the Wisconsin Technical College System who wish to continue their education at UWM may transfer credits toward their bachelor's degree in the following ways:

- Students enrolled in a WTCS Associate degree granting schools (at present, these are offered at Chippewa Valley Technical College, Madison Area Technical College, Milwaukee Area Technical College, Nicolet Area Technical College, and Western Technical College) may be eligible to transfer up to 72 credits toward the baccalaureate degree.
- Students enrolled at other WTCS programs or campuses may be eligible to transfer some appropriate general education coursework toward the baccalaureate degree.
- There also are many program-specific transfer credit agreements governing acceptance of credit from some WTCS programs. For details, see Transferring Course Credits (<https://uwm.edu/onestop/your-student-record/transfer-credits/transferring-course-credits/.html>).
- The UWM Office of Undergraduate Admissions maintains an office at the MATC-Milwaukee downtown campus in order to assist students with transfer-related questions. For more specific information, get in touch (<http://uwm.edu/contact/>) for easy access to an online information request form, as well as phone, email, live chat, or social media contact information.

For more information about these or other transfer opportunities, students should consult with their Wisconsin Technical College advisor, the UWM Office of Undergraduate Admissions, or the UWM Registrar's Office.

Go to Transfer Wisconsin (<https://www.wisconsin.edu/transfer/.html>) to learn more about how courses transfer in the University of Wisconsin, Wisconsin Technical College, and Tribal College Systems.

For the latest admissions information, visit our website (<http://uwm.edu/admission/>).

## Re-entering and Re-admitted Students

Students who have not been enrolled at UWM for more than two semesters must file a re-entry application to return to the University. Official transcripts of all college work taken during the absence from UW-Milwaukee must be submitted. This application is available using the electronic application available here (<https://apply.wisconsin.edu/>) or on our Forms & Resources (<https://uwm.edu/undergrad-admission/forms/>) page.

UWM begins accepting undergraduate applications on August 1 for the following fall term, with a priority deadline of March 1. After the priority deadline, the Office of Undergraduate Admissions will continue to review applications on a case-by-case basis until enrollment capacity has been reached. Applications for the spring term (classes start in January) are typically accepted until December 1. **However, some programs have earlier deadlines and/or requirements.** Check our website (<http://uwm.edu/undergrad-admission/>) for up-to-date information.

In addition to filing a re-entry application to the University, a student who has been dropped from the University because of poor academic performance must be approved for re-admission by the dean of the

school or college from which the student was dropped. Students should schedule an appointment with their academic advisor to begin the school or college approval process.

For more information about re-entry procedures or to request an application form, contact the Office of Undergraduate Admissions at (414) 229-2222.

For the latest admissions information, visit our website (<http://uwm.edu/admission/>).

## Non-degree Students

### Who should apply as an Undergraduate Non-degree Student?

- Guest students from another institution who want to take classes over summer or winter break and then transfer them back to their current institution
- Students who are taking prerequisites to get into a graduate program or professional school (ex: medical school, law school, etc.)
- Students who already have a bachelor's degree and want to complete an undergraduate certificate program at UWM. Please also contact the department – a certificate program application may be required in addition to the non-degree university application
- Students who want to take some courses at UWM for personal or professional enrichment but do not want an undergraduate degree from UWM. You can either audit the courses (lower cost – no credit, no grades) or you can take courses for credit (transcribed and can be used towards a degree)

**60+ Auditors or Disabled Auditors:** Request information by calling 414-229-2222 or emailing [undergraduateadmissions@uwm.edu](mailto:undergraduateadmissions@uwm.edu).

### Who should not apply as an Undergraduate Non-degree student?

- If you are wanting to receive an undergraduate degree from UWM you should apply as a degree-seeking student. Please review the transfer or new freshmen application process here (<https://apply.wisconsin.edu/>).
- If you are considering graduate school, please meet with the graduate school to talk about required prerequisites prior to applying as an undergraduate non-degree student.

## Non-degree Admission Guidelines

If you have already attended or are currently attending another college or university, then you must be in good financial standing at that institution (not have any past due accounts) to qualify for admission at UWM.

You must have graduated from a recognized high school at least one year prior to the desired semester of enrollment, or be admissible based upon acceptable GED test scores. Exceptions can be made if you are attending another university and can provide a copy of your admissions letter.

In most cases, we will not need your transcripts for admission. No transferable coursework or other credits earned (e.g. via AP or CLEP exam) will be posted to your UWM non-degree student record. Therefore, if you would like to take a course at UWM that requires a prerequisite you have earned elsewhere, you may need to get permission from the department to add the course.

## Non-degree Financial Aid

Non-degree students do not automatically qualify for federal student aid. To qualify for aid at UWM, students need to be enrolled at least half time in an eligible certificate/certification program or be enrolled half time to complete prerequisites for a UWM graduate program. You will complete the Non-degree Enrollment Verification Form and have an advisor in your degree program sign it (not your non-degree advisor.) You can find this form here (<http://uwm.edu/onestop/finances/receiving-financial-aid/non-degree-students/>).

For the latest admissions information, visit our website (<http://uwm.edu/admission/>).

## Information for Out-of-State Students

### Residency

Residency, for tuition purposes, is governed by Wisconsin statute. It is the mutual responsibility of the University and the student to make certain that he or she is correctly classified as a resident or non-resident for tuition purposes. If an error is discovered, the student will be notified that he or she must pay the non-resident portion of the tuition immediately. Students who question their status should contact the Office of Undergraduate Admissions in Mellencamp Hall, Room 212, (414) 229-2222. A student who wishes to appeal the nonresident classification should request a non-residency appeal form prior to the tuition due date for the semester. For more information regarding residency, visit our Out of State admissions (<https://uwm.edu/undergrad-admission/student-type/out-of-state/>) page.

### Minnesota/Wisconsin Reciprocity Agreement

Minnesota residents may be eligible to participate under the Minnesota/Wisconsin Reciprocity Agreement. Students certified under this program pay tuition at a special rate that is less than non-resident tuition. A certification year runs from July 1 through June 30, although degree students are normally certified once during the full duration of their academic career if they remain continuously enrolled.

Persons not certified by the date on which fees are due will be required to pay non-resident tuition and fees. The appropriate amount will then be refunded upon certification by the State of Minnesota Office of Higher Education Reciprocity Program. For more information, contact the State of Minnesota Office of Higher Education (<http://www.ohe.state.mn.us/mPg.cfm?pageID=97>), 1450 Energy Park Dr., Suite 350, St. Paul, MN 55108, (651) 642-0567, or (800) 657-3866.

### Tuition Discounts for Midwest Residents

UWM offers a special Non-Resident Midwest tuition rate, which is available to students who meet the criteria and are residents of Illinois, Indiana, Iowa, Kansas, Michigan, Missouri, Nebraska, North Dakota, Ohio and South Dakota. Midwest Tuition applies to all on-campus associate, bachelor's and graduate programs. Non-degree students from an eligible midwest tuition state who meet the criteria are also eligible for this tuition rate.

Find more information on the Midwest Residence cost and financial aid (<https://uwm.edu/cost-aid/#tab-tuition-midwest-residents>)page.

### Milwaukee Advantage Program (MAP)

Illinois students are eligible to receive an additional \$1,000 award each year (\$500/semester) through the Milwaukee Advantage Program (MAP).

Beginning in Fall 2021, Minnesota students will also be eligible to receive the MAP award. The MAP award is renewable.

- MAP will be offered at both fall/spring terms.
- Must be enrolled full time in order to be eligible. Falling below full-time status will result in cancellation of award.

## Special Admission Programs for Students Still Enrolled in High School

The High School Special Program and the Early College Credit Program are designed to allow qualified high school students to enroll in university courses concurrently with high school classes. Applicants must generally have a 3.5 or above GPA. For further information, contact your high school guidance counselor or the UWM Office of Undergraduate Admissions at (414) 229-2222. You also may review the information on our Dual Enrollment (<https://uwm.edu/academicaffairs/dual-enrollment/>) website.

## Course Placement

All incoming freshmen admitted to UW-Milwaukee are **required** to complete steps to place them into their math and English courses. Students are placed into math and English courses based on either their ACT/SAT scores or by completing both Panther Math Prep and the Guided English Placement. International students can use their TOEFL or IELTS scores for placement into their English courses. Students are placed into French, German, and Spanish foreign language courses via the UW System World Languages placement test. Placement into any other foreign language is based on previous coursework and/or the UWM World Languages Self Assessment Tool. Placement into chemistry courses is determined by a combination of math placement level and previous chemistry coursework, and students in Chemistry 102 are required to take a chemistry placement test during the first week of their chemistry class. Placement methodologies help to ensure that students are placed into the appropriate level of study to maximize success. Incoming freshmen must ensure they have taken the appropriate steps to determine course placement before they are allowed to attend their New Student Orientation session where they will enroll in classes. Transfer students and re-entry students may be required to submit ACT/SAT scores or complete assessments depending on previous coursework and intended degree plan. Transfer and re-entry students should check with their advisor to determine if they need to complete any steps for course placement.

More information on course placement (<https://uwm.edu/onestop/enrolling/before-you-enroll/#placement>) can be found on our One Stop Enrollment and Financial Services site.

## Contact Information

### Office of Undergraduate Admissions

Lubar Entrepreneurship Center & UWM Welcome Center  
2100 Kenwood Blvd  
Milwaukee, WI 53211

<http://uwm.edu/admission/>

## Graduate Admission

### Master's and Doctoral

You must meet Graduate School and specific program requirements for admission. Please navigate to the Graduate School website (<http://uwm.edu/graduateschool/admission/>) to see the Master's and Doctoral graduate school admission requirements. Refer to the program for its specific admission requirements.

Please be aware of recommended and required deadlines (<http://uwm.edu/graduateschool/program-deadlines/>). We recommend applying at least one year in advance of the term you wish to start.

## Graduate Certificate

A certificate program is a sequence of courses that provides specialized knowledge and skills for personal enrichment, professional advancement, or career change. Certificate programs may provide:

- A basic introduction to an established field of study.
- An interdisciplinary approach linking several fields.
- A concentrated focus on a sub-field.

You must meet Graduate School and specific certificate program requirements for admission. Please go to the Graduate School website (<http://uwm.edu/graduateschool/certificate-admission/>) to see the graduate school admission requirements. Refer to the certificate program for its specific admission requirements.

Please be aware of recommended and required deadlines (<http://uwm.edu/graduateschool/program-deadlines/>). We recommend applying at least one year in advance of the term you wish to start.

## Non-Degree

This admission category (also referred to as Graduate Special) allows you to take courses for graduate credit without pursuing a degree. Acceptance as an NDC does not guarantee admission to a graduate degree program.

Some programs have a minimum undergraduate grade point average for NDC admission. In addition, there are limits to the number of NDC credits that can be considered for transfer to a degree program (see Master's Requirements ([http://uwm.edu/graduateschool/masters-requirements/#credit\\_transfers](http://uwm.edu/graduateschool/masters-requirements/#credit_transfers)) for transferring credits to a master's program and Doctoral Requirements ([http://uwm.edu/graduateschool/doctoral-requirements/#transfer\\_credit](http://uwm.edu/graduateschool/doctoral-requirements/#transfer_credit)) for transferring credits to a doctoral program).

NDC students are usually not eligible for financial aid. Check with the Financial Aid Office regarding your particular situation. International applicants need to contact the Center for International Education (<http://www4.uwm.edu/cie/>) for additional NDC requirements.

You must meet Graduate School and specific program requirements for admission. Please go to the Graduate School website (<http://uwm.edu/graduateschool/non-degree-admission/>) to see the graduate school admission requirements. Please contact the specific program for their Non-Degree admission requirements.

## Off-Campus

The Off Campus application is for graduate students not pursuing a degree or certificate program and are interested in participating in face-to-face or hybrid classes being offered somewhere other than the UWM main campus. Certain professional development courses or special programs may also be offered through the Off Campus application.

A bachelor's degree is required for admission.

You must apply for Off-Campus admission using the Panthera Graduate School Application (<https://graduateschool-apply.uwm.edu/>). Look for the **Off Campus Application** link at the bottom of the left menu on the application home page.

## Re-entering Admission

If you plan to return to your graduate program after an absence of two or more semesters (excluding summer and UWinterIM sessions), you must apply to re-enter the Graduate School.

Please refer to the Graduate School website (<http://uwm.edu/graduateschool/re-entering-graduate-school/>) to determine if you meet the Re-Entry admission requirements prior to submitting an application.

## International Admission

### International Student Admission

UWM's Center for International Education processes applications for students with significant education from outside the U.S., and any student who requires a student visa to study at UWM. Application requirements are located on the Center for International Education website (<http://uwm.edu/cie/international-admissions/application-requirements/>).

### Contact Information

#### Center for International Education

Garland Hall, Room 138

[uwm.edu/cie/international-admissions/](http://uwm.edu/cie/international-admissions/) (<http://uwm.edu/cie/international-admissions/>)

## Tuition and Fees

Please visit UWM's Student Financial Services website (<https://uwm.edu/finances/>) for the most up-to-date information on the following:

- Tuition/Fee Schedules (<http://uwm.edu/onestop/finances/estimating-your-costs/tuition/>)
- Cost Calculators (<http://uwm.edu/onestop/finances/estimating-your-costs/uwm-total-cost-estimator/>)
- Billing, Payment Plans, and Refunds (<http://uwm.edu/onestop/finances/billing-and-payment/>)
- Office of Student Accounts Policies and Procedures (<http://uwm.edu/onestop/finances/bursars-office-policies-procedures/>)

### Contact Information

#### Student Financial Services

Mellencamp Hall, Room 162

[uwm.edu/finances](http://uwm.edu/finances/) (<http://uwm.edu/finances/>)

## Aid and Scholarships

Most students (and their families) need to use a combination of tools to help finance their college education. Information to help you with all your financing questions can be found on the UWM Student Financial Services (<http://uwm.edu/finances/>) website. This includes information on:

- Financial Aid Process (<http://uwm.edu/onestop/finances/receiving-financial-aid/>)

- Scholarships (<http://uwm.edu/onestop/finances/types-of-financial-aid/scholarships/>), Grants (<http://uwm.edu/onestop/finances/types-of-financial-aid/grants-and-waivers/>), and Loans (<http://uwm.edu/onestop/finances/loans/>)
- Military Education Benefits (<http://uwm.edu/onestop/finances/veterans-services/>)
- Work-Study and Student Employment (<http://uwm.edu/onestop/finances/work-study-student-employment/>)

Other resources include tools to develop a budget, determine the most recent costs, and sign up for the installment plan. You will also find the contact information for all departments in Student Financial Services which includes the Office of Financial Aid Administration, Office of Student Accounts, Office of Student Scholarships, and Student Financial Service Center. Please feel free to contact our staff for help with any questions you may have. You can also use our Virtual agent, Ask Pounce (<https://uwm.edu/onestop/finances/ask-pounce/>), for answers to many of the most common questions we receive.

### Contact Information

#### Student Financial Services

Mellencamp Hall, Room 162

[uwm.edu/finances](http://uwm.edu/finances/) (<http://uwm.edu/finances/>)

# POLICIES

This catalog includes academic policies, procedures, programs, courses, and requirements in effect at the time of publication. The University faculty and administration reserve the right to make changes in these regulations; some of these changes may affect students' programs. Efforts will be made to publicize all changes, but it is the responsibility of students to ascertain the requirements of their programs at all times.

- Undergraduate Policies (p. 22)
- Graduate Policies (p. 31)

## Undergraduate Policies

### Degree Requirements

#### Bachelor's Degree Requirements

All bachelor's degree programs at the University of Wisconsin-Milwaukee are subject to the following requirements. The catalog text for the program should refer to or contain these requirements, but they still apply even if it does not. Students should consult individual program pages in this catalog for the specific degree requirements associated with each program or major.

1. Residence Credit Requirement: At minimum, 30 of the 120 credits earned for the bachelor's degree must be completed "in residence", that is, via credits earned from the institution itself regardless of class modality. Individual programs may impose additional requirements, for example, the last 30 credits must be earned in residence, or some larger number, though not necessarily the last block.
2. Credits: Student must complete at least 120 credits. Individual programs may require more.
3. Minimum GPA: Students must attain at least a 2.000 cumulative GPA. Individual programs may require a higher GPA on all credits, or all credits in the major, or specific courses, etc.
4. University GERs: Students must satisfy the UWM General Education Requirements (p. 30).
5. Other requirements: Students must meet the graduation requirements of their major and school or college.

#### Associate Degree Requirements

The requirements for the Associate degree can be found on the Liberal Arts, AAS (p. 694) catalog page.

#### Concurrent Degrees

The University offers an Associate of Arts and Sciences degree (AAS) and the following distinct bachelor's degrees:

- Bachelor of Architecture (BArch)
- Bachelor of Arts (BA)
- Bachelor of Business Administration (BBA)
- Bachelor of Fine Arts (BFA)
- Bachelor of Science (BS)
- Bachelor of Science in Engineering (BSE)

#### Earning Two Bachelor's Degrees Concurrently

Students may earn more than one bachelor's degree by completing the graduation requirements for both degrees, including a major appropriate to each degree. The two bachelor's degrees earned must have different

degree designations (i.e., BA, BBA, BFA, BS, and BSE). In meeting degree requirements, the student must complete an additional 30 credits in residence for the second degree (for a minimum of 150 credits). The same General Education Requirements may be used to satisfy both degree requirements if appropriate. Schools and colleges may make exceptions to the above policy. The flexible option degree-completion program is not available as a concurrent degree. Students earning more than one credential in the same degree will have multiple majors. They will not earn multiple degrees. Students should consult their school/college for more information on multiple majors in the same degree, including minimum credit requirements.

#### Earning A Second Bachelor's Degree After Graduation

Students who have earned a first bachelor's degree from UW-Milwaukee may earn a second, distinct bachelor's degree by completing a minimum of 30 additional undergraduate credits in residence subsequent to the awarding of the first degree and by satisfying all major requirements for the second degree. Students seeking an additional major or minor in the same degree designation after having already earned that bachelor's degree from UW-Milwaukee may do so by fulfilling the requirements of the relevant college/school. Post-bachelor's activity is recorded on their academic transcript, and the subsequent credential is recorded at the time of completion. Students with a bachelor's degree from any other accredited institution who wish to subsequently earn a bachelor's degree from UW-Milwaukee must complete a minimum of 30 additional undergraduate credits in residence at UW-Milwaukee. Transfer students must complete the requirements of the UW-Milwaukee major and have a minimum of 150 earned degree credits in total between the two degrees. Not all degrees are eligible for completion as a second bachelor's degree. Students should consult the school/college to confirm eligibility. It is within the purview of the school/college to determine if credits from a prior bachelor's degree can be used in part to complete an additional credential, such as a certificate, as part of the second bachelor's degree. Credit residency rules may also apply.

#### Additional Information

All students earning two bachelor's degrees need to apply and be admitted to the school/college for both degrees. They will also apply separately for graduation for each degree and pay separate graduation fees for each degree. Students cannot earn more than one associate degree either concurrently or post-graduation.

### Requirement Term

Students follow the requirements outlined in the academic catalog according to the term of their admission. For students entering UW-Milwaukee in Fall 2025 or later:

1. Students who wish to opt into a different requirement term must receive the approval of their school/college via a signed request form. If new school/college requirements compel students to change their requirement term, the school/college must receive signed consent from the student.
2. The requirement term for re-entry students will be that of the most recent term of admission. Students may appeal to their school/college to revert back to a prior requirement term.

### Class Standing/Level in School

Prerequisites for certain courses are determined by class standing. The chart below presents the number of credits for the different class standings.

Class Standing	Number of Credits Earned
Sophomore	24-55
Junior	56-85
Senior	86 or more

The prerequisite given in the course listing refers to the qualifications and/or standing needed to enroll in a given course. If no prerequisite is listed, the course is generally open to all students. If more than one prerequisite is listed, all are necessary unless a choice is clearly indicated. A student who enrolls in a course without the required prerequisites may be dropped.

## Course Load

A full course load for undergraduates is considered to be a minimum of 12 credits. This definition may differ from that of the Veterans Administration, the Selective Service System, or other agencies. UWM assumes no responsibilities in this connection.

## Grading System

UWM uses a letter grade system that includes "plus" and "minus" grades and is based on a 4.000 scale. For convenience in computing averages, each letter grade carries a specified number of points per credit. The scale of grades and points follows:

Grade	(Points per credit)
A	(4.000) Excellent
A-	(3.670)
B+	(3.330)
B	(3.000) Good
B-	(2.670)
C+	(2.330)
C	(2.000) Fair
C-	(1.670)
D+	(1.330)
D	(1.000) Poor
D-	(0.670)
F (0-16)	(0.000) Fail

In addition, students may be allowed to take a limited number of courses on a "Credit/No Credit" basis, and may enroll on an "Audit" basis in courses for which they do not wish to obtain college credit. The following symbols are used where grade points are not involved:

Symbol	Description
I or EI	Incomplete
S	Satisfactory
U	Unsatisfactory
P	Progress
PR	Progress (Flexible Option only)
Credit	C- or above (credit/no credit courses only)
No Credit	Below C- (credit/no credit courses only)
NC	Not completed (audit courses only)
Not Rptd	Grade was not submitted in time to be reported

W	Course dropped by student after fourth week of semester or first quarter of shorter session
WR	Administrative drop (enrollment in course violates permitted number of repeats)
#W	Administrative drop (enrollment in course violates permitted number of repeats), effective March 2002
R	Repeat course (counts in GPA)
#	Repeat course (does not count in GPA)

Instructors of competency sets offered through the UW Flexible Option at UW-Milwaukee may assign a grade of PR ("Progress") for students who successfully complete at least one but not all competency assessments within the set. The PR grade will be a final grade that signifies the enrollment counts as a course attempt for repeat purposes. The PR grade does not award any earned credit or GPA value. The PR grade may only be awarded for the initial attempt of a competency set.

## F Grades – Additional Information

When reporting a grade of F, instructors also will report a number corresponding to the student's "week of last participation" in the course. This is the last week of the term for which there is documented evidence of the student's participation in the course. A student receiving the grade of F0 would, therefore, be one who never attended or participated, whereas a student grade of F16 would signify completion of the entire term. The numeral for "week of last participation" will be reflected on unofficial transcripts and grade reports. On official transcripts, only the grade of F will be reflected.

## Grade Point Average

The number of grade points earned in a course is computed by multiplying the points for the grade by the number of credits offered for the course. (Example: A B earned in a three-credit course would give you nine grade points.)

The general quality of a student's work is expressed in terms of the grade point average (GPA). This is the total number of grade points earned divided by the total number of GPA credits. The highest possible average is 4.000 or an A in every subject.

The UWM grade point average recorded on your official transcript is based solely upon credits earned or attempted at UWM on a regular graded basis. Even though you may receive credits for coursework taken elsewhere, such transfer credits are not counted as part of the GPA at UWM. Some schools and colleges have different standards for GPA calculation and may include transfer work for admission or graduation; see degree requirements within each school/college for specifics. Credits granted by examination or UWM credits taken on an audit or credit/no credit grading basis also are excluded from the official UWM grade point average.

Credits transferred internally between curricular tracks within the University of Wisconsin - Milwaukee will carry grade point value and count as UWM credit for repeat purposes.

If you are returning to UWM and have not previously earned your undergraduate degree, your cumulative GPA will continue from your last point of enrollment. If you have previously earned your undergraduate

degree, you should apply as a "Second Degree" student. Your credits and GPA will start over with the courses you take upon your return, and your original record cannot be altered.

## Academic Drop and Probation Policy

**Academic Probation:** Imposed on students whose cumulative GPA falls below 2.000. The student on academic probation whose semester GPA is 2.000 or better, but whose cumulative GPA remains below 2.000, is permitted to continue on academic probation.

**Cleared Probation:** Achieved when cumulative GPA increases to 2.000 or above.

**Dropped for One Semester:** Imposed on any student on academic probation who fails to earn a semester GPA of 2.000.

**Final Probation:** Applies to a student who is permitted to enroll after any drop action. The student on final probation whose semester GPA is 2.000 or better, but whose cumulative GPA remains below 2.000, is permitted to continue on final academic probation.

**Dropped for Two Years:** Imposed on any student on final probation who fails to achieve a semester and cumulative GPA of 2.000 or better.

1. A student with a cumulative GPA (grade point average) of 2.0 or higher is in good academic standing.
2. A student whose cumulative GPA falls below 2.0 is placed on academic probation. A student on academic probation whose cumulative GPA remains below 2.0 but whose semester GPA is 2.0 or above remains on academic probation. A student on academic probation earning a semester GPA below 2.0, is dropped for one semester. A student on academic probation clears probation and returns to good academic standing when a cumulative GPA of 2.0 or better is achieved.
3. A dropped student may appeal to be reinstated or readmitted as laid out below. A reinstated or readmitted student is placed on final probation.
  - a. A student may appeal to be reinstated immediately after a drop action. They must appeal to the dean or a designee of the school, college, or academic unit to which they belonged when the drop action was earned.
  - b. A student may apply for readmission after sitting out the required drop period. After their drop period has elapsed, they re-enter the program from which they were dropped.
  - c. A student who chooses to change their program after sitting out their drop period may only do so with the permission of the dean or a designee of their new program.
  - d. A student who chooses to change from a bachelor's degree program to an associate degree program after sitting out their drop period can do so without permission.
  - e. A student who has been dropped from a bachelor's program may appeal to the administrative unit that is in charge of associate's degrees for immediate reinstatement to the associate program. They do not need permission from the school, college, or academic unit to which they belonged when the drop action was earned.
4. A student on final probation who fails to achieve a semester GPA of 2.0 or better is dropped for two years. A student on final probation whose cumulative GPA remains below 2.0 but whose semester GPA is 2.0 or above remains on final probation. A student on final probation clears final probation and returns to

good academic standing when a cumulative GPA of 2.0 or better is achieved.

## Academic Renewal Eligibility

To qualify for academic renewal, a former degree candidate must:

1. Not have graduated from UW-Milwaukee or have earned a baccalaureate degree or associate degree from any other institution.
2. Not have been enrolled at UW-Milwaukee for two consecutive years.
3. Be readmitted to UW-Milwaukee as a degree-seeking student, and
4. Have a cumulative grade-point average (GPA) below a 2.0 at the time of readmission.

## Explanations and Restrictions

1. The "Academic Renewal Period" comprises all academic work completed at UW-Milwaukee prior to the two-year period of no enrollment.
2. After readmission, students must earn a GPA of 2.5 or higher in the first 12 earned credits at UW-Milwaukee BEFORE applying for academic renewal.
3. Academic renewal does not adjust the GPA and number of credits attempted and counted toward Satisfactory Academic Progress for financial aid.
4. All other University policies (for example, the UW-Milwaukee Repeat Policy) remain in effect and are not changed by the granting of academic renewal.
5. To be eligible for a bachelor's degree, students must complete a minimum of 30 credits at UW-Milwaukee after the granting of academic renewal. To be eligible for an associate degree, students must complete a minimum of 12 credits at UW-Milwaukee after the granting of academic renewal.
6. If a student seeks admission to a degree program in a school or college other than the one that granted their academic renewal, that school or college has the right to consider all coursework and grades, including those academically forgiven, in making its admission determination.

## Impact on Student's Record

1. A notation in the remarks area of the student's transcript indicates academic renewal. All courses taken and grades earned during the Academic Renewal Period will continue to appear on the student's record, but the grades of all classes taken during the Academic Renewal Period will be excluded from the student's cumulative GPA.
2. All grades earned in courses that were taken during the Academic Renewal Period will be excluded from the student's cumulative GPA. Students may not retain grades earned in some courses within the Academic Renewal Period and have academic renewal applied to others.
3. If academic renewal is granted, credit hours earned during the Academic Renewal Period may be used to satisfy degree requirements even though they are not included in calculating the student's total GPA.

## Repeat Requests

Students may be granted only one academic renewal.



More information on applying for academic renewal can be found in the Academic Actions (<https://uwm.edu/onestop/your-student-record/grades/>) section of One Stop.

## Incompletes

An incomplete may be given to an undergraduate who has carried a subject successfully until near the end of the semester but, because of illness or other unusual and substantiated cause beyond that student's control, has been unable to take or complete the final examination or to complete some limited amount of term work. An incomplete is not given unless the student proves to the instructor that s/he was prevented from completing course requirements for just cause as indicated above.

A course marked incomplete must be completed during the next succeeding semester, excluding summer sessions and UWinterim. If the student does not remove the incomplete during this period, the report of "I" will lapse to "F". With approval of the instructor, additional time may be granted through a request to the instructor for an Extended Incomplete ("EI"), including cases where the "I" lapsed to "F". The determination to assign an "EI" grade is at the sole discretion of the instructor or, if an instructor cannot be contacted, the department chair. The "EI" grade will lapse to "F" after one calendar year unless a final grade is awarded or another extension is requested by the instructor or department.

Incomplete ("I") or Extended Incomplete ("EI") courses may not be used to satisfy degree requirements. Incomplete ("I") or Extended Incomplete ("EI") courses will be converted to Permanent Incomplete ("PI") prior to degree posting if not required for graduation. The PI does not change the impact of the "F" grade on the student's record. It is equivalent to earning the lapsed "F" grade in terms of how it affects the student's GPA and GPA credits.

Schools/Colleges may have stricter requirements. Please contact your academic advisor to confirm the requirements for your academic program.

## Overloads

Students enrolling in more than the maximum credit load will be assessed extra tuition above the normal full-time rate. A student must obtain approval for an overload in the office of their academic dean. The maximum credit load for undergraduates for Fall and Spring registration is 18 credits in all schools and colleges, except Fine Arts (18 credits or three studio courses). For Summer enrollment, the limit is 12 credits during the full term duration, but no more than four credits during any session less than or equal to four weeks. The UWinterim enrollment limit is three credits.

## Repeating Courses

Unless a restriction is stated in the *Schedule of Classes*, undergraduates may repeat a course only once, and only the higher of the two grades will be calculated into the grade point average (GPA). Both attempts will appear on the student's transcript. Only two attempts are allowed for the same or equivalent course at and across any undergraduate career level (associate, bachelors, and Flex programs) before permission is needed for the third attempt. For students in a Flex program, a PR grade and a subsequent enrollment in the same course are considered two attempts.

If the UWM course repeats a course for which the student received transfer credit, only the UWM course will be calculated into the GPA, regardless of grade. Both attempts will be shown on the transcript. Once a bachelor's degree has been earned, the academic career (credits, GPA,

and coursework) starts over with any subsequent enrollment and the original record cannot be altered. Courses taken after the bachelor's degree has been earned do not count as repeats of courses taken prior to the posting of the degree.

A student will not be permitted to repeat any course more than once without the prior approval of the student's school/college advising office. Further restrictions apply. More information at [uwm.edu/onestop](https://uwm.edu/onestop) (<https://uwm.edu/onestop/enrolling/before-you-enroll/>). The single repeat limit also applies to courses taken for audit or credit/no credit.

**Note:** Exceptions to this policy are variable-topic courses, which may be taken for credit as often as permitted for that particular course, as specified in the *Schedule of Classes*. A variable-topic course may count as a repeat of a previously taken course only if the topic is identical to that of the student's earlier enrollment and the repeat occurs within the same academic career.

Students who took a course as a repeat prior to fall 1988 are entitled to one additional enrollment. Transfer students who did not previously take a course at UWM are entitled to one repeat at UWM of a course taken at a previous institution.

In courses of limited enrollment, students who have not taken the course previously have priority over students who are repeating the course. Individual schools and colleges may adopt stricter criteria. It is generally advisable for any student to consult an advisor before registering to repeat a course.

If you have previously earned your degree from UWM, your attempted and earned credits as well as your cumulative GPA will start over with the courses you take in pursuit of your second degree. Courses taken as part of your first degree will not be considered repeats. Your original record cannot be altered.

## Graduation

Students must meet the graduation requirements of their school or college, which includes notifying the advising office in the school or college of their intent to graduate at least one semester prior to graduation. Generally, students may begin to apply for May Commencement in mid-November, and December Commencement in mid-April. To apply for graduation, log in to PAWS (<https://paws.uwm.edu/psp/saprod/?cmd=login>). From the "Academics" section of your Student Center, click on the "Other Academic" drop-down box, select "Apply for Graduation," and click on the double arrows to proceed to the application.

Commencement exercises are held in either May or December. Students who graduate at the end of the summer sessions participate in May Commencement. Students who graduate at the end of the UWinterim session participate in December Commencement. Attendance at Commencement is optional.

Commencement Honors are listed on each applicable Undergraduate program page.

## Credit/No Credit Option

To be granted credit for a course for which you have registered credit/no credit (C/NC), you must earn a grade of C- or better. Consult the table below to determine whether you may enroll for courses on a credit/no credit basis. Courses **may not** be taken credit/no credit if they are to

be used to satisfy the GER English and mathematics competencies or awarding of final honors.

College or School	Credit/No Credit Policy
<b>Architecture and Urban Planning</b>	Pre-Architecture students and upper-level students with a 2.500 cumulative GPA may take one course per semester as credit/no credit up to a maximum of eight courses. Elective courses other than the 48 credits required for the Architectural Studies degree qualify.
<b>The Arts</b>	Undergraduates in The Arts may take one course per semester as credit/no credit up to a maximum of eight courses. Core curriculum courses outside of the student's major subject area qualify. Students should see their advisor for details.
<b>Business</b>	Undergraduates in the Lubar College of Business may take one course per semester as credit/no credit up to a maximum of eight courses. No Business course may be taken on a C/NC basis unless it is only offered on a C/NC basis. Business students may not take courses used to complete the Business Foundations: COMMUN 103, COMMUN 105, ECON 103, ECON 104, MATH 208, or MATH 211 on a C/NC basis.
<b>Education</b>	Undergraduates in Education and Pre-Education should see their advisor.
<b>Engineering and Applied Science</b>	Only free elective and GER courses may be taken as credit/no credit. Undergraduates in Engineering and Applied Science may take no more than 3 credits in any one semester as credit/no credit up to a maximum of 12 credits.
<b>General Studies</b>	Undergraduates in the Associate career may take a maximum of four courses as credit/no credit. The credits will be counted toward total degree credits earned but will not affect a student's grade point average. Only courses outside of the core writing and math requirements and the breadth requirements of the Associate degree qualify.
<b>Honors College</b>	Credit/no credit is not allowed for Honors courses.

<b>Information Studies</b>	Undergraduates in Information Science and Technology may take one course per semester as credit/no credit up to a maximum of eight courses. All non-Information Studies (courses outside the School of Information Studies) that are not required as part of the student's major qualify.
<b>Letters and Science</b>	Only courses outside the major, minor and certificate allowed. Students may enroll in one eligible course per semester as credit/no credit up to a maximum of eight courses.
<b>Nursing</b>	Undergraduates in Nursing may take one course per semester as credit/no credit up to a maximum of eight courses. Courses must be non-clinical electives in Nursing.
<b>Public Health</b>	Undergraduates enrolled in the Public Health, Kinesiology and Nutritional Sciences programs should consult with their academic advisor for the latest policy.
<b>Social Welfare</b>	Undergraduate majors and pre-majors in Social Work and Criminal Justice and Criminology may take one course per semester as credit/no credit up to a maximum of eight courses. Credit/no credit may only be used in courses outside the 54-65 credit requirements in the Social Work or Criminal Justice and Criminology major.

University Special Students should contact an advisor in the the Office of Undergraduate Admissions (<http://uwm.edu/undergrad-admission/>). Off-campus students should contact the appropriate program coordinator.

Some courses are offered on a C/NC basis only. These may be taken in addition to the above limits. C/NC courses are not counted in the GPA, but courses in which credit is earned will count toward graduation. Courses may be changed from a regular graded basis to C/NC or vice versa only during the same period as courses may be added. Only one such change may be made per semester per course.

## Accommodation of Religious Beliefs

1. A student shall be permitted to make up an examination or other academic requirement at another time or by an alternative method, without any prejudicial effect, where:
  - a. There is a scheduling conflict between the student's sincerely held religious beliefs and taking the examination or meeting the academic requirements; and
  - b. The student has notified the instructor, within the first three weeks of the beginning of classes (within the first week of summer session and short courses), of the specific days or dates on which they will request relief from an examination or academic requirement.

2. Instructors may schedule a make-up examination or other academic requirement before or after the regularly scheduled examination or other academic requirement.
3. Instructors shall accept, at face value, the sincerity of students' religious beliefs.
4. Student notification of instructors and requests for relief under sub. (1) shall be kept confidential.
5. Complaints of failure to provide reasonable accommodation of a student's sincerely held religious beliefs as required by this rule may be filed under SAAP 5-1 Discriminatory Conduct and Consensual Relationships Policy (<https://apps.uwm.edu/secu-policies/storage/other/SAAP%205-1.%20Discriminatory%20Conduct%20Policy.pdf>).

## Students Called to Military Service

Students called into active military service should contact the Military Educational Benefits Office for more information, Mellencamp Hall 168, (414) 229-5699, or visit the website (<https://www4.uwm.edu/mebo/>).

The University of Wisconsin-Milwaukee is an equal opportunity, affirmative action institution, and does not discriminate on the basis of race, sex, color, creed, national origin, disability, or any other protected status recognized by Wisconsin or federal law. In 1990, s. 36.12, Wisconsin Statutes, was enacted, which provides as follows: No student may be denied admission to, participation in, or the benefits of, or discriminated against in any service, program, course, or facility of the (UW) System or its institutions or centers because of the student's race, color, creed, religion, sex, national origin, disability, ancestry, age, sexual orientation, pregnancy, marital status, or parental status.

University policies also prohibit harassment or retaliation against complainants on any of these bases. These policies are in compliance with all relevant Wisconsin and federal laws, rules, and regulations.

Questions about the application of any of these policies, or complaints about violations, may be directed to the appropriate admitting or employing office, or to the campus Office of Equity and Diversity Services, Mitchell Hall, Room 359, or phone (414) 229-5923.

An information booklet on the UWM Disciplinary Guidelines and the appropriate sections of the Wisconsin Administrative Code covering conduct on University lands and student disciplinary procedures is available in the lobby of Mellencamp Hall and in several offices, including the Office of the Dean of Students, Mellencamp Hall, Room 118. Board of Regents rules require adherence by students and others present on the campus. Failure to comply with these rules may subject students to disciplinary action and to civil forfeitures. State of Wisconsin Statutes and Federal Law also apply on the campus of the University.

Under the provision of the Family Educational Rights and Privacy Act of 1974, a student is entitled to review the education records related to the student that the University maintains. A student may request a hearing regarding any alleged inaccurate, misleading, or inappropriate information contained in the record.

The University may not disclose information from a student's record to a third party unless the student gives consent, or unless permitted to do so by the Family Educational Rights and Privacy Act of 1974. A student may contact the Undergraduate Records Office or the Office of the Dean of Students, both in Mellencamp Hall, for further information.

You may restrict the release of your address and phone number and other limited information by checking a box on your registration form. If you do this, your address and phone number will not appear on most mailing

lists used by UWM student organizations, campus departments, or on mailing lists obtained from UWM by non-University groups.

The various academic units at UWM have set up appeals and grievance procedures. Students may avail themselves of these procedures by contacting a department chair, the dean's office of the school or college from which the course was taken, or the Office of the Dean of Students.

## UWM Equal Opportunity Policy

It is the policy of the University of Wisconsin-Milwaukee to provide equal opportunity and prohibit discrimination and harassment for its employees and students in all programs, activities, and employment. UWM is committed to actively implement all federal and state equal opportunity and affirmative action laws, executive orders, policies, plans, rules, and regulations.

UWM's Discriminatory Conduct Policy (Including Sexual Harassment) (S-47) defines discrimination as conduct that

1. adversely affects any aspect of an individual's employment, education, or participation in activities or programs at UWM; and
2. is based on one or more characteristics of the individual that are protected under federal, state, or local laws.

Characteristics that are protected under federal, state, or local law (protected statuses) may include age; ancestry; arrest or conviction record; color; disability; gender identity/expression; identity as a veteran, disabled veteran, or Vietnam veteran; marital status; membership in the National Guard, state defense force, or any other reserve component of the military forces of the United States or this state; national origin; pregnancy; political affiliation; race; religion; sex; sexual orientation; or use of lawful products off the premises during non-working hours (e.g., smoking cigarettes).

Harassment is a form of prohibited discrimination. UWM defines harassment as conduct that

1. is of any type (oral, written, graphic, or physical);
2. is directed towards or against a person because of the person's protected status (as listed above); and
3. unreasonably interferes with the individual's work, education, or participation in activities or programs at UWM, or creates a working or learning environment that a reasonable person would find threatening or intimidating.

Sexual harassment includes unwanted sexual advances, requests for sexual favors, and other verbal and physical conduct of a sexual nature.

Speech or expressive behavior (e.g., use of visual, recorded, or written materials) used in the context of an instructional setting may be found to constitute harassment only if the speech is persistent, pervasive, and not germane to the subject matter, or so singularly severe as to create a hostile environment. Protected Expressive Behavior in an instructional situation is explained in UWM Selected Academic and Administrative Policies No. S-44, Public Expression of Opinion.

In addition, the University prohibits retaliation against individuals who engage in protected activities under the policy. Retaliation is defined as employment or academic decisions that are made because a student, employee, or applicant for employment has made a complaint, assisted with or served as a witness in an investigation, or instituted proceedings alleging discrimination.

UWM maintains a written affirmative action plan in order to meet its commitment to the principles of equal opportunity and affirmative action. The plan is available to all persons for inspection and is on reserve in the University Library and on UWM's website.

To protect the rights of employees and students, numerous grievance procedures have been developed on this campus. Although all grievants are encouraged to resolve complaints by working with the relevant parties and administrators, inquiries involving complaints of discrimination or harassment based on protected class status may be directed to the UWM Office of Equity and Diversity Services, Mitchell Hall 359, (414) 229-5923.

## Hate/Bias Incident Reporting

In the last few years, there has been an increased focus on the reporting of hate- and bias-motivated incidents on university campuses across the nation. UWM defines a hate- or bias-motivated incident as any disruptive conduct (oral, written, graphic, or physical) that is against an individual, or individuals, because of their actual, or perceived, race, color, national origin/ancestry, religion, sex, age, disability, sexual orientation, gender identity/expression, veteran and National Guard status, marital status, pregnancy, political affiliation, or arrest/conviction record. If you believe the incident involves criminal conduct, please call 911 or 9-911 (UWM campus police) from a UWM phone, in addition to completing the Hate/Bias Incident Reporting Form (<https://www4.uwm.edu/eds/hatebias/form/?a1=edit>). You may use this form to report any hate/bias incident that has occurred

1. on UWM property, buildings, or housing; and/or
2. at UWM-sponsored events or activities, regardless of location.

## University Policies and Programs Concerning Illicit Drugs and Alcohol

Consistent with the federal Drug Free Schools and Communities Act, the University of Wisconsin-Milwaukee (UWM) maintains a comprehensive alcohol and other drug abuse prevention program. This includes interventions that target at-risk individuals, programs that target the student body as a whole, and environmental-level strategies that impact the college and surrounding community. UWM prohibits the unlawful possession, use, distribution, manufacture, or dispensing of illicit drugs and alcohol on university property or as part of university activities. Each semester, students receive information that describes pertinent laws, rules, and sanctions, as well as the health effects of abuse, and a list of treatment resources.

### Please Note:

For the latest enrollment information, check online at our One Stop Enrollment and Financial Services (<https://uwm.edu/onestop/enrolling/before-you-enroll/>) site.

## Eligibility to Enroll

You can find more information on enrollment eligibility (<https://uwm.edu/onestop/enrolling/before-you-enroll/>) at UWM's One Stop site.

Enrollment is the process of signing up for classes, which is typically completed electronically in PAWS (<https://paws.uwm.edu/psp/saprod/?cmd=login>). Continuing students are generally able to enroll in classes as long as these requirements are met:

- Enrollment in classes at UWM within the past two fall/spring terms (if not, an application for re-entry to UWM (<http://uwm.edu/undergrad-admission/student-type/re-entry/>) must be submitted)
- An application for graduation was not submitted for the current semester (if so, the Registrar's Office (<https://uwm.edu/registrar/>) must be contacted to postpone graduation or an application must be submitted for a new program to pursue after graduation)
- No Holds (<https://uwm.edu/onestop/enrolling/before-you-enroll/>) exist in PAWS (<https://paws.uwm.edu/>) (view Hold details in PAWS)

**New students must be officially admitted in order to be eligible to enroll. New freshmen enroll during** New Student Orientation (<https://uwm.edu/studentsuccess/newstudentorientation/>).

For more information about the application and admission processes, see the Admission section (p. 15) of this catalog.

## Academic Advising Prior to Enrollment

All students are assigned an academic advisor upon admission to UWM and all new freshmen must meet with their advisor before they will be permitted to enroll for their first term. Academic advising prior to enrollment is strongly encouraged for all students.

These requirements are subject to change. If you are unsure of the requirements for your particular program, or do not know who your academic advisor is, consult your school/college advising office ([https://uwm.edu/academicaffairs/academic\\_priorities/student-success/academic-advising-at-uwm/](https://uwm.edu/academicaffairs/academic_priorities/student-success/academic-advising-at-uwm/)).

## Enrollment Procedures and Deadlines

The initial enrollment cycle begins in October for the winter term, November for the spring term, March for the summer term, and April for the fall term. The *Schedule of Classes* may be viewed online.

Continuing students are assigned enrollment appointment times that can be viewed on PAWS. Enrollment appointments indicate the first opportunity to enroll online using PAWS after priority enrollment begins. New and re-entering students will receive enrollment information as soon as appropriate after admission. New freshmen enroll as part of New Student Orientation (<http://uwm.edu/studentorientation/>).

Students are assigned an "earliest possible" enrollment date and time based on their level and total earned credits within their level (e.g., graduate student, senior, junior, sophomore, freshman, special/non-degree student). More information on enrollment appointments (<https://uwm.edu/onestop/enrolling/before-you-enroll/>) can be found at One Stop.

Details about the enrollment process, deadlines for a particular term, and penalties for late enrollment are described at One Stop (<https://uwm.edu/onestop/enrolling/before-you-enroll/>). Please ensure that you are taking advantage of your earliest opportunity to enroll, as well as complying with necessary procedures and deadlines.

## Priority Enrollment Appointments

The following student populations have been granted priority in assigned enrollment appointments, applicable to continuing and transfer students:

- Military veterans\*
- Honors College students
- Student Athletes
- Student Dance/Cheer Team members
- Students approved for priority enrollment through the Accessibility Resource Center (<http://uwm.edu/arc/>).

\* Student veterans can be approved for priority enrollment once verified by the Military Education Benefits Office (<http://uwm.edu/onestop/finances/veterans-services/>).

Priority Enrollment Appointments are assigned beginning the first hour of the first day of each semester's enrollment period.

## Change of Enrollment/Add and Drop or Withdrawal from Classes

After initial enrollment, students have the opportunity to modify their class schedule by adding, dropping, or withdrawing from classes during specific periods prior to the start of the semester. Such changes can be made without financial penalty until the start of the term (or before the start of a particular summer session). However, significant financial penalties can apply for changes made beyond the appropriate deadline, and some departments have unique deadlines and approval requirements governing how and when students may add and drop particular courses. Some academic programs also require their students to obtain specific approval for adding or dropping courses. Consult the Interactive Add/Drop Calendar (<http://uwm.edu/onestop/dates-and-deadlines/interactive-adddrop-calendar/>) and Important Dates by Term (<http://uwm.edu/onestop/dates-and-deadlines/important-dates-by-term/>) for dates, deadlines, and procedures.

## Late Enrollment and Late Payment Fees

Additional fees and penalties will be assessed of students who enroll after published deadlines or who pay their fee/tuition assessments late. Consult the Interactive Add/Drop Calendar (<http://uwm.edu/onestop/dates-and-deadlines/interactive-adddrop-calendar/>) and Important Dates by Term (<http://uwm.edu/onestop/dates-and-deadlines/important-dates-by-term/>) in order to avoid these penalties.

## Concurrent Enrollment

Undergraduate students may enroll in coursework outside of the curricular track associated with their degree program with approval from their academic dean.

Students wishing to enroll concurrently at UWM and at another college or university may do so only with the advance approval of their UWM school/college advising office.

Students enrolled part time at more than one UW campus normally pay fees separately to each campus. Students enrolled full time at one campus and part time at another generally pay full-time tuition at their full-time campus and only segregated fees at the part-time campus. However, some specialized programs or courses with special class fees may require payment above the full-time fee rate. Contact the Registrar's Office (<https://uwm.edu/registrar/contact-us/>) for additional details.

## ID Cards

UW System regulations require that each student have a picture ID card. This card is used to verify student status and eligibility for participation or service. Students are expected to obtain their ID during their first

semester at UWM. Should should obtain their ID card at their home campus. ID cards may be obtained at the Milwaukee campus in the PantherCard Office, Union W198. ID cards may be obtained in the Library on each respective campus of the College of General Studies.

If you are enrolled only in online courses and wish to obtain an ID card verifying your affiliation with UWM, go to [uwm.edu/onestop](http://uwm.edu/onestop) (<http://uwm.edu/onestop/>) for more information.

## Program Integrity

Pursuant to the U.S. Department of Education's Program Integrity Rule, the University of Wisconsin-Milwaukee is required to provide all prospective and current students with the contact information of the state agency or agencies that handle complaints against postsecondary educational institutions offering distance learning or correspondence education within that state. Students are encouraged to utilize the institution's internal complaint or review policies and procedures through the Dean of Students Office (<http://uwm.edu/deanofstudents/assistance/complaints-and-grievances/>) (414-229-4632) or Office of the Provost (<https://uwm.edu/academicaffairs/>) (414-229-3203) prior to filing a complaint with the state agency or agencies. If no resolution is reached, then the student may file a complaint with the Wisconsin Distance Learning Authorization Board (DLAB) through the following State Authorization Reciprocity Complaint Process at the following link: <https://www.wisconsin.edu/student-complaints/> or by email to [afgp@uwsa.edu](mailto:afgp@uwsa.edu).

## Associate Degree General Education Breadth Categories

### Arts and Humanities (A & HU)

Students must acquire knowledge of ideas, beliefs, and abiding concerns pertaining to the human condition as represented in literature, philosophy and cultural history. They must acquire a level of aesthetic appreciation of the human imagination as expressed in the fine arts, and appreciation of the impact of the arts upon the quality and character of human life. Courses listed as meeting the A or HU GER requirements in the Catalog and Schedule of Classes may apply to this breadth category.

### Mathematical and Natural Sciences (MS & NS)

Students must know of the nature and workings of the physical universe. They must understand scientific method, the functions of numerical data and the solving of problems through mathematical and statistical computations, as well as the application of the scientific method in laboratory and experimental work. For this, an appropriate level of computer literacy is required. Students must also be aware of environmental conditions and challenges, the interrelationships of lifeforms and ecosystems, and the impact of human activities upon natural environments. Courses listed as meeting the MS or NS GER requirements in the Catalog and Schedule of Classes may apply to this breadth category.

### Social Sciences (SS)

Students must understand the nature and dynamics of human social systems and how and why people organize their lives and resources. In doing so, students will learn about both their own and diverse cultures to acquire a historical perspective on long-term characteristics and consequences of social change and an informed understanding of the variety of human conditions and the interrelationships of nations, regions, peoples and individuals. Courses listed as meeting the SS GER

requirements in the Catalog and Schedule of Classes may apply to this breadth category.

## Cultural Diversity (CD)

Students must become aware of and sensitive to diversity issues and problems. Courses fulfilling this requirement will have a substantial emphasis on cultural diversity within the United States and examine these issues from at least one of the following perspectives: African American, Hispanic/Latino, Asian American, and American Indian topics. Courses listed as meeting the CD GER requirements in the Catalog and Schedule of Classes may apply to this breadth category.

## Applied Scholarship (AS)

Students must engage with academic material in a manner that is different from what is typical in a first or second-year college course. Students must spend significant time on purposeful tasks, receive and respond to substantial feedback, and engage in interaction with instructors and other students. A course can be designated as AS by fulfilling the requirements of one of the following categories: Writing Emphasis, Undergraduate Research, Global Learning Opportunities, Service Learning, Internships, or Integrated Studies. Courses listed as meeting the AS GER requirements in the Catalog and Schedule of Classes may apply to this breadth category.

# Bachelor's Degree General Education Requirements

The General Education Requirements are intended to give structure to each student's education while providing the student the greatest possible freedom to design an individual academic program. These requirements include two major categories, competency and distribution.

The **competency requirements** are designed to assure basic proficiency in oral and written communication, quantitative literacy, and foreign language. The GER Quantitative Literacy Part A and Oral and Written Communications Part A requirements should be completed early in the academic career to ensure acquisition of critical skills for subsequent coursework. Many UWM schools/colleges require completion of Part A of those competencies prior to advancing to the professional portion of the major. Completion of the relevant Part A competency is also a prerequisite for some intermediate and advanced courses. The **distribution requirements** are designed to provide students with a broad body of knowledge in the areas of the arts, humanities, natural sciences, and social sciences as a foundation for specialization.

Specific GER requirements are as follows:

## Competency Requirements

### Oral and Written Communication (OWC) Competency

#### OWC Part A

Completion of OWC Part A can be demonstrated by satisfying one of the following options:

1. earning at least three credits with a grade of C or higher in ENGLISH 102<sup>1</sup>; or
2. transferring at least three credits with a grade of C or higher in a course equivalent to ENGLISH 102 or higher level expository writing course<sup>1</sup>; or
3. achieving an appropriate score on the English Placement or other appropriate test, as determined by the English Department.

### OWC Part B

The OWC Part B is satisfied by completing an approved advanced course (at least three credits) with a significant written or oral communication component by students who have completed the Part A requirement.

Courses that count toward the OWC Part B requirement may be offered in a variety of disciplines and students are encouraged to choose the course that matches their interests and helps them best meet the requirements of their degrees.

## Quantitative Literacy (QL) Competency

### QL Part A

Completion of QL Part A can be demonstrated by satisfying one of the following options:

1. earning at least three credits with a grade of C or higher in MATH 102, MATH 103 (formerly 106), MATH 105, MATH 108, MATH 111/PHILOS 111, MATH 115, MATH 116, MATH 175, or equivalent courses<sup>1</sup>; or
2. achieving a placement level of at least 30 on a mathematics placement test or other appropriate test as determined by the Mathematical Sciences Department.

### QL Part B

The QL Part B is satisfied by completing at least one approved QL Part B course (at least three credits) as decided by the major. QL Part B courses make significant use of quantitative tools in the context of other course material.

<sup>1</sup> *These courses may not be taken credit/no credit if they are to be used to satisfy the OWC Part A requirement or QL Part A requirement.*

## Language Requirement

Based on the UWM mission's commitment to global and intercultural engagement, UWM requires that students demonstrate competency in a language other than English equivalent to completion of one year of college-level instruction.

Completion of the language requirement can be demonstrated by satisfying one of the following options:

1. Prior to enrollment at UWM, complete with a passing grade at least the second year of high school-level instruction in a single language other than English; or
2. complete the second semester or higher of college-level instruction in a language other than English with a passing grade; or
3. demonstrate ability at the level of completion of the second semester or higher of college-level language other than English by means of a satisfactory score on an approved proficiency, departmental, or other appropriate examination; or
4. document satisfactory completion of the equivalent of two years of study at a secondary institution OR two semesters of study at a post-secondary institution where the language of instruction is other than English; or
5. satisfy the APCC-approved alternative GER Language Requirement, if any, stipulated by the student's particular degree program.

Completion of the Language Requirement is a prerequisite for graduation.

## Distribution Requirements

Courses taken for distribution provide the general educational background for each student. The distribution requirements comprise course choices from the following knowledge areas:

- **The Arts.** Three credits in a course in the history, philosophy, theory, or practice of the creative and interpretive arts (e.g., visual arts, dance, music, and theatre).
- **The Humanities.** A total of 6 credits in at least two courses.
- **The Natural Sciences.** A total of 6 credits in at least two courses. At least one course must include laboratory or field experience illustrating the generation and testing of data and the application of concepts and knowledge to the solution of problems.
- **The Social Sciences.** A total of 6 credits in at least two courses.
- **Cultural Diversity.** All UWM students who are subject to the GER (and entered UWM in fall 1989 or later) must complete, as part of their distribution requirements, 3 credits pertaining to the study of the life experiences of African Americans, Latino/Hispanic Americans, American Indians, or Asian Americans.

GER Standard Distribution courses for specific semesters may be found online at [uwm.edu/schedule/](http://www4.uwm.edu/schedule/) (<http://www4.uwm.edu/schedule/>). Individual schools and colleges may have limitations on what GER courses from other schools and colleges can be counted; students should check with their advisor.

### Exceptions to GER

Students who entered UWM as freshmen and/or earned transferable credit as a college student prior to September 2013 are not responsible for the Oral and Written Communication Part B or the Quantitative Literacy Part B.

Students who entered UWM as freshmen and/or earned transferable credit as a college student prior to September 1999 are not responsible for the GER foreign language competency. However, individual schools and colleges may require completion of higher-level foreign language courses; students are strongly encouraged to check with their advisors and/or review their Academic Requirements report on PAWS.

In general, second degree candidates from an accredited institution and students whose first semester in a degree program at an accredited institution predates September 1986 are not subject to the General Education Requirements.

All degree programs have specific requirements beyond GER. Consult with an academic advisor to design an appropriate course of study.

## Graduate Policies

### Academic Leave of Absence (ALA)

The University of Wisconsin-Milwaukee (UWM) Graduate School's Academic Leave of Absence (ALA) policy ([https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/09/UWM-Graduate-Academic-Leave-of-Absence-Emergency-Accommodation\\_2020-05-05.pdf](https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/09/UWM-Graduate-Academic-Leave-of-Absence-Emergency-Accommodation_2020-05-05.pdf)) allows graduate students to temporarily suspend pursuit of their degree goals in order to take care of certain life events. The policy may be most useful for dissertators subject to the continuous registration requirement, but it can stop the clock on time limit to degree for all students in doctoral, master's, and certificate

programs. The main goal of the ALA policy is to facilitate retention to graduation, without unduly prolonging time to degree.

### Add/Drop Policy

You may add or drop courses after the stated deadline only under extraordinary circumstances not related to academic performance. You must complete a Graduate School Request for Exception Form (<https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/03/RFE-fillable-form.pdf>). If you request a drop for medical reasons, you must supply documentation from a physician. Such add/drops require approval of your instructor, your graduate program unit, and the Graduate School.

Courses dropped after the fourth week of classes remain on your record and are noted on transcripts with the W (Withdrawal) symbol.

Refer to the Registrar's Office Website (<https://uwm.edu/registrar/>) for Add/Drop (Change of Registration) instructions (<https://uwm.edu/registrar/students/enrolling/adding-dropping-and-changing-classes/>) and deadlines.

### Appealing Academic Decisions

See Appeals, Grievances, and Exception Requests (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/appeals-and-exceptions/>).

### Audit Courses

You do not receive a grade or earn graduate credit for audited courses. Auditors usually attend a course for the information available, generally without the commitment to carry out the assignments required for a grade. During the first week of classes, check with your instructor for the attendance and coursework standards expected of auditors. Some courses cannot be audited.

Auditing a course has additional consequences for financial aid, maximum credit load and fellowship purposes. Please see specific sections regarding these items.

### Change of Degree Program

If you decide to change from one degree program to another, you must submit a new Degree Application to the Graduate School.

#### Pursuing two programs at one time

Unless you are enrolled in a formally approved coordinated degree program, you may not work toward two UWM graduate degrees at the same time. If you are admitted to a second degree program before receiving a graduate degree in the first program, you are considered to have formally withdrawn from the first program and are no longer eligible for the degree in the first program.

### Continuation

Your continuation in the Graduate School is at the discretion of the Graduate School, the student's graduate program unit and the major professor. The minimum graduation GPA requirement is a cumulative 3.0 (4.0 basis) or better in all work taken toward the degree.

#### Academic Warning

You will receive an academic warning if your semester grade point average falls below 3.0.

#### Graduate Dean's Approval Required to Continue

You will receive a “Graduate Dean’s Approval Required to Continue” if your cumulative grade point average falls below 3.0.

- If your semester GPA and cumulative GPA are both below 3.0, the Graduate Dean’s Approval Required to Continue will take precedence over an Academic Warning. You will be prevented from further registration unless you petition the Graduate School and receive a positive recommendation from your graduate program unit.

#### Academic Dismissal

The graduate program unit may recommend that you be academically dismissed for poor academic performance, lack of progress toward degree, or failure to meet graduate faculty policy or program requirements. The Graduate School, in consultation with the graduate program, may also initiate a dismissal for these reasons. In all cases, the Dean of the Graduate School makes the final decision regarding academic dismissal.

Recommendation for dismissal may be initiated for, but is not limited to, the following:

- A cumulative graduate grade point average below 3.0.
- Failing the doctoral preliminary examination.
- Failing the dissertation defense.
- Failing to have the doctoral dissertation accepted within the time period specified for deferral status (reverts to failed dissertation defense).
- Failing to successfully defend the doctoral dissertation upon a second attempt within the specified time period.
- Exceeding the time limit for degree completion.
- Accumulating U grades in thesis or dissertation courses.

## Courses

#### Undergraduate/graduate

The courses listed for each graduate program in the Bulletin have been approved for graduate credit. Some 300-699 courses carry a U/G credit designation, meaning they have been approved to be offered for both undergraduate and graduate credit. To receive graduate credit, you must have graduate status and meet the special graduate student requirements indicated by the instructor on the syllabus. However, in any given semester a U/G course might be offered for undergraduate credit only. U/G courses being offered for graduate credit are designated with a “G” appended to the course number. You will not receive graduate credit for any course that is not offered for graduate credit or for any U/G course for which you did not register as a graduate student.

#### Graduate

All 700-999 courses carry a G credit designation, meaning they have been approved to be offered for graduate credit only. You must have current graduate status to be eligible to earn graduate credit in these courses. Students in other classifications must obtain the instructor’s approval to enroll in G courses.

## Credit/No Credit Basis

You may not register for a course on a credit/no credit basis, except when a course is offered only for credit/no credit. (By definition, a grade of C- or above is required to receive credit under this type of registration.)

You can check your grades and other academic information on the PAWS Website (<http://paws.uwm.edu/>).

## Credit Requirements

Credit requirement information can be found on the Graduate School website under Master’s Requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/masters-resources/masters-requirements/>) and Doctoral Requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>). Recipients of Graduate School-administered awards or assistantships should refer to Financing Your Education (<https://uwm.edu/graduateschool/students/financial-support/>).

## Dean

Your dean is Mark Harris and he serves in the capacity of Vice Provost for Research and Dean of the Graduate School; Interim Dean, College of Health Sciences; Professor, Department of Geosciences.

## Exceptions to Graduate School Policy

Exceptions to Graduate School academic policies and procedures may be granted (except in the case of credit overload) if the student and his or her graduate program representative are able to show that circumstances beyond the student’s control—illness, family emergency, etc.—prevented the student from complying with the policies. (Ignorance of the rules is not an acceptable reason to request an exception.)

Requests for exceptions must be submitted on a Graduate School Request for Exception Form (<https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/03/RFE-fillable-form.pdf>) prior to the semester in which the rule or requirement applies, if at all possible.

Listed below are common types of exception requests, and the required elements and supporting signature for each type.

### Credit Overload

The maximum credit load for graduate students is 12 credits. Audited courses, Sport and Recreation courses, and zero-credit colloquium/seminar courses are excluded from the total credit count.

Requests to carry an overload will be considered if the student has a strong academic record and no outstanding incompletes. The request must be supported by the student’s advisor as well as the graduate program representative.

### Dean’s Approval Required to Continue

A graduate student will receive a Graduate Dean’s Approval Required to Continue action if any of the following conditions exist:

- The student’s cumulative grade point average falls below 3.0
- The student is not removed from probation status within three enrolled semesters
- The student does not satisfy course deficiencies within three enrolled semesters.

This action precludes registration for a subsequent semester.

To receive permission to register following this action, students must demonstrate academic improvement and must show that factors that led to the placement of the Graduate Dean’s Approval Required to Continue have been negated. The request must include a program of study for the following semester and must be supported by the graduate program representative and the student’s advisor.



## Extension of Time Limit

The master's degree must be completed in five years for programs requiring 30 or fewer credits. For master's programs requiring more than 30 credits, the time limit is seven years. This includes capstone requirements such as a successful thesis defense or passing a comprehensive exam.

The doctoral degree must be completed within ten years of initial enrollment in a doctoral program at UWM. This includes successful completion of all coursework, internships, examinations, the dissertation and the dissertation defense.

For students entering doctoral program in the fall of 2000 and later, doctoral preliminary examinations must be passed within five years of initial enrollment.

Requests for extending time limits must include all of the following:

1. An explanation for the delay
2. An explanation of how the factors that caused the delay have been resolved, or what steps are being taken to prevent further delays
3. A schedule for completion of the degree, including anticipated semester of graduation. Master's students writing a thesis and all doctoral students requesting time limit extensions should address the following as appropriate:
  - Is literature review complete?
  - Is data collection complete?
  - Is data analysis complete?
  - Number of chapters written
  - Number of chapters read by Major Professor
  - Tentative defense date
4. A supporting statement from the Major Professor verifying progress-to-date

The request also must be supported by the graduate program representative.

## Late Add/Registration

Student should state whether he or she has been attending class(es). Instructors should verify attendance or confirm that the student may successfully join the class at this time. A completed Change of Registration form, signed by the course instructor(s), should accompany the Graduate School Request for Exception Form (<https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/03/RFE-fillable-form.pdf>). If the exception is approved, the student is responsible for all late fees in addition to the tuition payment.

## Late Drop/Withdrawal (Past the Deadline)

This type of request will be considered only for reasons unrelated to academic performance. A completed Change of Registration form, signed by the course instructor (for drops), or a completed withdrawal form should accompany the Request for Exception form. In either case, the course instructor(s) should verify successful completion of course requirements to date. The request also must be supported by the graduate program representative.

## Re-entry After Five-Year Absence

Students who want to re-enter a graduate degree program following a 5 year (or greater) absence must be able to demonstrate retention of knowledge from previous coursework taken for the degree. Additionally, instructors must verify that the course content has not changed

significantly since the student completed the coursework. Students should list remaining course and degree requirements (e.g., thesis) to be completed for the degree and a timetable for completion. The request must be supported by the student's advisor, who must verify that the timetable is reasonable, and the graduate program representative.

## Other Policy Exceptions

For guidance on required elements to support other types of exceptions, contact the Assistant Dean of Graduate Education at 414-229-6569.

## Full-Time Enrollment

Graduate students enrolled for a minimum of 8 credits per semester or 6 credits during a summer session are considered full time, with the exceptions described below. (Fellowship recipients see Fellowship Compliance.)

UWM teaching and project assistants who are employed for one-third (33%) time or more must enroll for a minimum of 6 credits per semester. They are considered full-time with this minimum enrollment. The Graduate School and/or graduate program unit reserves the option to require a higher credit minimum for those who hold Graduate School awards (see Financial Assistance)

During the semester that you are preparing for doctoral prelims, you may enroll for a minimum of 1 graduate credit and still be considered full time for financial aid or grant purposes. This status is available for one semester only, and does not fulfill residence requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/#a16>). To request this option, you must have already submitted your Application for the Doctoral Preliminary Examination.

Doctoral students (including teaching, research, and project assistants) who have reached dissertator status are required to carry 3 dissertator credits.

## Grade Definitions and Requirements

Grades with associated grade points

Grade	(Points per credit)
A	4.00
A-	3.67
B+	3.33
B	3.00
B-	2.67
C+	2.33
C	2.00
C-	1.67
D+	1.33
D	1.00
D-	0.67
F+, F	0.00

Grade Definitions

- **A:** Superior work
- **B:** Satisfactory, but undistinguished work
- **C:** Work below the standard expected of graduate students
- **D/F:** Unsatisfactory work

### Grades without associated grade points

- **K:** Pass
- **E:** Fail
- **S:** Satisfactory
- **U:** Unsatisfactory

### Other course status designations

- **I:** Incomplete
- **PI:** Permanent Incomplete
- **Credit:** C- or above in credit/no credit course
- **No Credit:** Below C- in a credit/no credit course
- **NC:** Not Completed (audit courses only)
- **P:** Progress
- **W:** Withdrawal
- **WR:** Administrative drop (enrollment in course violates permitted number of repeats)

Grades or course status outcomes of **D+**, **D**, **D-**, **F+**, **F**, **E**, **I**, **PI**, **NC**, **U**, **W**, and **WR** may not be used toward meeting degree requirements.

The **P** course status designation must be converted to a grade upon the completion of the course requirements.

#### **S and U grades**

**S** and **U** are the only valid grades for master's capstone courses, master's theses, doctoral dissertation courses, and courses for which students register on an audit basis.

## Holds (Service Indicators)

A hold may be placed on your record for the following reasons:

- An unpaid debt to the University.
- Failure to maintain continuous registration (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/#a5>) (dissertators only).
- Failure to show proof of insurance (international students only).
- Official transcript required for admission not received.
- Administrative obligation.

A hold on your record prohibits you from registering for classes, obtaining transcripts, or receiving your diploma. In addition, international students with holds cannot have non-immigrant papers processed by the Center for International Education (CIE).

You can check for holds on your record using the PAWS Website (<http://paws.uwm.edu/>).

## Incomplete Policy

An **I** (Incomplete) may be assigned by the instructor if you are unable to finish all the course requirements during the original semester of enrollment. An Incomplete course status designation is appropriate only when the following conditions are present:

1. You have done satisfactory work in a substantial fraction of the course requirements prior to grading time and provide the instructor with evidence of potential success in the remaining work.
2. Extraordinary circumstances, not related to performance in the class, such as illness or a family emergency, have prevented you from finishing the course requirements on time.

An Incomplete will not be given to enable you to do additional work to improve a grade. The instructor may deny a request for an Incomplete and assign a grade based on the work completed at that point.

It is your responsibility to initiate a request for an Incomplete. Reasons for requesting the Incomplete must be acceptable to the instructor. If approved, the instructor will indicate the conditions for the removal of the Incomplete, including the date for submitting all remaining work. You are responsible for seeing that the Incomplete is removed by the deadline and that the instructor has reported the grade to the Graduate School.

The instructor may change the **I** to a grade (including an **F**) or to a **PI** (Permanent Incomplete) if the remaining work is not submitted by the deadline for completion.

#### **Permanent Incomplete**

If you do not complete the remaining work within one year of the end of the term of original registration for the course, the Incomplete will be administratively changed to a Permanent Incomplete (**PI**). (A **PI** is not computed into the grade point average.). The **PI** will remain on your record, except in cases where you completed the work, but the instructor failed to file a grade change in time.

If you wish to receive credit for a course in which a you received a not completed, you must register for the course again and satisfy the requirements for the course as set forth under the second registration. You may not register for a course in which an **I** remains on record.

You may graduate with a course status of **PI** if all degree requirements have been met. All Incompletes must be changed to grades or **PIs** before you may graduate.

## Major Professor as Advisor

You must have a major professor from your chosen graduate program unit. Many graduate program units assign a temporary advisor to direct the entering student's work.

The major professor advises on courses and graduate faculty requirements and supervises research. For the master's candidate, the major professor is chair of the master's thesis committee, if a thesis is required. For the doctoral candidate, the major professor serves as the chair of the dissertation committee and of the committee hearing the dissertation defense. All major professors must be members of the UWM Graduate Faculty. Doctoral advisors require approval by the doctoral program unit and the Graduate School.

## Maximum/Minimum Credit Load

You may not register for more than 12 credits in a semester or 9 credits in the eight-week summer session or a total of 12 credits in all sessions between the end of Semester II and the beginning of Semester I. Audit, sport/recreation, and colloquium seminar credits are not counted when determining a graduate student's credit load; undergraduate credits are counted.

## Midwest Student Exchange Program (MSEP)

The Midwest Student Exchange Program (MSEP) is a multi-state tuition reciprocity program that makes attending out-of-state colleges and universities more affordable for non-resident students.

## Minimum Credit Load

Every student who uses University resources must be enrolled at UWM. Minimum registration is 1 credit per semester or summer. If you are a doctoral student with dissertator status, see Doctoral Dissertator Enrollment (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/#a5>) on the Doctoral Requirements page.

A student undertaking research and/or working on a project, paper, or thesis enrolls at UWM according to the amount of time required for the investigation as determined by the instructor and the major professor. You must be registered during the semester in which your degree is awarded.

## Minnesota/Wisconsin Reciprocity Agreement

### Special Note to Minnesota Residents:

A tuition reciprocity agreement exists between Wisconsin and Minnesota. This agreement stipulates that residents of Minnesota can attend Wisconsin institutions in approved programs and be assessed the approved reciprocity tuition rate, plus segregated fees assessed to all students. If you wish to take advantage of the Minnesota-Wisconsin Tuition Reciprocity Agreement (<http://www.ohe.state.mn.us/mPg.cfm?pageID=97>), you should apply for certification as a Minnesota resident to:

State of Minnesota Office of Higher Education Reciprocity Program  
1450 Energy Park Drive, Suite 350  
St. Paul, MN 55108-5227  
651-355-0613 or 800-657-3866  
[www.ohe.state.mn.us](http://www.ohe.state.mn.us) (<http://www.ohe.state.mn.us/>)

You may also contact the UWM Office of the Registrar at (414) 229-3796. A certification year runs from July 1 through June 30.

If you are not certified by the date fees are due, you must pay non-resident tuition and fees; the appropriate amount will be refunded upon certification by the Minnesota Office of Higher Education.

## Minor: Option A (Doctoral Students)

You may supplement the doctoral program by completing a minimum of 8 credits in residence at UWM in a different graduate program, or a different transcript-designated concentration within your program. The minor must be approved by both your program advisor and the graduate representative in the minor program and identified on your program of study. Option A minors are identified on your transcript. You may not earn a graduate certificate and a Minor Option A using the same courses.

## Overloads

Requests to exceed the maximum credit load are considered under the following circumstances:

- You are taking undergraduate certification coursework.
- You are making up deficiencies.
- You have exceptional circumstances resulting in special hardship.

You must have a cumulative GPA of 3.0 and no outstanding incompletes to be considered for overload approval. You must submit a Request for Exception Form (<https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/03/RFE-fillable-form.pdf>) along with recommendations

from your major professor and your graduate program representative explaining the reasons and justification for the exception. To be considered, your exception request must be submitted to Graduate Student Services before the enrollment period of the semester in question.

If you enroll for more than the maximum credit load without permission, courses will be dropped to reduce your course load to the maximum allowed.

Only individual student requests are reviewed. Overload requests for groups of students are not considered.

## Permanent Incomplete

See **Incomplete Policy** above.

## Re-entering the Graduate School

If you plan to return to your graduate program after an absence of two or more semesters (excluding summer and UWinterIM sessions), you must apply to re-enter. Following are requirements for re-entering students:

- Completion of a semester's work within the past five years.
- A cumulative graduate GPA of 3.0.
- Clearance of academic and administrative holds.
- Being within the time limit for degree completion.
- You may also need the approval of your graduate program unit. Check with your unit about its re-entry requirements.

You can apply via the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>). A \$25 processing fee is required for re-entry.

## Repeating Courses

You are allowed to repeat a course once in which a grade of B- or lower was earned. Both attempts appear on your transcript and both grades are calculated in the graduate grade point average. Only one attempt may be counted toward meeting degree requirements.

## Time Limit – Master's

If your master's program requires 30 credits or fewer, you must complete all degree requirements within five years of your first enrollment in the program. If your program requires over 30 credits, you must complete all requirements within seven years. Some programs may have shorter time limits.

## Time Limit – Doctoral

All requirements for the doctoral degree must be completed within 10 years of the date you first enrolled in a doctoral program at UWM. This includes all coursework, the dissertation, and examinations required for the degree. Some programs may have shorter time limits. If you entered your doctoral program in the fall semester of 2000 or after, you have five years from your semester of entry to pass the preliminary examination.

## Transcripts

Official graduate transcripts and unofficial copies can be obtained in Mitchell 261 or by completing and submitting an official Transcript Request form. To request a copy of your official transcripts complete the online form (<https://www.credentials-inc.com/CGI-BIN/dvcgitp.pgm?ALUMTROG03896>) and follow the guidelines outlined below.

There is a \$12 fee for official transcripts sent through the mail.

To request an unofficial copy of your transcripts download the unofficial transcript request form (<https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/03/transcript-request-form.pdf>) and mail it to the address listed on the form. You can also view your unofficial transcripts through PAWS by following the guidelines below.

## Guidelines

1. Official transcripts are now ordered online (<https://www.credentials-inc.com/CGI-BIN/dvcgitp.pgm?ALUMTROG03896>).
2. Transcript requests must come from the student/former student. Requests from a third party will be processed only with written permission from the student/former student.
3. Due to FERPA regulations, the Graduate School cannot send unofficial transcripts electronically.
4. To request unofficial transcript by mail, send completed form.
5. Transcripts will be withheld if any obligations to the University have not been satisfied.
6. Make checks payable to "UWM." UWM does not accept credit card information by fax.

Please call (414) 229-6569 for more information.

## Viewing Unofficial Transcripts Through PAWS

Current students may access unofficial transcripts via PAWS. Directions are as follows:

1. Log into PAWS (<https://paws.uwm.edu/psp/saprod/?cmd=login&languageCd=ENG&>).
2. Under **Academics**, navigate to the dropdown menu.
3. Select **Transcript: View Unofficial**.
4. Click on the arrow next to dropdown menu 5. Under type, select **Graduate Transcript**.
5. Click **Submit Transcript Request**.
6. Check your UWM e-mail for a PDF of your transcript.

## Winter Session

UWinteriM is a three-week session held during winter break. A schedule of classes is available during the fall semester. The following rules apply to graduate students:

- UWinteriM enrollment does not affect time-to-degree calculations.
- Graduation deadlines for fall, spring, and summer semesters are unaffected by UWinteriM enrollment. If you complete your degree requirements (e.g., thesis/dissertation defense, master's comprehensive exam, final course) during UWinteriM, you will graduate in May, but will not have to register during the spring semester.
- UWinteriM classes cannot satisfy enrollment requirements for graduate assistants (RA, TA, PA) or graduate school fellows. Students with teaching assistantships during UWinteriM are not required to register for UWinteriM classes.
- You may not register for more than three credits during UWinteriM.

## Withdrawal

Withdrawal is the formal termination of a student's complete registration in all courses for the semester. To simply stop attending classes does not constitute a withdrawal. Withdrawals are not accepted by telephone. You

must fill out a withdrawal form or send a letter by certified mail to give notice to the Graduate School of the withdrawal. The postmark date or the date the withdrawal form is received by the Graduate School becomes the effective date. This date determines the amount of fee/tuition that will be assessed. Check the UWM Website (<https://uwm.edu/registrar/dates-deadlines/>) for withdrawal deadlines and to determine the effect of withdrawal on your fees.

You may withdraw after the deadline only for reasons other than academic difficulty. You must first submit a Request for Exception (<https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/03/RFE-fillable-form.pdf>) to Graduate Student Services. If you request withdrawal for medical reasons, you must supply documentation from a physician.

Withdrawals will be noted on your transcript. Withdrawals after the fourth week of classes remain on your academic record with the course number and title followed by a W symbol.

# OPPORTUNITIES AND RESOURCES

- Pathway Advising (p. 37)
- UWM Online (p. 37)
- Accelerated Graduate Degrees (p. 37)
- Catalog Glossary (p. 62)

## Pathway Advising

As a temporary home for new freshman students who are undecided about their college major or who are determined through the admission process to need additional support before transitioning into their chosen major, UWM's Pathway Advising will assist students in academic exploration and decision-making, leading to a permanent affiliation with one of UWM's Schools and Colleges by the end of the student's first year. Students in Pathway Advising are empowered and encouraged to form advising relationships, collaborate with faculty and instructional staff, and utilize support services.

Students admitted into Pathway Advising choose one of six exploratory pathways called "metamajors" that allow our students to explore multiple majors that share a general academic theme. Advisors help students select classes in those metamajors that will fulfill both general UWM course requirements and classes that can later count towards the requirements in the students' chosen major(s) and degree plan. Our six metamajors are:

- Arts, Design, & Innovation
- Business, Industry, & Applied Technology
- Engineering & Natural Sciences
- Health
- Humanities & Communication
- Social & Behavioral Sciences

Pathway Advising also provides advising to undecided transfer students entering UWM with fewer than 45 transferable credits and reentry students who were formerly part of the Pathway Advising program or one of its predecessor programs. If you are a transfer or reentry student, please contact the Office of Undergraduate Admissions (<https://uwm.edu/undergrad-admission/>) to determine the appropriate entry option for you.

In addition, Pathway Advising also houses the Student Support Services (SSS) (<https://uwm.edu/student-support-services/>) Program, a TRIO program funded by the U.S. Department of Education. We also serve the academic advising needs of non-degree (<https://uwm.edu/undergrad-admission/student-type/non-degree/>) students.

For more information, please contact Pathway Advising at (414) 229-4696, email us at [pathway-advising@uwm.edu](mailto:pathway-advising@uwm.edu), browse our website (<https://uwm.edu/pathway-advising/>), or visit us in person in Mellencamp Hall, room 128, main campus.

## Continuation into UWM Schools/Colleges

Students admitted into Pathway Advising may progress into a major offered by UWM's Schools and Colleges once they have decided on

a major, are in good academic standing, and have met any entrance requirements set by the receiving program.

## Dean's Honor List

Students in Pathway Advising achieve a "Dean's Honors" designation when they achieve a GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## UWM Online

As Wisconsin's premier urban research university, UW-Milwaukee offers a wide array of online course offerings at the undergraduate and graduate levels that are available to students each semester, plus more than 30 degrees and certificates ([https://catalog.uwm.edu/programs/#filter=filter\\_27](https://catalog.uwm.edu/programs/#filter=filter_27)) that can be earned entirely online.

UWM is a nationally known leader in online education: We were ranked best online college in Wisconsin (<https://thebestschools.org/online-colleges/#WI>) by TheBestSchools.org, and our U-Pace online instructional approach has won six national awards.

Our award-winning faculty – the same professors you'll find leading our classrooms and labs on campus – undergo additional curricular and technology training to make their online instruction as effective as possible. UWM also offers numerous resources designed to ensure your success.

Find more information on the UWM Online web page (<http://uwm.edu/online/>).

## Accelerated Graduate Degrees

### Overview

This page describes accelerated graduate degrees (AGDs) at UWM. For more information see the UWM AGD policy (<https://apps.uwm.edu/secu-policies/storage/faculty/3225R1%20-%20Accelerated%20Graduate%20Degrees%20-%20CLEAN.pdf>). The AGD policy allows high-achieving students to begin graduate-level work before completion of the undergraduate degree and allows programs to share credits between bachelor's and graduate degrees. Programs create a unique AGD with one undergraduate and one graduate degree to prescribe what credits can be shared between the two degrees. This allows students to complete both a bachelor's and graduate degree in an accelerated timeframe.

### Definitions

**Shared Credit:** counting the same course credit for fulfillment of the requirements of both the bachelor's and the graduate degree.

**Forward-Shared Credit:** graduate-level course credit completed as an undergraduate student that, in addition to bachelor's degree credit, is eligible to fulfill graduate degree credit upon student admission to Graduate School. Because forward-shared credits are subject to the Graduate School transfer credit policy, a grade of B or better (B- is not acceptable) is required.

**Backward-Shared Credit:** graduate course credit completed as a graduate student that is eligible to fulfill remaining undergraduate credits in addition to graduate degree credits.

### Degree Requirements

Undergraduates complete at least 120 credits for a bachelor's degree. Graduates complete at least 30 credits for a master's degree, and

substantially more in some graduate programs. Students in an AGD complete the same requirements by sharing graduate-level credits within the prescribed limits to complete both degrees. All graduate-level work requires students to follow graduate academic standards, regardless of when they take the course. Each AGD may share credit differently, and may share credit forward, backward, or both. See AGD Programs (p. 39) for sharing credit details.

## Bachelor's Degree Undergraduate Requirements

Typically, students complete their general education requirements, school or college general requirements, and most of their major requirements prior to beginning any shared credit coursework. Students remain in undergraduate status to complete all required bachelor's degree credits (typically 120, potentially more) minus eligible backward-shared credits. Remaining undergraduate credit requirements fulfilled through backward-shared credits is specified by the program and will be completed as a graduate student.

Individual AGDs may have additional requirements for degree completion (see Programs tab (p. 39)). Some programs do not prescribe to backward-shared credit. In this case, the student would complete all undergraduate requirements and receive their bachelor's degree prior to their first term as a graduate student.

## Forward-Shared Credits

Some AGDs prescribe forward-shared credits so undergraduate students can begin graduate coursework eligible for both their bachelor's and graduate degrees. Undergraduates must meet the minimum GPA requirements for the Graduate School before attempting graduate-level work. Programs provide additional requirements for enrolling in eligible graduate-level coursework. Enrollment in graduate-level coursework during an undergraduate career does not guarantee admission to the Graduate School. All graduate-level work requires completion of graduate academic standards. Students accruing forward-shared credits remain in undergraduate standing, pay undergraduate tuition for graduate-level courses, and are eligible for undergraduate federal financial aid. For a U/G course, students must enroll in and complete the G section in order for it to forward share credit. Because forward-sharing credits are subject to the Graduate School transfer credit policy, a grade of B or better (B- is not acceptable) is required.

## Opting Out of the AGD as an Undergraduate Student

Students in undergraduate status who choose to not pursue a graduate degree may continue with their bachelor's degree and complete any remaining bachelor's degree credits as an undergraduate student. The student will need to decline their acceptance to Graduate School, and alert their graduate program.

## Graduate Degree Graduate School Admission

For AGDs that prescribe backward-shared credits, students will begin Graduate School prior to completing their bachelor's degree. To be considered for admission to the Graduate School prior to completing their bachelor's degree, students must meet UWM Graduate School admission criteria (<https://uwm.edu/graduateschool/admission/>), and any additional standards set by the program, and have completed required bachelor's degree credits minus eligible backward shared credits prior to their first term as a graduate student.

- For example, if the bachelor's degree requires 120 credits and the AGD allows for 15 backward-shared credits, the student must have 105 undergraduate credits before starting their first term as a graduate student.

For AGDs that do not prescribe backward-shared credit, students would have completed their bachelor's degree prior to their first term as a graduate student and still must meet UWM Graduate School admission criteria and any additional standards set by the program.

## Failure to Gain Admission to Graduate School

A student who applies to but is not admitted to the Graduate School as an accelerated graduate student may continue with the bachelor's degree and can reapply for graduate admission after completing the bachelor's degree.

## Graduate Requirements

Once accepted, students begin graduate student status the semester in which they have only backward-shared credits remaining to complete the bachelor's degree. Students carry the same graduate student status as those admitted with a bachelor's degree and are eligible for all graduate student financial assistance, including appointments as TAs, PAs, and RAs. Students pay tuition at the graduate rate. All students completing graduate-level work are subject to the same performance requirements.

*All* accelerated graduate degree students must submit an Accelerated Master's Credit Evaluation Form (<https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/09/Accelerated-Masters-Credit-Evaluation-Form.pdf>) in the first semester of their graduate career, even if they have no forward-shared credits. The Graduate School will evaluate graduate-level work from the undergraduate portion of the AGD or verify that the student has no forward-shared credits.

## Opting Out of the AGD After Starting Graduate School

The Graduate School typically requires a bachelor's degree for admission, but makes an exception to this rule for students in an approved AGD. Graduate students who choose to opt out of their AGD program and have *not yet* completed all bachelor's degree requirements through backward-shared credits no longer maintain graduate student status. These students will alert their graduate program and can opt back into undergraduate student status in order to complete undergraduate coursework and finish their bachelor's degree. If such students have maintained UWM Graduate School enrollment up to that point in time, a re-entry application with Undergraduate Admissions would not be necessary.

## Degree Completion Credit Transfer

### Forward Shared Credit Transfer

AGD students submit an Accelerated Graduate Degree Credit Evaluation Form (<https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/09/Accelerated-Masters-Credit-Evaluation-Form.pdf>) in the first semester of their graduate career. The Graduate School will evaluate graduate-level work from the undergraduate portion of the AGD. Coursework eligibility is determined by the program and subject to UWM Graduate School transfer credit standards. Once forward-shared credits, graduate-level credit has been transferred into the graduate degree, it is available for other forms of shared credit, such as that permitted between graduate degrees and certificates.

## Backward-Shared Credit Transfer

Once students enter graduate status, they are eligible to take backward-shared credit courses. Coursework eligibility is determined by the program. Backward-shared credits will be transferred to the undergraduate transcript once the student completes all required undergraduate credit and applies for graduation.

## Bachelor's Degree

Upon completion of the courses and credits required for the bachelor's degree, the student should apply for graduation in the undergraduate degree program. If a student has discontinued in undergraduate status in PAWS, students must submit an Accelerated Graduate Degree Undergraduate Graduation Notification (<https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/09/Accelerated-Graduate-Undergraduate-Graduation-Form.pdf>) form to the Registrar's Office. In addition, the student must also submit an Accelerated Graduate Degree Credit Evaluation Form (<https://uwm.edu/graduateschool/wp-content/uploads/sites/646/2023/09/Accelerated-Masters-Credit-Evaluation-Form.pdf>); the Registrar's Office will transfer the backward-shared, credits completed in graduate status, into the undergraduate record to facilitate the review of the student for undergraduate degree clearance. Degree clearance procedures at the undergraduate level will follow established procedures once the graduate credit is transferred to the undergraduate record.

## Graduate Degree

Students graduate with the graduate degree when they have completed all requirements in addition to any forward shared credits. This may occur during the same semester when the bachelor's degree is awarded, or in a later semester.

## Programs

Approved AGDs below—listed in alphabetical order by bachelor's degree—involve one UWM undergraduate degree and one UWM graduate degree. Eligible shared credits, undergraduate requirements, and Graduate School admission requirements as defined by the program are listed under each AGD. To view these requirements online, click the ">" next to each degree pair.

### Accounting, BBA (p. 257)/Information Technology Management, MS (p. 295)

This accelerated graduate degree involves the following bachelor's and master's degrees: Accounting, BBA and Information Technology Management, MS. There are six (6) forward-shared credits.

#### Eligible Forward-Shared Courses

Six (6) graduate-level credits taken in undergraduate status may count toward Business and General Elective credits and share forward with the master's degree. Any of the required or elective course options in the Information Technology Management, MS program may be forward-shared. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

#### Undergraduate Requirements

Approved enrollment into graduate level coursework during an undergraduate career does not guarantee admission to graduate school as part of the Accelerated Graduate Degree. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a master's degree.

## Graduate School Admissions Requirements

To be considered for admission into the Graduate School prior to completing their Bachelor's degree, students must meet the minimum criteria for admission established by the Information Technology Management, MS and the UWM Graduate School. Students who meet the minimum Graduate School admissions criteria with a 3.00 cumulative GPA as determined by the Graduate School will be waived from taking the GRE/GMAT and be guaranteed admittance to the Information Technology Management, MS. Those between a 2.75 and 2.99 cumulative GPA as determined by the Graduate School will be required to submit a GRE/GMAT score and will be subject to secondary review by Lubar Information Technology Management faculty.

Opting Out of the AGD as an Undergraduate Student (p. 38)

Opting Out of the AGD After Starting Graduate School (p. 38)

### Anthropology, BA (p. 868)/Anthropology, MS (p. 874)

This accelerated graduate degree involves the following bachelor's and master's degrees: Anthropology BA and Anthropology MS. There are six (6) forward-shared credits and 9 backward-shared credits for a total of 15 shared credits.

#### Eligible Forward-Shared Courses

Students can utilize six credits maximum to forward share. See list below for courses that may be forward shared. These courses must be taken at the graduate (G) level.

#### Eligible Backward-Shared Courses

Students can utilize nine (9) credits maximum to backward share toward the BA in Anthropology.

Note that Core courses (801, 802, and 803) and the Advanced Seminar (763 or 940) cannot be double counted. Classes taken to fulfill Graduate requirements for Method 1, Method 2, Elective 1, Elective 2, Elective 3, and Elective 4 can be shared. See below for the list of approved graduate classes for backward-shared credit.

Code	Title	Credits
<b>Eligible Forward-shared Courses</b>		
ANTHRO 302	Anthropology and Popular Culture	3
ANTHRO 304	Violence and Warfare in Prehistory	3
ANTHRO 305	The Celtic World	3
ANTHRO 306	European Archaeology	3
ANTHRO 307	World Archaeology: Foundations of Civilization	3
ANTHRO 308	Archaeology of North America	3
ANTHRO 309	Archaeology of Central and South America	3
ANTHRO 310	Archaeology of Middle America	3
ANTHRO 311	The World of the Ancient Maya	3
ANTHRO 312	The Past on Tap: The Archaeology of Fermented Beverages	3
ANTHRO 313	Archaeology of the American Southwest	3
ANTHRO 314	American Indian Societies and Cultures	3
ANTHRO 320	Peoples and Cultures of Africa	3
ANTHRO 322	Europe in Anthropological Perspective	3
ANTHRO 325	Japanese Culture and Society	3
ANTHRO 326	Peoples and Cultures of South Asia	3

ANTHRO 335	American Indians of the Southeast	3	ANTHRO 540	Applications of Anthropology	3
ANTHRO 340	Cultures of Online Games and Virtual Worlds	3	ANTHRO 543	Cross-Cultural Study of Religion	3
ANTHRO 349	Seminar in Ethnography and Cultural Processes	3	ANTHRO 560	Introduction to Research Methods in Anthropology	3
ANTHRO 354	Anthropology, Aesthetics, and Art	3	ANTHRO 561	Techniques and Problems in Ethnography	3
ANTHRO 361	Applications in Linguistic Anthropology	3	ANTHRO 562	Techniques and Problems in Archaeology	3
ANTHRO 362	System Failure: Globalization and Language Extinction	3	ANTHRO 565	Seminar in Regional Archaeology:	3
ANTHRO 380	Anthropological Applications of GIS	3	ANTHRO 566	Archaeological Analysis and Report Preparation:	3-6
ANTHRO 400	Human Sociobiology	3	ANTHRO 567	Archaeological Field School	3-6
ANTHRO 401	Primate Populations	3	ANTHRO 568	Introduction to Anthropological Statistics	3
ANTHRO 402	Primate Evolution	3	ANTHRO 570	Issues in Bilingualism	3
ANTHRO 403	The Human Skeleton	3	ANTHRO 649	Ethnography of Institutions	3
ANTHRO 404	Human Biological Variation	3			
ANTHRO 405	Forensic Anthropology	3	<b>Code</b>	<b>Title</b>	<b>Credits</b>
ANTHRO 406	Evolutionary Biology & Human Diseases	3	<b>Eligible Backward-shared Courses</b>		
ANTHRO 407	Neuroanthropology	3	<i>Graduate Electives Options</i>		
ANTHRO 408	Hormones and Behavior	3	Any graduate course with approval from the department Graduate Advisor and the student's MS Advisor.		
ANTHRO 409	Evolution, Religion, and Human Biology	3	<i>Graduate Methods Options</i>		
ANTHRO 420	Power and Ideology in Archaeology	3	ANTHRO 380G	Anthropological Applications of GIS	3
ANTHRO 421	Cities in the Ancient World	3	ANTHRO 403G	The Human Skeleton	3
ANTHRO 424	Ethnoarchaeology and Experimental Archaeology	3	ANTHRO 501G	Archaeology of Death	3
ANTHRO 425	Hunter-Gatherer Lifeways: Past and Present	3	ANTHRO 502G	Lithic Analysis: Stone Tools and Human Behavior	3
ANTHRO 426	Who Owns the Past?	3	ANTHRO 525G	Zooarchaeology: Analysis of Faunal Remains	3
ANTHRO 431	Cities and Culture	3	ANTHRO 535G	Analysis of Archaeological Ceramics	3
ANTHRO 439	Culture and Global Health	3	ANTHRO 560G	Introduction to Research Methods in Anthropology	3
ANTHRO 440	Medical Anthropology	3	ANTHRO 561G	Techniques and Problems in Ethnography	3
ANTHRO 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3	ANTHRO 562G	Techniques and Problems in Archaeology	3
ANTHRO 442	Humanitarianism in Global Perspective	3	ANTHRO 566G	Archaeological Analysis and Report Preparation:	3-6
ANTHRO 443	Medicine and Pharmaceuticals in the Global Age	3	ANTHRO 567G	Archaeological Field School	3-6
ANTHRO 446	The Child in Different Cultures	3	ANTHRO 568G	Introduction to Anthropological Statistics	3
ANTHRO 447	The Global Politics of Human Rights	3			
ANTHRO 448	Cultural and Human Ecology	3	<b>Undergraduate Requirements</b>		
ANTHRO 449	The Human Economy	3	The Accelerated Graduate Degree in Anthropology requires students meet the following criteria:		
ANTHRO 450	Political Anthropology	3	<ul style="list-style-type: none"> <li>• Minimum GPA of 3.5 (Anthro and Cumulative)</li> <li>• Junior standing</li> <li>• Prior completion of ANTHRO 101, ANTHRO 102, and ANTHRO 103</li> <li>• Declaration of major in Anthropology with an intent to apply for the Accelerated Master's Degree in Anthropology</li> </ul>		
ANTHRO 460	Anthropological Theory	3	Approved enrollment into graduate level coursework during an undergraduate career does not guarantee admission to the MS in Anthropology as part of the Accelerated Graduate Degree. These courses		
ANTHRO 465	Historic Preservation in Archaeology	3			
ANTHRO 466	Historical Archaeology	3			
ANTHRO 467	Archaeological Curation: A Practicum in the Care of Research Collections	3			
ANTHRO 497	Study Abroad: (Programs in Peru and South Africa may be used for graduate credit)	1-12			
ANTHRO 501	Archaeology of Death	3			
ANTHRO 502	Lithic Analysis: Stone Tools and Human Behavior	3			
ANTHRO 525	Zooarchaeology: Analysis of Faunal Remains	3			
ANTHRO 535	Analysis of Archaeological Ceramics	3			



fulfill requirements for the BA in Anthropology, regardless of acceptance into Graduate School.

### Graduate School Admission Requirements

Admission to the MS in Anthropology as part of the Accelerated Graduate Degree in Anthropology is selective. Students apply by January of their Junior (3rd) year. In order to be considered for admission into Graduate School, students must meet all existing Department of Anthropology graduate program admission requirements.

### Art History, BA (p. 884)/Art History, MA (p. 889)

This accelerated graduate degree involves the following bachelor's and master's degrees: Art History BA and Art History MA. There are 6 forward shared credits and 15 backward shared credits for a total of 21 shared credits.

### Eligible Forward Shared Courses

Courses must be taken at the graduate (G) level and will count toward the Art History MA as well as fulfill the Art History BA undergraduate requirement.

Code	Title	Credits
<b>Courses approved for forward shared credit</b>		
ARTHIST 307G	Film Directors:	3
ARTHIST 308G	Film Styles:	3
ARTHIST 312G	Minoan and Mycenaean Art and Archaeology	3
ARTHIST 313G	Greek Art and Archaeology	3
ARTHIST 314G	Art and Archaeology of the Ancient Near East	3
ARTHIST 315G	Art and Archaeology of Ancient Egypt	3
ARTHIST 316G	Roman Art and Archaeology	3
ARTHIST 324G	Early Christian and Byzantine Art and Architecture	3
ARTHIST 325G	Early Medieval Art in the West	3
ARTHIST 327G	Caliphs, Emirs, & Kings: Art & Architecture of Medieval Spain	3
ARTHIST 329G	Late Medieval Art and Architecture	3
ARTHIST 333G	High Renaissance Art in Italy	3
ARTHIST 341G	Art of the Dutch Golden Age	3
ARTHIST 342G	Art and Society in Renaissance Florence	3
ARTHIST 343G	Art and Culture of Spain and Latin America, 1500-1750	3
ARTHIST 349G	American Postmodernism 1960-2000	3
ARTHIST 353G	American Art: Colonial Period - 1870	3
ARTHIST 354G	American Art: 1870 - Present	3
ARTHIST 355G	American Folk Art	3
ARTHIST 357G	Rococo to Revolution: European Art, 1750-1850	3
ARTHIST 358G	Realism to Post-Impressionism: European Art, 1850-1900	3
ARTHIST 364G	Modernism and the Avant-Garde, 1900-1960	3
ARTHIST 365G	History of Photography	3
ARTHIST 366G	German Painting, 1800-1933	3
ARTHIST 367G	Latin American Modernisms	3

ARTHIST 368G	History of Modern Design	3
ARTHIST 369G	Introduction to Contemporary Art	3
ARTHIST 370G	Trends in Contemporary Architecture	3
ARTHIST 371G	African Art	3
ARTHIST 372G	Art of the Inca and their Ancestors	3
ARTHIST 373G	Art of Ancient Mexico and Central America	3
ARTHIST 375G	Art of the Aztec Empire	3
ARTHIST 382G	Chinese Art and Architecture	3
ARTHIST 383G	Japanese Art and Architecture	3
ARTHIST 384G	Art and Immortality in Ancient China	3
ARTHIST 386G	Art, Ritual, and Ethnicity of China	3
ARTHIST 387G	Buddhist Art and Architecture	3
ARTHIST 412G	Cities and Sanctuaries of Ancient Greece	3
ARTHIST 413G	Greek Sculpture	3
ARTHIST 425G		3
ARTHIST 426G		3
ARTHIST 431G	Renaissance Architecture in Italy	3
ARTHIST 447G	Topics in Early Modern Art:	3
ARTHIST 458G	A Comparative History of Architecture and Urbanism:	3
ARTHIST 459G		3
ARTHIST 462G	Frank Lloyd Wright	3
ARTHIST 463G	Cubism and its Inheritance	3
ARTHIST 465G	Dada and Surrealist Art	3
ARTHIST 469G	American Artists Revealed:	3
ARTHIST 470G	Topics in American Art:	3
ARTHIST 472G		3
ARTHIST 473G		3
ARTHIST 474G	Maya Art	3
ARTHIST 480G		3
ARTHIST 481G	Topics in Chinese Art:	1-3
ARTHIST 482G	Topics in Non-Western Art:	3
ARTHIST 497G	Study Abroad:	1-12
ARTHIST 603G	The Art Museum: History, Theory, Practice	3

### Eligible Backward Shared Courses

The following courses may be used to fulfill College of Letters & Sciences (L&S) electives for the undergraduate degree.

Code	Title	Credits
<b>Courses approved for backward shared credit</b>		
ARTHIST 703	Introduction to Art Museum Studies I	3
ARTHIST 704	Introduction to Art Museum Studies II	3
ARTHIST 710	Colloquium in Ancient Art and Archaeology: <sup>1</sup>	3
ARTHIST 720	Colloquium in Medieval Art/Architecture: <sup>2</sup>	3
ARTHIST 730	Colloquium in Renaissance/Baroque Art/Architecture: <sup>3</sup>	3
ARTHIST 740	Colloquium in Latin American Art: <sup>4</sup>	3
ARTHIST 750	Colloquium in American Art: <sup>5</sup>	3

ARTHIST 760	Colloquium in Modern Art/Architecture: 5	3
ARTHIST 761	Colloquium in Film History, Theory, Criticism: <sup>6</sup>	3
ARTHIST 770	Colloquium in Non-Western Art: <sup>4</sup>	3
ARTHIST 891	Art Museum Internship <sup>7</sup>	3

<sup>1</sup> Fulfills UG Ancient requirement. Fulfills G Ancient/Medieval.

<sup>2</sup> Fulfills UG Medieval requirement. Fulfills G Ancient/Medieval.

<sup>3</sup> Fulfills UG Renaissance-Baroque requirement. Fulfills G Renaissance-Baroque.

<sup>4</sup> Fulfills UG Non-Western requirement. Fulfills G Non-Western.

<sup>5</sup> Fulfills UG 19<sup>th</sup>-20<sup>th</sup> Century requirement. Fulfills G Modern/Contemporary.

<sup>6</sup> Fulfills UG Film requirement. Fulfills G Modern/Contemporary.

<sup>7</sup> Fulfills UG Internship (ARTHIST 691) requirement.

### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. To be permitted to enroll in courses at the graduate ("G") level during a student's junior year with the intention of forward sharing those courses toward the master's degree the student must meet the following criteria:

- Have declared the major in Art History
- Have a UWM cumulative grade point average (GPA) of 3.0 or higher
- On schedule to complete all GERs and 105 credits by the end of the junior year

### Graduate Admissions Requirements

Admission to the Graduate School and the graduate phase of the accelerated Art History program will be selective and occur in January of the junior year. Students should apply by January 15th to be considered for funding and priority registration. To be considered for admission to the graduate phase students must meet the following requirements:

- A cumulative grade point average (GPA) of 3.0 or higher
- Two letters of recommendation, preferably from UWM Art History faculty

Students who are not selected for the graduate phase of the program may complete the BA with a major in Art History.

### Biomedical Sciences, BS: Biomedical Science (p. 707)/Biomedical Sciences, MS (p. 726)

This accelerated graduate degree involves the following bachelor's and master's degrees: Biomedical Sciences, BS and Biomedical Sciences (BMS), MS (thesis-track). There are 6 forward-shared credits and 15 backward-shared credits for a total of 21 shared credits.

#### Eligible Forward-Shared Courses

Courses must be taken at the graduate (G) level and can count toward the BMS graduate requirement and also fulfill BMS undergraduate requirement. Courses to be considered for forward sharing:

Code	Title	Credits
BMS 717	Laboratory Technology-Theory and Practice	2
BMS 718	Experimental Design and Research in Biomedical Sciences	1
PSYCH 510G	Advanced Psychological Statistics	3

BMS 610G	Pharmacology	3
BMS 539G	Public Health Microbiology	2
BMS 540G	Public Health Microbiology Lab	2
BMS 555G	Toxicology and Therapeutic Drug Monitoring	1

#### Eligible Backward-Shared Courses

These courses fulfill BMS requirements for the undergraduate degree.

A maximum of 15 credits can be shared backward. Courses to be considered for backward sharing include the following:

Code	Title	Credits
BMS 615G	Cellular and Molecular Toxicology	3
BMS 701	Human Pathophysiology I	3
BMS 702	Human Pathophysiology II	3
BMS 705	Molecular Pathology	3
BMS 710	Seminar in Biomedical Sciences	1
BMS 750	Infection and Immunity	3
BMS 751	Immunopathology	3
BMS 756	Current Concepts in Cancer	3
BMS 765	Molecular Pathophysiology	3
BMS 775	Mechanisms of Infectious Disease	3

### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. Eligible students must be enrolled in the BMS sub-major and must maintain a GPA of 3.0. Eligible students should meet with the program director and apply to the program in the Fall of their junior year.

### Graduate Admissions Requirements

To be considered for admission into Graduate School prior to completing their Bachelor's degree, the student meet the criteria for admission established by the BMS MS program and the UWM Graduate School and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student. In addition, the student must have a minimum GPA of 3.0.

### Community Engagement and Education, BS (p. 338)/Cultural Foundations of Community Engagement and Education, MS (p. 351)

This accelerated graduate degree involves the the following bachelor's and master's degrees: Community Engagement and Education, BS (CEED) and Cultural Foundations of Engagement and Education, MS (CFCEE). There are 6 forward shared credits and 15 backward shared credits for a total of 21 shared credits.

#### Eligible Shared Courses

CFCEE elective courses taken during the undergraduate career must be taken at the graduate (G) level to count forward toward the graduate career. These courses will count toward the CFCEE elective course requirement and also fulfill elective credits in the CEED undergraduate major.

Elective courses in CFCEE are selected in close consultation with the faculty advisor such that they can be tailored to the student's MS degree progression. Course selection must be approved by the advisor and program to move the student toward mastery of the CDS standards.

All courses listed below can be backward shared to fulfill credits toward the bachelor's degree.

Code	Title	Credits
ED POL 520	Peace Education <sup>1</sup>	3
ED POL 531	Alternative Schools <sup>1</sup>	3
ED POL 533	Educating Black Males-Theories, Methods and Strategies <sup>1</sup>	3
ED POL 534	Students Placed At Risk: Deconstructing Risk, Defining Promise <sup>1</sup>	3
ED POL 535	Educating Students Placed At Risk: Pedagogies of Engagement <sup>1</sup>	3
ED POL 560	Education and Hispanics <sup>1</sup>	3
ED POL 580	An Overview of Child/Youth Care <sup>1</sup>	3
ED POL 581	Youth Work Practice <sup>1</sup>	3
ED POL 597	Public Schools, Church-State Issues: Educational Foundations <sup>1</sup>	3
ED POL 601	Foundations of Community-Based Organizations <sup>1</sup>	3
ED POL 602	Proposal Writing and Fundraising Skills for Community-Based Organizations <sup>1</sup>	3
ED POL 609	Community Partnerships <sup>1</sup>	3
ED POL 610	Reproduction of Minoritized Communities <sup>1</sup>	3
ED POL 611	Community Policies and Urban Minority Youths <sup>1</sup>	3
ED POL 612	Community Participation and Power <sup>1</sup>	3
ED POL 620	History of the Education of African Americans <sup>1</sup>	3
ED POL 624	Gender and Education <sup>1</sup>	3
ED POL 625	Race Relations in Education <sup>1</sup>	3
ED POL 626	Antiracist Education <sup>1</sup>	3
ED POL 630	Race, Ethnicity, and Public Policy in Urban America <sup>1</sup>	3
ED POL 633	Community Development: History, Structure, Process-Empowering Communities <sup>1</sup>	3
ED POL 639	Milwaukee Black Community <sup>1</sup>	3
ED POL 640	The Rise and Fall of America's Southern Civil Rights Movement <sup>1</sup>	3
ED POL 650	The Civil Rights Movement in Northern Cities <sup>1</sup>	3
ED POL 702	Cultural Foundations of Education Graduate Seminar <sup>1</sup>	3
ED POL 705	Sociology of Education and Community Engagement	3
ED POL 710	Research Methods for Education and Community Engagement	3
ED POL 740	Modern Philosophies of Education and Community	3
ED POL 750	History of Education in American Communities	3

<sup>1</sup> This course may be forward shared

## Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. If eligible, students will submit the following materials to the department:

- 1-2 page statement explaining their interest in the particular field of study as reasons for pursuing an accelerated degree
- copy of their college transcript
- a recommendation letter from a faculty member in the chosen field

Both the CEED and CFCEE programs must agree to accept the student into the accelerated graduate degree.

## Graduate Admissions Requirements

To be considered for admission into the Graduate School prior to completing their bachelor's degree, students must meet the minimum criteria for admission established by the MS in Cultural Foundations of Community Engagement and Education and the UWM Graduate School and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student.

Students who do not satisfactorily meet admissions criteria for Graduate School are eligible to continue with their bachelor's degree, provided they continue to meet undergraduate standards.

## Community Engagement and Education, BS (p. 338)/Educational Psychology, MS: Cognitive and Developmental Sciences (p. 359)

This accelerated graduate degree involves the following bachelor's and master's degrees: Community Engagement and Education, BS (CEED) and Educational Psychology, MS with a concentration in Cognitive and Developmental Sciences (ED PSY CDS). There are 6 forward shared credits and 15 backward shared credits for a total of 21 shared credits.

## Eligible Forward Shared Courses

Any graduate course that fulfills an ED PSY CDS elective can be forward counted and must be approved by the advisor and program to move the student toward mastery of the ED PSY CDS standards. ED PSY CDS electives can be taken from any area, including those outside of the CDS concentration, and are tailored to the student's ED PSY CDS degree progression. Courses must be taken at the graduate (G) level. These courses fulfill CEED elective credits.

## Eligible Backward Shared Courses

All courses required for ED PSY CDS are eligible for backward shared credit and fulfill CEED elective credits.

## Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. If eligible, students will submit the following materials to the department:

- 1-2 page statement explaining their interest in the particular field of study as reasons for pursuing an accelerated degree
- copy of their college transcript
- a recommendation letter from a faculty member in the chosen field

## Graduate School Admission Requirements

To be considered for admission into Graduate School prior to completing their bachelor's degree, students must meet the minimum criteria for admission established by the MS in Educational Psychology and the

UWM Graduate School and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student.

Because the ED PSY CDS programs coordinator will be involved in monitoring undergraduate student progress of individuals pursuing an accelerated degree, the ED PSY CDS program will permit guaranteed acceptance into graduate school provided they meet the criteria above.

Students who do not satisfactorily meet graduate school admissions criteria may continue with their BS in Community Education and Engagement.

## Criminal Justice and Criminology, BS (p. 524)/Criminal Justice and Criminology, MS (p. 528)

This accelerated graduate degree involves the following bachelor's and master's degrees: Criminal Justice & Criminology, BS, and Criminal Justice & Criminology, MS. There are 6 forward-shared credits and 15 backward-shared credits for a total of 21 shared credits.

### Eligible Shared Courses

All courses listed below can be backward shared to fulfill a major elective or general elective for the bachelor's degree.

Code	Title	Credits
CRM JST 421G	Cybercrime <sup>1</sup>	3
CRM JST 490G	Drugs, Crime and Criminal Justice <sup>1</sup>	3
CRM JST 520G	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS <sup>1</sup>	3
CRM JST 671G	Juvenile Justice <sup>1,3</sup>	3
CRM JST 680G	Jails <sup>1</sup>	3
CRM JST 795	Issues in Law Enforcement Practice and Policy	3
CRM JST 820	Police and the Multicultural Community	3
CRM JST 830	Intervention Strategies for Correctional Clients	3
CRM JST 850	Issues in Correctional Practice and Policy	3
CRM JST 910	Methods and Practice Capstone for Crime Analysts	3
CRM JST 920	Criminal Justice Masters Capstone Seminar	3
CRM JST 970	Readings in Criminal Justice Research: <sup>1,2</sup>	3

<sup>1</sup> This course may be forward shared.

<sup>2</sup> CRM JST 970 (special topics) can only be taken if the student has not already taken the topic as an undergraduate elective (i.e. Criminal Evidence and Investigation, Violence and the Criminal Justice System).

<sup>3</sup> CRM JST 671G would count as a major requirement for the bachelor's degree when it is backward shared.

### Undergraduate Requirements

The Criminal Justice and Criminology Department's graduate program coordinator and undergraduate academic advisors from the Helen Bader School of Social Welfare will be responsible for advising students in the accelerated program. For enrollment in graduate-level courses during an undergraduate career that may be forward shared toward the MS in Criminal Justice & Criminology, the Accelerated Graduate Degree in

Criminal Justice & Criminology requires students meet the following additional criteria:

- a student must maintain an overall GPA of at least 3.0 and a GPA of at least 3.25 in the major area of study
- junior standing (58+ credits)
- prior completion of CRM JST 110, CRM JST 271, CRM JST 273, CRM JST 275, CRM JST 305 courses

Approved enrollment into graduate-level coursework during an undergraduate career does not guarantee admission to the MS in Criminal Justice & Criminology as part of the Accelerated Graduate Degree. These courses fulfill requirements for the BS in Criminal Justice & Criminology regardless of acceptance into Graduate School. Students apply for Graduate School as indicated below. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a Master's degree.

### Graduate School Admission Requirements

Admission to the MS in Criminal Justice & Criminology as part of the Accelerated Graduate Degree is guaranteed. Students typically apply by February of the junior year. To be considered for admission into the Graduate School prior to completing their Bachelor's degree, students must do the following:

- Meet the standard UWM Graduate School admission requirements (except for the completion of a Bachelor's degree).
- Meet the standard application requirements for a MS in Criminal Justice & Criminology.
- Be in progress to complete 105 bachelor's credits prior to their first term as a graduate student.

Students who do not satisfactorily meet admissions criteria for the MS in Criminal Justice & Criminology are eligible to continue with their BS in Criminal Justice & Criminology major, provided they continue to meet those standards.

## Economics, BA (p. 999)/Economics, MA (p. 1003)

This accelerated graduate degree involves the following bachelor's and master's degrees: Economics, BA, and Economics, MA. There are 6 forward shared credits and a maximum of 15 backward shared credits for a total of 21 shared credits.

### Eligible Forward Shared Courses

Forward shared courses must be taken at the graduate level.

Code	Title	Credits
ECON 411G	Economic Forecasting Methods	3
ECON 413G	Statistics for Economists	3
ECON 415G	Economics of Employment and Labor Relations	3
ECON 426G	Public Economics	3
ECON 432G	Industrial Organization	3
ECON 447G	Labor Economics	3
ECON 448G	Economics of Human Resources	3
ECON 450G	Health Economics	3
ECON 454G	International Trade	3
ECON 455G	International Finance	3
ECON 458G	Selected Topics in Economics:	3

ECON 506G	Mathematical Economics I	3
ECON 513G	Introduction to Econometrics	3

EXCEDUC 679G	Critical Issues in Transition Planning for Students with Disabilities	3
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**Eligible Backward Shared Courses**

Code	Title	Credits
ECON 606G	Mathematical Economics II	3
ECON 701	Economic Theory: Microeconomics	4
ECON 702	Economic Theory: Macroeconomics	4
ECON 703	Econometrics	4

**Undergraduate Requirements**

Students may declare their interest in the accelerated Economics BA/MA program as soon as they begin at UWM, and should seek advice from the Economics Undergraduate Advisor regarding their choice of courses in the first three years.

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. If eligible, students must meet minimum Graduate School GPA requirements before taking any graduate (G) level courses as an undergraduate student. To continue in the undergraduate portion of an accelerated program, a student must have a 2.75 GPA in their undergraduate coursework before they take any U/G courses for credit.

Eligible and interested students must apply for admission to the Graduate School no later than March 1st in their junior year.

Note that the required courses for the economics undergraduate major (ECON 103, ECON 104, ECON 210, ECON 301 and ECON 302) need to be completed before admission to the Graduate School.

The following classes are eligible for the completion of the undergraduate research requirement: ECON 404, ECON 411, ECON 413, ECON 426, ECON 432, ECON 447, ECON 448, ECON 454, ECON 455, ECON 506, ECON 513, or ECON 699.

**Graduate Admissions Requirements**

To be considered for admission into Graduate School prior to completing the undergraduate degree, the student must meet the requirements established by the Economics graduate program and the UWM Graduate School, and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student.

Approved enrollment into graduate level coursework during an undergraduate career does not guarantee admission to graduate school as part of the Accelerated Graduate Degree. Per UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a master's degree.

**Exceptional Education, BS: K4-12 Special Education (p. 433)/Exceptional Education, MS (p. 437)**

This accelerated graduate degree involves the following bachelor's and master's degrees: Exceptional Education, BS: K4-12 Special Education and Exceptional Education, MS. There are 6 forward-shared credits and 13 backward-shared credits for a total of 19 shared credits.

**Eligible Forward-Shared Credit Courses**

Code	Title	Credits
EXCEDUC 532G	Assessment and Monitoring	3
EXCEDUC 601G	Behavioral Supports	3

**Eligible Backward-Shared Credit Courses**

**Backward-Shared Credit Courses for students completing the bachelor's with a teacher certification in special education:**

Code	Title	Credits
EXCEDUC 488G	Linking Seminar: Professional Development	1
EXCEDUC 588G	Teaching Experience III	1-12
EXCEDUC 574G	Curriculum Accommodations II: Primary/Middle	3

**Backward-Shared Credit Courses for students who elect to earn a bachelor's degree in Exceptional Education without a teacher certification in special education:**

Code	Title	Credits
EXCEDUC 560G	Foundations of Autism Spectrum Disorders	3
EXCEDUC 699G	Independent Reading	1-3
EXCEDUC 703	Job Development and On the Job Support for Individuals with Disabilities	3
EXCEDUC 705	Transition Assessment for Individuals with Disabilities	3
EXCEDUC 707	Linking Academics and Self-Determination to Transition Planning	3
EXCEDUC 761	Methods for Working with Individuals with Autism	3
AD LDSP 598G	Introduction to Workforce Education and Development	3
AD LDSP 861	Foundations in Systems of Educational Equity	3
SOC WRK 774	Trauma Counseling I: Theory and Research	3
SOC WRK 775	Trauma Counseling II: Diagnosis and Treatment	3

**Undergraduate Requirements**

The Academic advisors from the School of Education will identify, track, and advise undergraduates who have declared an intent to pursue an accelerated graduate degree. Students apply to the undergraduate Bachelor's Degree in Exceptional Education and teacher certification program in special education during their 2nd or 3rd year (typically), and subsequent to admission complete 4 semesters of professional coursework.

The following items must be met prior to applying for formal admission to the undergraduate Bachelor's Degree in Exceptional Education and teacher certification program in special education:

- At least 45 credits with a GPA of 2.5
- Grade of "C" or better in MATH 175 (or equivalent) and ENGLISH 102 (or equivalent)
- Grade of "C" or better in CURRINS 300 and a positive field evaluation or equivalent (e.g., recommendation from instructor)

Students indicate their intent to apply to the Accelerated Graduate Degree program after their 2nd semester of professional coursework in the undergraduate Bachelor's Degree in Exceptional Education and teacher certification program in special education. This allows them to be eligible to take graduate-level courses during their undergraduate career

in the 3rd semester of professional coursework, and students must meet the following criteria:

- meet the minimum GPA requirements for admission to the Graduate School at the time of enrollment in graduate level U/G or G coursework
- a minimum GPA of 3.0 on all work in the professional program
- declare their intent to apply for an accelerated graduate program
- complete service and/or undergraduate research in special education or a related field
- write and submit a 2 page (approximately) personal statement that explains: the students' interest in a particular field of study, an appropriate faculty mentor tied to their interests, and reasons for desiring to enter the accelerated program
- submit 2 letters of recommendation from professionals who can speak to the applicant's analytical thinking, intellectual curiosity, and ability to manage an increased workload
- receive a positive recommendation from the teacher certification program faculty, following an interview with the faculty
- complete the same academic work and follow the same performance standards as graduate students in the Exceptional Education master's program

Approved enrollment into graduate-level coursework during an undergraduate career does not guarantee admission to graduate school as part of the Accelerated Graduate Degree. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a master's degree.

### Graduate School Admission Requirements

Admission to Graduate School prior to completion of a bachelor's degree as part of the Accelerated Graduate Degree in Exceptional Education is selective, students must meet the standard UWM Graduate School MS in Exceptional Education admission requirements, and be in progress to complete 107 bachelor's credits prior to their first term as a graduate student.

Students who do not satisfactorily meet admissions criteria for Graduate School are eligible to continue with their bachelor's degree, provided they continue to meet undergraduate standards.

### Finance, BBA (p. 263)/Information Technology Management, MS (p. 295)

This accelerated graduate degree involves the following bachelor's and master's degrees: Finance, BBA and Information Technology Management, MS. There are 6 forward shared credits and 9 backward shared credits for a total of 15 shared credits.

#### Eligible Forward-Shared Courses

Six (6) graduate-level credits taken in undergraduate status may count toward Business Elective credits and forward share to the master's degree. Any of the required or elective course options in the Information Technology Management, MS program may be forward-shared.

#### Eligible Backward-Shared Courses

Nine (9) graduate credits may be backward shared as such:

- 3 credits of Business Electives
- 6 credits of General Electives

Any of the required or elective course options in the Information Technology Management, MS program may be backward shared. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

### Undergraduate Requirements

The intent to pursue an accelerated degree in Information Technology Management, MS may be declared with the student's undergraduate advisor upon advancement to the major and with a 3.00 cumulative GPA.

### Graduate School Admissions Requirements

To be considered for admission into the Graduate School prior to completing their Bachelor's degree, students must meet the minimum criteria for admission established by the Information Technology Management, MS and the UWM Graduate School. Students who meet the minimum Graduate School admissions criteria with a 3.00 cumulative GPA as determined by the Graduate School will be waived from taking the GRE/GMAT and be guaranteed admittance to the Information Technology Management, MS. Those between a 2.75 and 2.99 cumulative GPA as determined by the Graduate School will be required to submit a GRE/GMAT score and will be subject to secondary review by Lubar Information Technology Management faculty.

Opting Out of the AGD as an Undergraduate Student (p. 38)

Opting Out of the AGD After Starting Graduate School (p. 38)

### Finance, BBA (p. 263)/Management, MS: Finance Analysis (p. 302)

This accelerated graduate degree involves the following bachelor's and master's degrees: Finance, BBA and Management, MS: Finance Analysis. There are 6 forward-shared credits and 12 backward-shared credits for a total of 18 shared credits.

#### Eligible Forward-Shared Courses

Six (6) graduate-level credits taken in undergraduate status may count toward Business Elective credits and share forward to the master's degree. Any of the required or elective course options in the Management, MS: Finance Analysis program may be shared forward.

#### Eligible Backward-Shared Courses

Twelve (12) graduate credits may be backward shared as such: Up to 3 credits of Finance Major Electives; 6 credits of Business Electives; 3 credits of General Electives. Any of the required or elective course options in the Management, MS: Finance Analysis program may be shared backward. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

### Undergraduate Requirements

The intent to pursue an accelerated degree in Management, MS: Finance Analysis may be declared with the student's undergraduate advisor upon advancement to the major and with a 3.00 cumulative GPA.

Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a graduate degree.

### Graduate School Admissions Requirements

To be considered for admission into the Graduate School prior to completing their Bachelor's degree, students must meet the minimum criteria for admission established by the Management, MS: Finance Analysis and the UWM Graduate School. Students who meet the minimum Graduate School admissions criteria with a 3.00 cumulative GPA as determined by the Graduate School will be waived from taking

the GRE/GMAT and be guaranteed admittance to the Management, MS: Finance Analysis. Those between a 2.75 and 2.99 cumulative GPA as determined by the Graduate School will be required to submit a GRE/GMAT score and will be subject to secondary review by Lubar Finance faculty.

Opting Out of the AGD as an Undergraduate Student (p. 38)

Opting Out of the AGD After Starting Graduate School (p. 38)

## French, BA (p. 1084)/Language, Literature, and Translation, MA: French and Francophone Language, Literature, and Culture (p. 1157)

This is an approved AMD as of Spring 2020. Requirements are currently being formatted for Catalog copy from governance documents. See program directly for details.

## French, BA (p. 1084)/Translation and Interpreting Studies, MA (p. 1306)

This accelerated graduate degree involves the following bachelor's and master's degrees: French, BA and Translation and Interpreting Studies (TIS) MA. There are 6 forward shared credits and 15 backward shared credits for a total of 21 shared credits.

### Eligible Forward Shared Courses

Courses must be taken at the graduate (G) level and will count toward the TIS MA as well as fulfill the French BA undergraduate requirement.

Code	Title	Credits
<b>Courses eligible for forward shared credit (maximum of 6 credits)</b>		
FRENCH 426G	Growing Up French	3
FRENCH 427G	Advanced Written Expression	3
FRENCH 428G	Castles, Cathedrals, and Common People: The Foundations of French Culture	3
FRENCH 429G	Royalty, Reason, and Revolution: The Golden Age of French Culture	3
FRENCH 430G	Reaction and Innovation: French Culture of the 19th and 20th Centuries	3
FRENCH 450G	Institutions and Culture of Contemporary France	3
FRENCH 451G	Cinema of the French-Speaking World:	3
FRENCH 457G	Topics in French and Francophone Studies in Translation:	3
FRENCH 510G	Seminar on Masterpieces of Literature Written in French:	3
FRENCH 520G	Seminar in Contemporary French Literature:	3
FRENCH 592G	Seminar in French Language:	3

### Eligible Backward Shared Courses

These courses may be used to fulfill the electives requirements for the undergraduate degree in L&S.

Code	Title	Credits
<b>Courses eligible for backward shared credits (maximum of 15 credits)</b>		
FRENCH 733	Seminar in French Literature:	3
TRNSLTN 706	Introduction to Translation: French to English	3

TRNSLTN 716	Seminar in Advanced Translation: French to English	3
TRNSLTN 709	Seminar in Literary and Cultural Translation	3
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 820	Translation Theory	3

### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. If eligible, students must meet the minimum UWM graduate school GPA requirements before taking any graduate (G) level classes as an undergraduate. The French BA/TIS MA program is open to students who have:

- achieved junior status;
- declared a major in French;
- maintained a cumulative undergraduate GPA of 3.25 or better, and a GPA in the French major of 3.5 or better;
- completed at least 60 of their undergraduate credit hours and at least 21 of their French credit hours at UWM;
- on track for completing the major requirements (27 credits) for an undergraduate major in French.

### Graduate Admissions Requirements

To be considered for admission into Graduate School prior to completing their Bachelor's degree, the student must meet criteria for admission established by the TIS MA and the UWM Graduate School, and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student.

In addition, eligible and interested students must apply for admission to the Graduate School in the Translation & Interpreting Studies MA program no later than March 1st of their third year. They must submit:

- a personal statement of goals, abilities, and reasons for pursuing the MA degree.
- three academic letters of recommendation.

Students also must take and pass the Translation Qualifying Exam, which is a requirement for admission to the MA TIS program for all students. It is recommended that the students do so in early November of their third year, but they must do so no later than May of their third year.

Students who do not gain admission to the MA degree can complete the BA with a major in French by taking at least one course numbered higher than 350 in an additional semester; they will also need to complete any required L&S and university credits still outstanding.

Applications will be reviewed by the TIS admissions panel.

## Freshwater Sciences, BS: Aquatic Science (p. 679)/Freshwater Sciences, MS: Aquatic Science (Professional) (p. 683)

This accelerated graduate degree involves the following bachelor's and master's degrees: Freshwater Sciences, BS: Aquatic Science and Freshwater Sciences, MS: Aquatic Science (Professional). There are 6 forward-shared credits and 15 backward-shared credits for a total of 21 shared credits.

### Eligible Forward-Shared Courses

Six (6) graduate-level courses taken in undergraduate status may count toward the Freshwater Sciences, MS: Aquatic Science (Professional)

course requirements and also fulfill elective credits in the undergraduate Freshwater Sciences, BS: Aquatic Science major. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

Code	Title	Credits
<b>Courses approved for forward-shared credit</b>		
FRSHWTR 502G	Aquatic Ecosystem Dynamics	3
FRSHWTR 504G	Quantitative Freshwater Analysis	3
FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	3
FRSHWTR 510G	Economics, Policy and Management of Water	3
FRSHWTR 511G	Ichthyology	3
FRSHWTR 513G	Field Experimentation and Analysis in Freshwater Sciences	3
FRSHWTR 514G	Analytical Techniques in Freshwater Sciences	3
FRSHWTR 524G	Introduction to Stable and Radioactive Isotopes	3
FRSHWTR 541G	Contaminants of Emerging Concern	3
FRSHWTR 563G	Finfish Aquaculture and Nutrition Principles	3
FRSHWTR 567G	Fish Health	3
FRSHWTR 583G	Cost-Benefit Analysis for Environmental Resource Decisions	3
FRSHWTR 584G	Aquatic Ecosystem Services Valuation	3
FRSHWTR 585G	Applied Water Statistics and Data Manipulation	3
FRSHWTR 630G	Leadership in Science: Tackling Wicked Problems	3
FRSHWTR 640G	Sequence Analysis	3
FRSHWTR 781	Water Law for Scientists and Policy Makers	3
FRSHWTR 810	Professional Development for Water Leaders	3
FRSHWTR 890	Science Communication	3

### Eligible Backward-Shared Courses

Fifteen (15) graduate credits from the following list may be backward-shared credits.

Code	Title	Credits
<b>Courses approved for backward-shared credits</b>		
FRSHWTR 502G	Aquatic Ecosystem Dynamics	3
FRSHWTR 504G	Quantitative Freshwater Analysis	3
FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	3
FRSHWTR 510G	Economics, Policy and Management of Water	3
FRSHWTR 511G	Ichthyology	3
FRSHWTR 513G	Field Experimentation and Analysis in Freshwater Sciences	3
FRSHWTR 514G	Analytical Techniques in Freshwater Sciences	3
FRSHWTR 524G	Introduction to Stable and Radioactive Isotopes	3

FRSHWTR 541G	Contaminants of Emerging Concern	3
FRSHWTR 563G	Finfish Aquaculture and Nutrition Principles	3
FRSHWTR 567G	Fish Health	3
FRSHWTR 583G	Cost-Benefit Analysis for Environmental Resource Decisions	3
FRSHWTR 584G	Aquatic Ecosystem Services Valuation	3
FRSHWTR 585G	Applied Water Statistics and Data Manipulation	3
FRSHWTR 630G	Leadership in Science: Tackling Wicked Problems	3
FRSHWTR 640G	Sequence Analysis	3
FRSHWTR 781	Water Law for Scientists and Policy Makers	3
FRSHWTR 810	Professional Development for Water Leaders	3
FRSHWTR 890	Science Communication	3

### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. Before a student takes a G level course, they must have a cumulative undergraduate grade point average (GPA) of 2.75. Undergraduate students must maintain an overall GPA of at least 2.75.

Students should indicate their intent to apply to the Accelerated Graduate Degree program by the completion of their 5th semester of coursework in the undergraduate bachelor's degree. This allows them to be eligible to take graduate-level courses during their undergraduate career in the 7th semester, and progress to their graduate career by semester 8.

In addition to the minimum GPA requirements, students must submit the following materials to the School of Freshwater Sciences:

- Declaration of intent to apply for an accelerated graduate program.
- A 1-2 page personal statement that explains the students' interest in a particular field of study and reasons for desiring to enter the accelerated program.
- A recommendation letter from a faculty member who can speak to the applicant's critical thinking and writing skills, and ability to manage an increased workload.

Approved enrollment into graduate-level coursework during an undergraduate career does not guarantee admission to graduate school as part of the Accelerated Graduate Degree. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a graduate degree.

### Graduate School Admission Requirements

To be considered for admission into Graduate School prior to completing their bachelor's degree, students must meet the minimum criteria for admission established by the Freshwater Sciences, MS: Aquatic Science (Professional) program and the UWM Graduate School and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student.

Students who do not satisfactorily meet graduate school admissions criteria may continue with their Freshwater Sciences, BS degree.



## Freshwater Sciences, BS: Aquatic Science (p. 679)/Freshwater Sciences, MS: Water Policy (Professional) (p. 686)

This accelerated graduate degree involves the following bachelor's and master's degrees: Freshwater Sciences, BS: Aquatic Sciences and Freshwater Sciences, MS: Water Policy (Professional). There are 6 forward-shared credits and 15 backward-shared credits for a total of 21 shared credits.

### Eligible Forward-Shared Courses

Six (6) graduate-level courses taken in undergraduate status may count toward the Freshwater Sciences, MS: Water Policy (Professional) course requirements and also fulfill elective credits in the undergraduate Freshwater Sciences, BS: Aquatic Science major. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

Code	Title	Credits
<b>Courses approved for forward-shared credit</b>		
FRSHWTR 502G	Aquatic Ecosystem Dynamics	3
FRSHWTR 504G	Quantitative Freshwater Analysis	3
FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	3
FRSHWTR 510G	Economics, Policy and Management of Water	3
FRSHWTR 511G	Ichthyology	3
FRSHWTR 513G	Field Experimentation and Analysis in Freshwater Sciences	3
FRSHWTR 514G	Analytical Techniques in Freshwater Sciences	3
FRSHWTR 524G	Introduction to Stable and Radioactive Isotopes	3
FRSHWTR 541G	Contaminants of Emerging Concern	3
FRSHWTR 563G	Finfish Aquaculture and Nutrition Principles	3
FRSHWTR 567G	Fish Health	3
FRSHWTR 583G	Cost-Benefit Analysis for Environmental Resource Decisions	3
FRSHWTR 584G	Aquatic Ecosystem Services Valuation	3
FRSHWTR 585G	Applied Water Statistics and Data Manipulation	3
FRSHWTR 630G	Leadership in Science: Tackling Wicked Problems	3
FRSHWTR 640G	Sequence Analysis	3
FRSHWTR 781	Water Law for Scientists and Policy Makers	3
FRSHWTR 810	Professional Development for Water Leaders	3
FRSHWTR 890	Science Communication	3

### Eligible Backward-Shared Courses

Fifteen (15) graduate credits from the following list may be backward shared.

Code	Title	Credits
<b>Courses approved for backward-shared credit</b>		
FRSHWTR 502G	Aquatic Ecosystem Dynamics	3
FRSHWTR 504G	Quantitative Freshwater Analysis	3

FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	3
FRSHWTR 510G	Economics, Policy and Management of Water	3
FRSHWTR 511G	Ichthyology	3
FRSHWTR 513G	Field Experimentation and Analysis in Freshwater Sciences	3
FRSHWTR 514G	Analytical Techniques in Freshwater Sciences	3
FRSHWTR 524G	Introduction to Stable and Radioactive Isotopes	3
FRSHWTR 541G	Contaminants of Emerging Concern	3
FRSHWTR 563G	Finfish Aquaculture and Nutrition Principles	3
FRSHWTR 567G	Fish Health	3
FRSHWTR 583G	Cost-Benefit Analysis for Environmental Resource Decisions	3
FRSHWTR 584G	Aquatic Ecosystem Services Valuation	3
FRSHWTR 585G	Applied Water Statistics and Data Manipulation	3
FRSHWTR 630G	Leadership in Science: Tackling Wicked Problems	3
FRSHWTR 640G	Sequence Analysis	3
FRSHWTR 781	Water Law for Scientists and Policy Makers	3
FRSHWTR 810	Professional Development for Water Leaders	3
FRSHWTR 890	Science Communication	3

### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. Before a student takes a G level course, they must have a cumulative undergraduate grade point average (GPA) of 2.75. Undergraduate students must maintain an overall GPA of at least 2.75.

Students should indicate their intent to apply to the Accelerated Graduate Degree program by the completion of their 5th semester of coursework in the undergraduate bachelor's degree. This allows them to be eligible to take graduate-level courses during their undergraduate career in the 7th semester, and progress to their graduate career by semester 8.

In addition to the minimum GPA requirements, students must submit the following materials to the School of Freshwater Sciences:

- Declaration of intent to apply for an accelerated graduate program.
- A 1-2 page personal statement that explains the students' interest in a particular field of study and reasons for desiring to enter the accelerated program.
- A recommendation letter from a faculty member who can speak to the applicant's critical thinking and writing skills, and ability to manage an increased workload.

Approved enrollment into graduate-level coursework during an undergraduate career does not guarantee admission to graduate school as part of the Accelerated Graduate Degree. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a graduate degree.

### Graduate School Admission Requirements

To be considered for admission into Graduate School prior to completing their bachelor's degree, students must meet the minimum criteria for admission established by the Freshwater Sciences, MS: Water Policy (Professional) program and the UWM Graduate School and #be in progress to complete 105 bachelor's credits prior to their first term as a graduate student.

Students who do not satisfactorily meet graduate school admissions criteria may continue with their Freshwater Sciences, BS degree.

### Freshwater Sciences, BS: Water Policy (p. 681)/Freshwater Sciences, MS: Aquatic Science (Professional) (p. 683)

This accelerated graduate degree involves the following bachelor's and master's degrees: Freshwater Sciences, BS: Water Policy and Freshwater Sciences, MS: Aquatic Science (Professional). There are 6 forward-shared credits and 15 backward-shared credits for a total of 21 shared credits.

#### Eligible Forward-Shared Courses

Six (6) graduate-level courses taken in undergraduate status may count toward the Freshwater Sciences, MS: Aquatics Science (Professional) course requirements and also fulfill elective credits in the undergraduate Freshwater Sciences, BS: Water Policy major. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

Code	Title	Credits
<b>Courses approved for forward -shared credit</b>		
FRSHWTR 502G	Aquatic Ecosystem Dynamics	3
FRSHWTR 504G	Quantitative Freshwater Analysis	3
FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	3
FRSHWTR 510G	Economics, Policy and Management of Water	3
FRSHWTR 511G	Ichthyology	3
FRSHWTR 513G	Field Experimentation and Analysis in Freshwater Sciences	3
FRSHWTR 514G	Analytical Techniques in Freshwater Sciences	3
FRSHWTR 524G	Introduction to Stable and Radioactive Isotopes	3
FRSHWTR 541G	Contaminants of Emerging Concern	3
FRSHWTR 563G	Finfish Aquaculture and Nutrition Principles	3
FRSHWTR 567G	Fish Health	3
FRSHWTR 583G	Cost-Benefit Analysis for Environmental Resource Decisions	3
FRSHWTR 584G	Aquatic Ecosystem Services Valuation	3
FRSHWTR 585G	Applied Water Statistics and Data Manipulation	3
FRSHWTR 630G	Leadership in Science: Tackling Wicked Problems	3
FRSHWTR 640G	Sequence Analysis	3
FRSHWTR 781	Water Law for Scientists and Policy Makers	3

FRSHWTR 810	Professional Development for Water Leaders	3
FRSHWTR 890	Science Communication	3

#### Eligible Backward-Shared Courses

Fifteen (15) graduate credits from the following list may be backward shared.

Code	Title	Credits
<b>Courses approved for backward-shared credit</b>		
FRSHWTR 502G	Aquatic Ecosystem Dynamics	3
FRSHWTR 504G	Quantitative Freshwater Analysis	3
FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	3
FRSHWTR 510G	Economics, Policy and Management of Water	3
FRSHWTR 511G	Ichthyology	3
FRSHWTR 513G	Field Experimentation and Analysis in Freshwater Sciences	3
FRSHWTR 514G	Analytical Techniques in Freshwater Sciences	3
FRSHWTR 524G	Introduction to Stable and Radioactive Isotopes	3
FRSHWTR 541G	Contaminants of Emerging Concern	3
FRSHWTR 563G	Finfish Aquaculture and Nutrition Principles	3
FRSHWTR 567G	Fish Health	3
FRSHWTR 583G	Cost-Benefit Analysis for Environmental Resource Decisions	3
FRSHWTR 584G	Aquatic Ecosystem Services Valuation	3
FRSHWTR 585G	Applied Water Statistics and Data Manipulation	3
FRSHWTR 630G	Leadership in Science: Tackling Wicked Problems	3
FRSHWTR 640G	Sequence Analysis	3
FRSHWTR 781	Water Law for Scientists and Policy Makers	3
FRSHWTR 810	Professional Development for Water Leaders	3
FRSHWTR 890	Science Communication	3

#### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. Before a student takes a G level course, they must have a cumulative undergraduate grade point average (GPA) of 2.75. Undergraduate students must maintain an overall GPA of at least 2.75.

Students should indicate their intent to apply to the Accelerated Graduate Degree program by the completion of their 5th semester of coursework in the undergraduate bachelor's degree. This allows them to be eligible to take graduate-level courses during their undergraduate career in the 7th semester, and progress to their graduate career by semester 8.

In addition to the minimum GPA requirements, students must submit the following materials to the School of Freshwater Sciences:

- Declaration of intent to apply for an accelerated graduate program.
- A 1-2 page personal statement that explains the students' interest in a particular field of study and reasons for desiring to enter the accelerated program.
- A recommendation letter from a faculty member who can speak to the applicant's critical thinking and writing skills, and ability to manage an increased workload.

Approved enrollment into graduate-level coursework during an undergraduate career does not guarantee admission to graduate school as part of the Accelerated Graduate Degree. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a graduate degree.

### Graduate School Admission Requirements

To be considered for admission into Graduate School prior to completing their bachelor's degree, students must meet the minimum criteria for admission established by the Freshwater Sciences, MS: Aquatic Science (Professional) program and the UWM Graduate School and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student.

Students who do not satisfactorily meet graduate school admissions criteria may continue with their Freshwater Sciences, BS degree.

### Freshwater Sciences, BS: Water Policy (p. 681)/Freshwater Sciences, MS: Water Policy (Professional) (p. 686)

This accelerated graduate degree involves the following bachelor's and master's degrees: Freshwater Sciences, BS: Water Policy and Freshwater Science, MS: Water Policy (Professional). There are 6 forward-shared credits and 15 backward-shared credits for a total of 21 shared credits.

#### Eligible Forward-Shared Courses

Six (6) graduate-level courses taken in undergraduate status may count toward the Freshwater Sciences, MS: Water Policy (Professional) course requirements and also fulfill elective credits in the undergraduate Freshwater Sciences, BS: Water Policy major. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

Code	Title	Credits
<b>Courses approved for forward-shared credit</b>		
FRSHWTR 502G	Aquatic Ecosystem Dynamics	3
FRSHWTR 504G	Quantitative Freshwater Analysis	3
FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	3
FRSHWTR 510G	Economics, Policy and Management of Water	3
FRSHWTR 511G	Ichthyology	3
FRSHWTR 513G	Field Experimentation and Analysis in Freshwater Sciences	3
FRSHWTR 514G	Analytical Techniques in Freshwater Sciences	3
FRSHWTR 524G	Introduction to Stable and Radioactive Isotopes	3
FRSHWTR 541G	Contaminants of Emerging Concern	3
FRSHWTR 563G	Finfish Aquaculture and Nutrition Principles	3
FRSHWTR 567G	Fish Health	3

FRSHWTR 583G	Cost-Benefit Analysis for Environmental Resource Decisions	3
FRSHWTR 584G	Aquatic Ecosystem Services Valuation	3
FRSHWTR 585G	Applied Water Statistics and Data Manipulation	3
FRSHWTR 630G	Leadership in Science: Tackling Wicked Problems	3
FRSHWTR 640G	Sequence Analysis	3
FRSHWTR 781	Water Law for Scientists and Policy Makers	3
FRSHWTR 810	Professional Development for Water Leaders	3
FRSHWTR 890	Science Communication	3

#### Eligible Backward-Shared Courses

All Freshwater Sciences, MS: Water Policy (Professional) electives and required courses are eligible for backward sharing and fulfill Freshwater BS elective credits.

Code	Title	Credits
<b>Courses approved for backward-shared credit</b>		
FRSHWTR 502G	Aquatic Ecosystem Dynamics	3
FRSHWTR 504G	Quantitative Freshwater Analysis	3
FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	3
FRSHWTR 510G	Economics, Policy and Management of Water	3
FRSHWTR 511G	Ichthyology	3
FRSHWTR 513G	Field Experimentation and Analysis in Freshwater Sciences	3
FRSHWTR 514G	Analytical Techniques in Freshwater Sciences	3
FRSHWTR 524G	Introduction to Stable and Radioactive Isotopes	3
FRSHWTR 541G	Contaminants of Emerging Concern	3
FRSHWTR 563G	Finfish Aquaculture and Nutrition Principles	3
FRSHWTR 567G	Fish Health	3
FRSHWTR 583G	Cost-Benefit Analysis for Environmental Resource Decisions	3
FRSHWTR 584G	Aquatic Ecosystem Services Valuation	3
FRSHWTR 585G	Applied Water Statistics and Data Manipulation	3
FRSHWTR 630G	Leadership in Science: Tackling Wicked Problems	3
FRSHWTR 640G	Sequence Analysis	3
FRSHWTR 781	Water Law for Scientists and Policy Makers	3
FRSHWTR 810	Professional Development for Water Leaders	3
FRSHWTR 890	Science Communication	3

#### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. Before a student takes a G level course, they must have a cumulative undergraduate grade point

average (GPA) of 2.75. Undergraduate students must maintain an overall GPA of at least 2.75.

Students should indicate their intent to apply to the Accelerated Graduate Degree program by the completion of their 5th semester of coursework in the undergraduate bachelor's degree. This allows them to be eligible to take graduate-level courses during their undergraduate career in the 7th semester, and progress to their graduate career by semester 8.

In addition to the minimum GPA requirements, students must submit the following materials to the School of Freshwater Sciences:

- Declaration of intent to apply for an accelerated graduate program.
- A 1-2 page personal statement that explains the students' interest in a particular field of study and reasons for desiring to enter the accelerated program.
- A recommendation letter from a faculty member who can speak to the applicant's critical thinking and writing skills, and ability to manage an increased workload.

Approved enrollment into graduate-level coursework during an undergraduate career does not guarantee admission to graduate school as part of the Accelerated Graduate Degree. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a graduate degree.

### Graduate School Admission Requirements

To be considered for admission into Graduate School prior to completing their bachelor's degree, students must meet the minimum criteria for admission established by the Freshwater Sciences, MS: Water Policy (Professional) program and the UWM Graduate School and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student.

Students who do not satisfactorily meet graduate school admissions criteria may continue with their Freshwater Sciences, BS degree.

### German, BA (<https://catalog.uwm.edu/letters-science/ancient-modern-languages-literatures-cultures/german-ba/>)/Translation and Interpreting Studies, MA (p. 1306)

This accelerated graduate degree involves the following bachelor's and master's degrees: German, BA and Translation and Interpreting Studies, MA. There are no forward-shared credits and 15 backward-shared credits for a total of 15 shared credits.

#### Eligible Forward-Shared Courses

This accelerated program does not allow any forward-shared credits.

#### Eligible Backward-Shared Courses

These courses fulfill requirements for the L&S undergraduate degree.

Code	Title	Credits
<b>Courses eligible for backward-shared credit</b>		
One of the following: 3		
GERMAN 483G	Seminar on German Studies:	
GERMAN 484G	Seminar on Themes and Motifs in German Literature:	
TRNSLTN 708	Introduction to Translation: German to English	3
TRNSLTN 709	Seminar in Literary and Cultural Translation	3

TRNSLTN 718	Seminar in Advanced German Translation	3
TRNSLTN 820	Translation Theory	3

### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree.

### Graduate Admissions Requirements

To be considered for admission into the Graduate School before completing the undergraduate degree, the student must meet the criteria for admission established by the TIS MA and the UWM Graduate School, and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student, and apply for admission no later than March 1st of their third year. In addition, they must:

- Submit a personal statement of goals, abilities, and reasons for pursuing the MA degree.
- Submit three letters of recommendation, of which at least two must be written by members of the German faculty.
- Take and pass the Translation Qualifying Exam no later than May of their third year.
- Meet the English proficiency level required by the Graduate School, as well as one of the following: a minimum TOEFL iBT score of 83; TOEFL CBT score of 220; or IELTS score of 6.5.

### Global Studies, BA (p. 1088)/Translation and Interpreting Studies, MA (p. 1306)

This accelerated graduate degree involves the following bachelor's and master's degrees: Global Studies (Communications track), BA and Translation and Interpreting Studies, MA. There are no forward-shared credits and a maximum of 15 backward-shared credits for a total of 15 shared credits.

#### Eligible Forward-shared Courses

This accelerated program does not allow any forward-shared credits.

#### Eligible Backward-shared Courses

These courses fulfill Letters and Science elective requirements for the undergraduate degree. Courses to be considered for backward sharing include the following:

Code	Title	Credits
<b>Courses approved for backward sharing</b>		
TRNSLTN 709	Seminar in Literary and Cultural Translation	3
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 726	Computer-Assisted Translation	3
TRNSLTN 730	Internship in Translation/Interpreting	3
TRNSLTN 820	Translation Theory	3

### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. If eligible, students must meet the minimum UWM Graduate School GPA requirements before taking any graduate (G) level courses as an undergraduate student.

The program is open to students who have:

- achieved junior status;
- declared the Global Studies BA/Global Communications Track
- a cumulative undergraduate GPA of 3.25 or better;
- a GPA of 3.5 or better in the courses counting towards the Global Studies BA (including their language courses); and
- completed at least 60 of their undergraduate credit hours and at least 21 of their Global Studies BA credit hours at UWM.

### Graduate Admissions Requirements

To be considered for admission into Graduate School prior to completing the undergraduate degree, the student must meet the criteria for admission established by the TIS MA and the UWM Graduate School, and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student.

In addition, they must:

- Submit a personal statement of goals, abilities, and reasons for pursuing the MA degree.
- Submit three letters of recommendation, two of which must be written by members of the faculty in the department of the emphasized language, and one of which must be written by the instructor of a GLOBAL area code course.
- Take and pass the Translation Qualifying Exam, which is a requirement for admission to the Translation concentration of the MA program. It is recommended that the students do so in early November of their junior year, but they must do so no later than May of their third year.

### Human Resources Management, BBA (p. 270)/Information Technology Management, MS (p. 295)

This accelerated graduate degree involves the following bachelor's and master's degrees: Human Resources Management, BBA and Information Technology Management, MS. There are 6 forward-shared credits and 9 backward-shared credits for a total of 15 shared credits.

#### Eligible Forward-Shared Courses

Six graduate-level credits taken in undergraduate status may count toward Business Elective credits and share forward to the master's degree. Any of the required or elective course options in the Information Technology Management, MS program may be forward shared.

#### Eligible Backward-Shared Courses

Nine graduate credits may be shared backward as such:

- 3 credits of Business Electives
- 6 credits of General Electives

Any of the required or elective course options in the Information Technology Management, MS program may be backward shared. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

#### Undergraduate Requirements

The intent to pursue an accelerated graduate degree in Information Technology Management, MS may be declared with the student's undergraduate advisor upon advancement to the major and with a 3.00 cumulative GPA. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a master's degree.

### Graduate School Admissions Requirements

To be considered for admission into the Graduate School prior to completing their Bachelor's degree, students must meet the minimum criteria for admission established by the Information Technology Management, MS and the UWM Graduate School. Students who meet the minimum Graduate School admissions criteria with a 3.00 cumulative GPA as determined by the Graduate School will be waived from taking the GRE/GMAT and be guaranteed admittance to the Information Technology Management, MS. Those between a 2.75 and 2.99 cumulative GPA as determined by the Graduate School will be required to submit a GRE/GMAT score and will be subject to secondary review by Lubar Information Technology Management faculty.

Opting Out of the AGD as an Undergraduate Student (p. 38)

Opting Out of the AGD After Starting Graduate School (p. 38)

### Information Technology Management, BBA (p. 273)/Information Technology Management, MS (p. 295)

This accelerated graduate degree involves the following bachelor's and master's degrees: Information Technology Management, BBA and Information Technology Management, MS. There are 6 forward-shared credits and 12 backward-shared credits for a total of 18 shared credits.

#### Eligible Forward-Shared Courses

Six (6) graduate-level credits taken in undergraduate status will share forward credit towards the master's degree. Unless granted an exception by program faculty, all accelerated students will forward share the following courses: BUS ADM 749 and BUS ADM 810. BUS ADM 749 fulfills the BBA requirement, BUS ADM 434, and BUS ADM 810 counts towards an Information Technology Management, BBA major elective.

#### Eligible Backward-Shared Courses

Twelve (12) graduate credits may be shared backward as such:

- 9 credits of Business Electives
- 3 credits of General Electives

Any of the required or elective course options in the Information Technology Management, MS program may be backward shared. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

#### Undergraduate Requirements

The intent to pursue an accelerated degree in Information Technology Management, MS may be declared with the student's undergraduate advisor upon advancement to the major and with a 3.00 cumulative GPA. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a graduate degree.

### Graduate School Admissions Requirements

To be considered for admission into the Graduate School prior to completing their Bachelor's degree, students must meet the minimum criteria for admission established by the Information Technology Management, MS and the UWM Graduate School. Students who meet the minimum Graduate School admissions criteria with a 3.00 cumulative GPA as determined by the Graduate School will be waived from taking the GRE/GMAT and be guaranteed admittance to the Information Technology Management, MS. Those between a 2.75 and 2.99 cumulative GPA as determined by the Graduate School will be required to submit a GRE/

GMAT score and will be subject to secondary review by Lubar Information Technology Management faculty.

Opting Out of the AGD as an Undergraduate Student (p. 38)

Opting Out of the AGD After Starting Graduate School (p. 38)

### Information Science and Technology, BS (p. 484)/Information Science and Technology, MS (p. 487)

This accelerated graduate degree involves the following bachelor's and master's degrees: Information Science and Technology, BS (BSIST) and Information Science and Technology, MS (MSIST).

There are 6 forward-shared credits and 15 backward-shared credits for a total of 21 shared credits.

#### Eligible Forward-shared Courses

Eligible Forward-shared Courses must be approved by the advisor. Any pre-approved MSIST required or elective course can be shared forward. Courses must be taken at the G level.

#### Eligible Backward-shared Courses

Any course approved to count toward the MSIST can be shared backward to fulfill a major elective or general elective for the bachelor's degree; and fulfill a required or elective course for the master's degree.

#### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. Students must have a GPA of 3.0 in the major for admission to the accelerated program, with no active incompletes or retakes of Information Science and Technology courses.

Undergraduate students must maintain an overall GPA of at least 2.75 and a GPA of at least 3.0 in the major area of study.

#### Graduate School Admission Requirements

To be considered for admission into Graduate School prior to completing their bachelor's degree, students must meet the minimum criteria for admission established by the MS in Information Science and Technology and the UWM Graduate School and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student. Students who do not satisfactorily meet graduate school admissions criteria may continue with their BS in Information Science and Technology.

### Information Science and Technology, BS (p. 484)/Library and Information Science, MLIS (p. 493)

This accelerated graduate degree involves the following bachelor's and master's degrees: Information Science and Technology, BS (BSIST) and Master of Library and Information Science (MLIS).

There are 6 forward shared credits and 15 backward shared credits for a total of 21 shared credits.

#### Eligible Forward Shared Credit Courses

Eligible Forward Shared Credit Courses must be approved by the advisor. Any pre-approved MLIS required or elective course can be used for forward shared credits. Courses must be taken at the G level.

#### Eligible Backward Shared Credit Courses

Any course approved to count toward the MLIS can be backward counted for shared credit to fulfill a major elective or general elective for the

bachelor's degree; and fulfill a required or elective course for the master's degree.

#### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated master's degree. Students must have a GPA of 3.0 in the major for admission to the accelerated program, with no active incompletes or retakes of Library and Information Science courses.

Undergraduate students must maintain an overall GPA of at least 3.25 and a GPA of at least 3.5 in the major area of study.

#### Graduate School Admission Requirements

To be considered for admission into Graduate School prior to completing their Bachelor's degree, students must meet the minimum criteria for admission established by the Master of Library and Information Science and the UWM Graduate School and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student. Students who do not satisfactorily meet graduate school admissions criteria may continue with their BS in Information Science and Technology.

### Kinesiology, BS (p. 1347)/Athletic Training, MS (p. 787)

This accelerated graduate degree involves the following bachelor's and master's degrees: Kinesiology, BS and Athletic Training, MS. There are 6 forward-shared credits and 28 backward-shared credits for a total of 34 shared credits.

#### Eligible Forward-Shared Courses

Six (6) graduate-level credits taken in undergraduate status may forward share toward the Athletic Training MS.

Code	Title	Credits
KIN 550G	Psychological Aspects of Human Movement	3
PRPP 551G	Psychology of Injury: Prevention, Rehabilitation & Return to Participation	3

#### Eligible Backward-Shared Courses

Twenty-eight (28) graduate credits may be shared backward toward the Kinesiology BS.

Code	Title	Credits
ATRIN 725	Gross Anatomical Kinesiology	4
ATRIN 710	Prevention & Care of Emergent Medical Conditions in Athletic Training	4
ATRIN 701	Athletic Training Foundational Skills	1
ATRIN 785	Clinical Education in Athletic Training: I	1
ATRIN 747	Clinical Exam and Diagnosis of the Lower Extremity in Athletic Training	3
ATRIN 757	Foundations of Therapeutic Interventions in Athletic Training	3
ATRIN 726	Pathoetiology of Musculoskeletal Injury	1
ATRIN 702	Ethics in Healthcare	1
ATRIN 703	Foundations of Interprofessional Practice	1
ATRIN 786	Clinical Education in Athletic Training: II	2
ATRIN 748	Clinical Exam and Diagnosis of the Head and Spine in Athletic Training	3
ATRIN 753	Medical Physiology II	3

## Undergraduate Requirements

Students will be admitted as “accelerated BS in Kinesiology/MS in Athletic Training Intended” majors. To be permitted to enroll in U/G courses at the graduate level of work during the junior year with the intention of forward sharing them toward the master’s degree later the student must meet the following criteria:

- Have a UWM cumulative grade point average (GPA) of 3.0 or higher
- Completion of all GERs
- Complete the following prerequisite courses with a grade of “C” or better or be in progress at the time of application submission:

Code	Title	Credits
PSYCH 101	Introduction to Psychology	3
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
CHEM 100	Chemical Science	4
KIN 270	Statistics in the Health Professions: Theory and Practice	3
PHYSICS 120	General Physics I (Non-Calculus Treatment)	4
PHYSICS 121	General Physics Laboratory I (Non-Calculus Treatment)	1

## Graduate School Admission Requirements

Admission to the Graduate School and the professional phase of the MS in Athletic Training program is selective and occurs during February-March of the junior year. In order to be considered for admission to the professional phase of the accelerated program students must meet the following requirements:

- An essay explaining the student’s interest in the athletic training profession.
- A cumulative grade point average (GPA) of 3.0 or higher.
- Complete the following prerequisite courses with a grade of “C” or better or be in progress at the time of application submission:

Code	Title	Credits
KIN 320	Biomechanics	3
KIN 330	Exercise Physiology	4
NUTR 235	Introduction to Nutrition for the Health Professions	3

- Completion of 20 hours of observation of athletic training practice with a certified athletic trainer within 12 months of application submission. This requirement can be met in the KIN 312 Introduction to Athletic Training course.
- Two letters of recommendation attesting to the student’s maturity and suitability for graduate education in a health profession. One letter must be an academic reference, the other letter must be from the athletic trainer with whom the student completed the majority of their observation hours.
- Completion of an interview with the MS in Athletic Training Admissions Committee.

## Latin American, Caribbean, and U.S. Latinx Studies, BA (p. 1171)/Translation and Interpreting Studies, MA (p. 1306)

This accelerated graduate degree involves the following bachelor’s and master’s degrees: Latin American, Caribbean, and U.S. Latinx Studies, BA and Translation and Interpreting Studies, MA. There are 0 forward-shared credits and 15 backward-shared credits for a total of 15 shared credits.

### Eligible Forward-shared Courses

This accelerated program does not allow any forward-shared credits.

### Eligible Backward-shared Courses

These courses fulfill requirements as electives for the L&S BA degree. Courses eligible for backward sharing include:

Code	Title	Credits
<b>Courses eligible for backward-shared credit</b>		
TRNSLTN 706	Introduction to Translation: French to English <sup>1</sup>	3
TRNSLTN 707	Introduction to Translation: Spanish to English <sup>2</sup>	3
TRNSLTN 709	Seminar in Literary and Cultural Translation	3
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 716	Seminar in Advanced Translation: French to English <sup>1</sup>	3
TRNSLTN 717	Seminar in Advanced Translation: Spanish to English <sup>2</sup>	3
TRNSLTN 730	Internship in Translation/Interpreting	3
TRNSLTN 820	Translation Theory	3

<sup>1</sup> If taking TRNSLTN 706 the student must also take TRNSLTN 716, and none of the other language pair courses.

<sup>2</sup> If taking TRNSLTN 707 the student must also take TRNSLTN 717, and none of the other language pair courses.

## Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. This program is available to LACUSL students with language specializations in either French or Spanish.

The accelerated LACUSL BA/TIS MA program is open to students who have:

- Declared a Major in LACUSL.
- A cumulative undergraduate GPA of 3.25 or better, and a GPA in their major of 3.5 or better.
- Completed at least 60 of their undergraduate credit hours and at least 15 of their LACUSL credit hours at UWM.
- Completed the major requirements (24 credits) for an undergraduate major in LACUSL.

## Graduate Admissions Requirements

To be considered for admission into Graduate School prior to completing their Bachelor’s degree, the student must meet the criteria for admission established by the TIS MA and the UWM Graduate School, and be in progress to complete 105 bachelor’s credits prior to their first term as a graduate student. The student should apply to the graduate program by March 1st of their junior year. If students are studying abroad for the

spring semester, they are encouraged to submit their application before December 1 of their junior year. In addition, they must

- Submit a personal statement of goals, abilities, and reasons for pursuing the Translation and Interpreting Studies degree
- Submit three letters of recommendation, of which at least two must be written by members of the LACUSL affiliated faculty
- Take and pass the Translation Qualifying Exam no later than May of their third year.

### Marketing, BBA (p. 276)/Information Technology Management, MS (p. 295)

This accelerated graduate degree involves the following bachelor's and master's degrees: Marketing, BBA and Information Technology Management, MS. There are 6 forward-shared credits and 9 backward-shared credits for a total of 15 shared credits.

#### Eligible Forward-Shared Courses

Six (6) graduate-level credits taken in undergraduate status may count toward Business Elective credits and share forward to the master's degree. Any of the required or elective course options in the Information Technology Management, MS program may be forward shared.

#### Eligible Backward-Shared Courses

Nine (9) graduate credits may be shared backward as such:

- 3 credits of Business Electives
- 6 credits of General Electives

Any of the required or elective course options in the Information Technology Management, MS program may be backward shared. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

#### Undergraduate Requirements

The intent to pursue an accelerated degree in Information Technology Management, MS may be declared with the student's undergraduate advisor upon advancement to the major and with a 3.00 cumulative GPA. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a master's degree.

#### Graduate School Admissions Requirements

To be considered for admission into the Graduate School prior to completing their Bachelor's degree, students must meet the minimum criteria for admission established by the Information Technology Management, MS and the UWM Graduate School. Students who meet the minimum Graduate School admissions criteria with a 3.00 cumulative GPA as determined by the Graduate School will be waived from taking the GRE/GMAT and be guaranteed admittance to the Information Technology Management, MS. Those between a 2.75 and 2.99 cumulative GPA as determined by the Graduate School will be required to submit a GRE/GMAT score and will be subject to secondary review by Lubar Information Technology Management faculty.

Opting Out of the AGD as an Undergraduate Student (p. 38)

Opting Out of the AGD After Starting Graduate School (p. 38)

### Marketing, BBA (p. 276)/Management, MS: Marketing (p. 303)

This accelerated graduate degree involves the following bachelor's and master's degrees: Marketing, BBA and Management, MS: Marketing.

There are 6 forward-shared credits and 12 backward-shared credits for a total of 18 shared credits.

#### Eligible Forward-Shared Courses

Six (6) graduate-level credits taken in undergraduate status may count toward Business Elective credits and shared forward to the master's degree. Any of the required or elective course options in the Management, MS: Marketing program may be forward shared.

#### Eligible Backward-Shared Courses

Twelve (12) graduate credits may be shared backward as such: up to 3 credits of Marketing Major Electives, 6 credits of Business Electives, and 3 credits of General Electives. Any of the required or elective course options in the Management, MS: Marketing program may be backward shared. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

#### Undergraduate Requirements

The intent to pursue an accelerated degree in Management, MS: Marketing may be declared with the student's undergraduate advisor upon advancement to the major and with a 3.00 cumulative GPA.

Students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a graduate degree.

#### Graduate School Admissions Requirements

To be considered for admission into the Graduate School prior to completing their Bachelor's degree, students must meet the minimum criteria for admission established by the Management, MS: Marketing and the UWM Graduate School. Students who meet the minimum Graduate School admissions criteria with a 3.00 cumulative GPA as determined by the Graduate School will be waived from taking the GRE/GMAT and be guaranteed admittance to the Management, MS: Marketing. Those between a 2.75 and 2.99 cumulative GPA as determined by the Graduate School will be required to submit a GRE/GMAT score and will be subject to secondary review by Lubar Marketing faculty.

#### Graduate Requirements

NOTE: Bus Adm 708: Marketing Strategy is a required course in the MS-Marketing program. Since Bus Adm 708 was designed for students with minimal previous exposure to marketing concepts, accelerated students, all of whom will have extensive undergraduate marketing coursework, will be allowed to take a Management, MS: Marketing elective from the approved list in place of Bus Adm 708.

Opting Out of the AGD as an Undergraduate Student (p. 38)

Opting Out of the AGD After Starting Graduate School (p. 38)

### Physics, BS (p. 1227)/Physics, MS (p. 1232)

This accelerated graduate degree involves the following bachelor's and master's degrees: Physics, BS and Physics, MS.

There are 6 (or 7) forward-shared credits and 15 backward-shared credits for a total of 21 (or 22) shared credits. As an exception to the usual forward sharing credit maximum, 7 forward-shared credits will be allowed if credits in PHYSICS 411G or PHYSICS 441G are forward-shared because these are 4-credit courses rather than 3-credit courses.

#### Eligible Forward-Shared Courses

Any Physics course at the 400-level or higher that can be taken at the G level is eligible for forward-sharing. Forward-shared Courses must be taken at the G level.



### Eligible Backward-Shared Courses

Any graduate-level Physics course can be shared backward to fulfill a major required or elective course for the bachelor's degree; and fulfill a required or elective course for the master's degree.

### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. Students must have a GPA of 3.0 in the major for admission to the accelerated program, with no active incompletes or retakes of Physics courses.

Undergraduate students must maintain an overall GPA of at least 3.0 and a GPA of at least 3.0 in the major area of study.

### Graduate School Admission Requirements

To be considered for admission into Graduate School prior to completing their bachelor's degree, students must meet the minimum criteria for admission established by the MS in Physics and the UWM Graduate School and be in progress to complete 105 bachelor's credits prior to their first term as a graduate student. Students who do not satisfactorily meet graduate school admissions criteria may continue with their BS in Physics.

### Public Health, BS (p. 1363)/Public Health, MPH: Community and Behavioral Health Promotion (p. 1372)

This accelerated graduate degree involves the following bachelor's and master's degrees: Public Health, BS and Public Health, MPH: Community and Behavioral Health Promotion. There are up to 9 forward shared credits and up to 21 backward shared credits for a total up to 30 shared credits.

### Eligible Forward Shared Courses

Nine (9) graduate-level credits taken in undergraduate status may count towards the MPH. These credits may include any of the required or elective course options for the MPH degree except PH 800. PH 708 fulfills the BSPH requirement for PH 408.

### Eligible Backward Shared Courses

All courses that count toward the MPH degree may be shared backward toward the BSPH except PH 800. PH 790 fulfills the PH 600 requirement for the BSPH.

### Undergraduate Requirements

**Application to the Public Health, BS/Public Health, MPH: Community and Behavioral Health Promotion program consists of two steps:**

1. Internal application to the Zilber College for acceptance into the accelerated MPH.
2. After internally accepted, students will formally apply to the UWM Graduate School in fall year 4.

*Before students can enroll in any forward shared credit graduate MPH courses, students must apply to the Zilber College for acceptance into the accelerated MPH. Applications will usually be due by February 1 of their junior year. All students must demonstrate that they have completed sufficient coursework to apply. Working with their Zilber College academic advisor, students must demonstrate that they will complete the following before entering graduate status at the beginning of the spring semester of their senior year (or equivalent year for transfer students):*

1. *all public health major coursework except those to be backward shared (e.g., PH 600);*

2. *all GER and BSPH Foundations coursework; and*
3. *at least 99 credits towards the BSPH degree.*

Students who meet the coursework minimums and have earned a minimum cumulative GPA of 3.700 in their undergraduate coursework at the time of their application to the accelerated MPH will be guaranteed admission to the Public Health, BS/Public Health, MPH: Community and Behavioral Health Promotion program. To apply, they simply need to complete an application form (including a statement of purpose) that indicates their MPH track of choice and declares their intent to pursue the accelerated MPH. Zilber College program staff will obtain unofficial transcripts to support the application.

Students who meet the coursework minimums and have earned a cumulative GPA between 3.000 and 3.699 can apply for selective admission. The application will consist of:

- Application form (including statement of purpose) that indicates their first and second ranked choice of MPH concentrations, and intent to pursue the accelerated MPH;
- Two letters of recommendation consisting of one from a BSPH course instructor and one from someone other than a BSPH course instructor (e.g., an instructor of a course outside the public health major or a work or volunteer supervisor). The letters will assess the students' academic and intellectual strengths and weaknesses, and their maturity and suitability for an accelerated MPH program; and
- Unofficial transcripts obtained by Zilber College program staff.

Students will usually be informed by March 15 if they have been accepted into the accelerated MPH program. If they are not accepted into the program, they can continue their BSPH studies and then apply to the standard MPH Program.

All students admitted to the program will be considered for any available Zilber College scholarships to cover tuition and other fees while in graduate student status.

*While in undergraduate status and taking forward shared graduate coursework, students must complete the same academic work and follow the same performance standards as graduate students in the MPH program.*

Most Community and Behavioral Health Promotion concentration students in the accelerated MPH will satisfy all requirements for their BSPH degree either at the end of summer of their 4th year or at the end of the fall semester of their 5th year.

### Graduate School Admissions Requirements

**Application to UWM Graduate School:** Once students have been *internally* accepted into the accelerated MPH program they must formally apply to the UWM Graduate School via Panthera. The Zilber College graduate advisor will email students with instructions on how to apply in early fall of their first semester in the accelerated MPH program.

Approved admission to the accelerated MPH program allows the student to enroll in 9 graduate credits of coursework during the fall of their senior year while they remain in undergraduate student status. Students *must meet minimum grade standards in their forward shared graduate courses* to begin graduate student status in the spring of their senior year. These graduate courses can fulfill requirements for the BSPH degree even if students do not meet these Graduate School minimums.

### **Maintaining Admission to the Graduate School and Starting Graduate Student Status:**

Admission to this program and to the Graduate School is described above. Students will begin their graduate career at the beginning of the spring semester of their senior (4th or equivalent for transfer students) year. To maintain admission to the Graduate School and begin graduate student status prior to completing their bachelor's degree, students must meet the following minimum Graduate School standards:

- Earn at least a "B" or better in each graduate course that will be forward share toward the MPH degree; and
- Have a minimum cumulative GPA of 2.75 on a 4.0 scale for all undergraduate coursework complete to date.

Once students begin graduate student status, they will complete the remaining up to 21 credits for their BSPH through backward shared graduate coursework. Students who do not satisfactorily meet minimum Graduate Student standards in their last semester of undergraduate status (through Winterim session of their senior year), may continue with their BSPH and graduate in spring of their senior year.

### **Public Health, BS (p. 1363)/Public Health, MPH: Environmental Health Sciences (p. 1374)**

This accelerated graduate degree involves the following bachelor's and master's degrees: Public Health, BS and Public Health, MPH: Environmental Health Sciences. There are up to 9 forward shared credits and up to 20 backward shared credits for a total up to 29 shared credits.

#### **Eligible Forward Shared Courses**

Nine (9) graduate-level credits taken in undergraduate status may count towards the MPH. These credits may include any of the required or elective course options for the MPH degree except PH 800. PH 708 fulfills the BSPH requirement for PH 408.

#### **Eligible Backward Shared Courses**

All courses that count toward the MPH degree may be shared backward toward the BSPH except PH 800. PH 790 fulfills the PH 600 requirement for the BSPH.

#### **Undergraduate Requirements**

**Application to the Public Health, BS/Public Health, MPH: Environmental Health Sciences program consists of two steps:**

1. Internal application to the Zilber College for acceptance into the accelerated MPH.
2. After internally accepted, students will formally apply to the UWM Graduate School in fall year 4.

*Before students can enroll in any forward shared graduate MPH courses, students must apply to the Zilber College for acceptance into the accelerated MPH. Applications will usually be due by February 1 of their junior year. All students must demonstrate that they have completed sufficient coursework to apply. Working with their Zilber College academic advisor, students must demonstrate that they will complete the following before entering graduate status at the beginning of the spring semester of their senior year (or equivalent year for transfer students):*

1. *all* public health major coursework except those to be backward shared (e.g., PH 600);
2. *all* GER and BSPH Foundations coursework; and
3. at least 100 credits towards the BSPH degree.

Students who meet the coursework minimums and have earned a minimum cumulative GPA of 3.700 in their undergraduate coursework at the time of their application to the accelerated MPH will be guaranteed admission to the Public Health, BS/Public Health, MPH: Environmental Health Sciences program. To apply, they simply need to complete an application form (including a statement of purpose) that indicates their MPH concentration of choice and declares their intent to pursue the accelerated MPH. Zilber College program staff will obtain unofficial transcripts to support the application.

Students who meet the coursework minimums and have earned a cumulative GPA between 3.000 and 3.699 can apply for selective admission. The application will consist of:

- Application form (including statement of purpose) that indicates their first and second ranked choice of MPH concentrations, and intent to pursue the accelerated MPH;
- Two letters of recommendation consisting of one from a BSPH course instructor and one from someone other than a BSPH course instructor (e.g., an instructor of a course outside the public health major or a work or volunteer supervisor). The letters will assess the students' academic and intellectual strengths and weaknesses, and their maturity and suitability for an accelerated MPH program; and
- Unofficial transcripts obtained by Zilber College program staff.

Students will usually be informed by March 15 if they have been accepted into the accelerated MPH program. If they are not accepted into the program, they can continue their BSPH studies and then apply to the standard MPH Program.

All students admitted to the program will be considered for any available Zilber College scholarships to cover tuition and other fees while in graduate student status.

*While in undergraduate status and taking forward shared graduate coursework, students must complete the same academic work and follow the same performance standards as graduate students in the MPH program.*

Most EHS concentration students in the accelerated MPH will satisfy all requirements for their BSPH degree either at the end of summer of their 4th year or at the end of the fall semester of their 5th year.

#### **Graduate School Admissions Requirements**

**Application to UWM Graduate School:** Once students have been *internally* accepted into the accelerated MPH program, they must formally apply to the UWM Graduate School via Panthera. The Zilber College graduate advisor will email students with instructions on how to apply in early fall of their first semester in the accelerated MPH program.

Approved admission to the accelerated MPH program allows the student to enroll in 9 graduate credits of coursework during the fall of their senior year while they remain in undergraduate student status. Students *must meet minimum grade standards in their forward shared graduate courses* to begin graduate student status in the spring of their senior year. These graduate courses can fulfill requirements for the BSPH degree even if students do not meet these Graduate School minimums.

### **Maintaining Admission to the Graduate School and Starting Graduate Student Status:**

Admission to this program and to the Graduate School is described above. Students will begin their graduate career at the beginning of the spring semester of their senior (4th or equivalent for transfer students) year. To maintain admission to the Graduate School and begin graduate

student status prior to completing their bachelor's degree, students must meet the following minimum Graduate School standards:

- Earn at least a "B" or better in each graduate course that will be forward counted toward the MPH degree; and
- Have a minimum cumulative GPA of 2.75 on a 4.0 scale for all undergraduate coursework complete to date.

Once students begin graduate student status, they will complete the remaining up to 20 credits for their BSPH through backward shared graduate coursework. Students who do not satisfactorily meet minimum Graduate Student standards in their last semester of undergraduate status (through Winterim session of their senior year) may continue with their BSPH and graduate in spring of their senior year.

## Public Health, BS (p. 1363)/Public Health, MPH: Epidemiology (p. 1377)

This accelerated graduate degree involves the following bachelor's and master's degrees: Public Health, BS and Public Health, MPH: Epidemiology. There are up to 9 forward share credits and up to 21 backward shared credits for a total up to 30 shared credits.

### Eligible Forward Shared Courses

Nine (9) graduate-level credits taken in undergraduate status may count towards the MPH. These credits may include any of the required or elective course options for the MPH degree except PH 800. PH 708 fulfills the BSPH requirement for PH 408.

### Eligible Backward Shared Courses

All courses that count toward the MPH degree may be shared backward toward the BSPH except PH 800. PH 790 fulfills the PH 600 requirement for the BSPH.

### Undergraduate Requirements

**Application to the Public Health, BS/Public Health, MPH: Epidemiology program consists of two steps:**

1. Internal application to the Zilber College for acceptance into the accelerated MPH.
2. After internally accepted, students will formally apply to the UWM Graduate School in fall year 4.

*Before students can enroll in any forward shared graduate MPH courses, students must apply to the Zilber College for acceptance into the accelerated MPH. Applications will usually be due by February 1 of their junior year. All students must demonstrate that they have completed sufficient coursework to apply. Working with their Zilber College academic advisor, students must demonstrate that they will complete the following before entering graduate status at the beginning of the spring semester of their senior year (or equivalent year for transfer students):*

1. *all* public health major coursework except those to be backward shared (e.g., PH 600);
2. *all* GER and BSPH Foundations coursework; and
3. at least 99 credits towards the BSPH degree.

Students who meet the coursework minimums and have earned a minimum cumulative GPA of 3.700 in their undergraduate coursework at the time of their application to the accelerated MPH will be guaranteed admission to the Public Health, BS/Public Health, MPH: Epidemiology. To apply, they simply need to complete an application form (including a statement of purpose) that indicates their MPH concentration of choice

and declares their intent to pursue the accelerated MPH. Zilber College program staff will obtain unofficial transcripts to support the application.

Students who meet the coursework minimums and have earned a cumulative GPA between 3.000 and 3.699 can apply for selective admission. The application will consist of:

- Application form (including statement of purpose) that indicates their first and second ranked choice of MPH concentrations, and intent to pursue the accelerated MPH;
- Two letters of recommendation consisting of one from a BSPH course instructor and one from someone other than a BSPH course instructor (e.g., an instructor of a course outside the public health major or a work or volunteer supervisor). The letters will assess the students' academic and intellectual strengths and weaknesses, and their maturity and suitability for an accelerated MPH program; and
- Unofficial transcripts obtained by Zilber College program staff.

Students will usually be informed by March 15 if they have been accepted into the accelerated MPH program. If they are not accepted into the program, they can continue their BSPH studies and then apply to the standard MPH Program.

All students admitted to the program will be considered for any available Zilber College scholarships to cover tuition and other fees while in graduate student status.

*While in undergraduate status and taking forward shared graduate coursework, students must complete the same academic work and follow the same performance standards as graduate students in the MPH program.*

### Graduate School Admissions Requirements

**Application to UWM Graduate School:** Once students have been *internally* accepted into the accelerated MPH program, they must formally apply to the UWM Graduate School via Panthera. The Zilber College graduate advisor will email students with instructions on how to apply in early fall of their first semester in the accelerated MPH program.

Approved admission to the accelerated MPH program allows the student to enroll in 9 graduate credits of coursework during the fall of their senior year while they remain in undergraduate student status. Students *must meet minimum grade standards in their forward shared graduate courses* to begin graduate student status in the spring of their senior year. These graduate courses can fulfill requirements for the BSPH degree even if students do not meet these Graduate School minimums.

### Maintaining Admission to the Graduate School and Starting Graduate Student Status:

Admission to this program and to the Graduate School is described above. Students will begin their graduate career at the beginning of the spring semester of their senior (4th or equivalent for transfer students) year. To maintain admission to the Graduate School and begin graduate student status prior to completing their bachelor's degree, students must meet the following minimum Graduate School standards:

- Earn at least a "B" or better in each graduate course that will be forward shared toward the MPH degree; and
- Have a minimum cumulative GPA of 2.75 on a 4.0 scale for all undergraduate coursework complete to date.

Once students begin graduate student status, they will complete the remaining up to 21 credits for their BSPH through backward shared graduate coursework. Students who do not satisfactorily meet minimum Graduate Student standards in their last semester of undergraduate

status (through Winterim session of their senior year), may continue with their BSPH and graduate in spring of their senior year.

## Public Health, BS (p. 1363)/Public Health, MPH: Public Health Policy (p. 1381)

This accelerated graduate degree involves the following bachelor's and master's degrees: Public Health, BS and Public Health, MPH: Public Health Policy. There are up to 9 forward shared credits and up to 21 backward shared credits for a total up to 30 shared credits.

### Eligible Forward Shared Courses

Nine (9) graduate-level credits taken in undergraduate status may count towards the MPH. These credits may include any of the required or elective course options for the MPH degree except PH 800. PH 708 fulfills the BSPH requirement for PH 408.

### Eligible Backward Shared Courses

All courses that count toward the MPH degree may be shared backward toward the BSPH except PH 800. PH 790 fulfills the PH 600 requirement for the BSPH.

### Undergraduate Requirements

**Application to the Public Health, BS/Public Health, MPH: Public Health Policy program consists of two steps:**

1. Internal application to the Zilber College for acceptance into the accelerated MPH.
2. After internally accepted, students will formally apply to the UWM Graduate School in fall year 4.

*Before students can enroll in any forward shared graduate MPH courses, students must apply to the Zilber College for acceptance into the accelerated MPH. Applications will usually be due by February 1 of their junior year. All students must demonstrate that they have completed sufficient coursework to apply. Working with their Zilber College academic advisor, students must demonstrate that they will complete the following before entering graduate status at the beginning of the spring semester of their senior year (or equivalent year for transfer students):*

1. *all* public health major coursework except those to be backward shared (e.g., PH 600);
2. *all* GER and BSPH Foundations coursework; and
3. at least 99 credits towards the BSPH degree.

Students who meet the coursework minimums and have earned a minimum cumulative GPA of 3.700 in their undergraduate coursework at the time of their application to the accelerated MPH will be guaranteed admission to the Public Health, BS/Public Health, MPH: Public Health Policy program. To apply, they simply need to complete an application form (including a statement of purpose) that indicates their MPH concentration of choice and declares their intent to pursue the accelerated MPH. Zilber College program staff will obtain unofficial transcripts to support the application.

Students who meet the coursework minimums and have earned a cumulative GPA between 3.000 and 3.699 can apply for selective admission. The application will consist of:

- Application form (including statement of purpose) that indicates their first and second ranked choice of MPH concentrations, and intent to pursue the accelerated MPH;
- Two letters of recommendation consisting of one from a BSPH course instructor and one from someone other than a BSPH course

instructor (e.g., an instructor of a course outside the public health major or a work or volunteer supervisor). The letters will assess the students' academic and intellectual strengths and weaknesses, and their maturity and suitability for an accelerated MPH program; and

- Unofficial transcripts obtained by Zilber College program staff.

Students will usually be informed by March 15 if they have been accepted into the accelerated MPH program. If they are not accepted into the program, they can continue their BSPH studies and then apply to the standard MPH Program.

All students admitted to the program will be considered for any available Zilber College scholarships to cover tuition and other fees while in graduate student status.

*While in undergraduate status and taking forward shared graduate coursework, students must complete the same academic work and follow the same performance standards as graduate students in the MPH program.*

### Graduate School Admissions Requirements

**Application to UWM Graduate School:** Once students have been *internally* accepted into the accelerated MPH program they must formally apply to the UWM Graduate School via Panthera. The Zilber College graduate advisor will email students with instructions on how to apply in early fall of their first semester in the accelerated MPH program.

Approved admission to the accelerated MPH program allows the student to enroll in 9 graduate credits of coursework during the fall of their senior year while they remain in undergraduate student status. Students *must meet minimum grade standards in their forward shared graduate courses* to begin graduate student status in the spring of their senior year. These graduate courses can fulfill requirements for the BSPH degree even if students do not meet these Graduate School minimums.

### Maintaining Admission to the Graduate School and Starting Graduate Student Status:

Admission to this program and to the Graduate School is described above. Students will begin their graduate career at the beginning of the spring semester of their senior (4th or equivalent for transfer students) year. To maintain admission to the Graduate School and begin graduate student status prior to completing their bachelor's degree, students must meet the following minimum Graduate School standards:

- Earn at least a "B" or better in each graduate course that will be forward shared toward the MPH degree; and
- Have a minimum cumulative GPA of 2.75 on a 4.0 scale for all undergraduate coursework complete to date.

Once students begin graduate student status, they will complete the remaining up to 21 credits for their BSPH through backward shared graduate coursework. Students who do not satisfactorily meet minimum Graduate Student standards in their last semester of undergraduate status (through Winterim session of their senior year), may continue with their BSPH and graduate in spring of their senior year.

## Supply Chain and Operations Management, BBA (p. 279)/Digital Supply Chain Management, MS (p. 283)

This accelerated graduate degree involves the following bachelor's and master's degrees: Supply Chain and Operations Management, BBA and Digital Supply Chain Management, MS. There are 6 forward-shared credits and 9 backward-shared credits for a total of 15 shared credits.

### Eligible Forward-Shared Courses

Six graduate-level credits taken in undergraduate status may count toward Business Elective credits and share forward to the master's degree. Any of the required or elective course options in the Digital Supply Chain Management, MS program may be shared forward.

### Eligible Backward-Shared Courses

Nine graduate credits may be backward shared credit as such:

- 3 credits of Supply Chain and Operations Management Major Credits (required or elective)
- 6 credits of Business Electives

Any of the required or elective course options in the Digital Supply Chain Management, MS program may be shared backward. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

### Undergraduate Requirements

The intent to pursue an accelerated degree in Digital Supply Chain Management, MS may be declared with the student's undergraduate advisor upon advancement to the major and with a 3.00 cumulative GPA. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a master's degree.

### Graduate School Admission Requirements

To be considered for admission into the Graduate School prior to completing their bachelor's degree, students must meet the minimum criteria for admission established by the Digital Supply Chain Management, MS and the UWM Graduate School. Students who meet the minimum Graduate School admissions criteria with a 3.00 cumulative GPA as determined by the Graduate School will be waived from taking the GRE/GMAT and be guaranteed admittance to the Digital Supply Chain Management, MS. Those between a 2.75 and 2.99 cumulative GPA as determined by the Graduate School will be required to submit a GRE/GMAT score and will be subject to secondary review by Lubar Digital Supply Chain Management faculty.

Opting Out of the AGD as an Undergraduate Student (p. 38)

Opting Out of the AGD After Starting Graduate School (p. 38)

### Supply Chain and Operations Management, BBA (p. 279)/Information Technology Management, MS (p. 295)

This accelerated graduate degree involves the following bachelor's and master's degrees: Supply Chain and Operations Management, BBA and Information Technology Management, MS. There are 6 forward-shared credits and 9 backward-shared credits for a total of 15 shared credits.

### Eligible Forward-Shared Courses

Six graduate-level credits taken in undergraduate status may count toward Business Elective credits and share forward to the master's degree. Any of the required or elective course options in the Information Technology Management, MS program may be shared forward.

### Eligible Backward-Shared Courses

Nine graduate credits may be shared backward credit as such:

- 3 credits of Business Electives
- 6 credits of General Electives

Any of the required or elective course options in the Information Technology Management, MS program may be backward shared. Additional graduate-level courses may be selected and substituted with approval from advisor and course instructor.

### Undergraduate Requirements

The intent to pursue an accelerated degree in Information Technology Management, MS may be declared with the student's undergraduate advisor upon advancement to the major and with a 3.00 cumulative GPA. Per usual UWM Graduate School criteria, students must obtain a "B" or better in all courses taken at the graduate level that are to be counted toward a master's degree.

### Graduate School Admission Requirements

To be considered for admission into the Graduate School prior to completing their bachelor's degree, students must meet the minimum criteria for admission established by the Information Technology Management, MS and the UWM Graduate School. Students who meet the minimum Graduate School admissions criteria with a 3.00 cumulative GPA as determined by the Graduate School will be waived from taking the GRE/GMAT and be guaranteed admittance to the Information Technology Management, MS. Those between a 2.75 and 2.99 cumulative GPA as determined by the Graduate School will be required to submit a GRE/GMAT score and will be subject to secondary review by Lubar Information Technology Management faculty.

Opting Out of the AGD as an Undergraduate Student (p. 38)

Opting Out of the AGD After Starting Graduate School (p. 38)

### Urban Studies, BA (p. 1313)/Urban Planning, MUP (p. 91)

This accelerated graduate degree program involves the following bachelor's and master's degrees: Urban Studies (USP), BA and Urban Planning MUP. There are 9 forward-shared credits and 21 backward-shared credits for a total of 30 shared credits.

### Eligible Forward-shared Courses

Courses must be taken at the graduate (G) level and will count toward the MUP graduate requirement, and will also fulfill the Urban Studies major requirements.

Code	Title	Credits
<b>Courses approved for forward sharing</b>		
AFRIC 300G	Urban Violence	3
AFRIC 319G	African American Urban History	3
GEOG 441G	Geography of Cities and Metropolitan Areas	3
GEOG 443G	Cities of the World: Comparative Urban Geography	3
GEOG 464G	Environmental Problems	3
GEOG 520G	Physical Geography of the City	3
GEOG 540G	Globalization and the City	3
GEOG 564G	Urban Environmental Change and Social Justice	3
GEOG 826	Intermediate Geographic Information Science	4
HIST 450G	The History of Milwaukee	3
HIST 463G	History of the American City	3
POL SCI 450G	Urban Political Problems	3

POL SCI 452G	Administrative Law	3
URB STD 450G	Urban Growth and Development: A Global View	3

### Eligible Backward-shared Courses

These courses fulfill College of Letters & Sciences (L&S) electives for the undergraduate degree (a maximum of 30 credits outside of L&S may be counted toward the L&S BA).

Code	Title	Credits
<b>Courses approved for backward sharing</b>		
URBPLAN 701	Introduction to Land Use Planning	1
URBPLAN 702	Introduction to Planning Law	2
URBPLAN 711	Planning Theories and Practice	3
URBPLAN 720	Urban Development Theory and Planning	3
URBPLAN 721	Applied Planning Methods	3
URBPLAN 740	Data Analysis Methods I	3
URBPLAN 810	Planning Policy Analysis	6

### Undergraduate Requirements

Interested students must meet with an academic advisor to determine eligibility for the accelerated graduate degree. The Accelerated Master of Urban Planning requires students meet the following criteria:

- Minimum UWM cumulative grade point average (GPA) of 3.0 or higher.
- Completion of all General Education Requirements (GER).
- Junior standing.
- Declaration of major in Urban Studies with the intent to apply for the Accelerated Master of Urban Planning degree.

Students must meet these requirements before taking any graduate (G) level classes as an undergraduate student.

Approved enrollment into graduate level course work during an undergraduate career does not guarantee admission to the Master of Urban Planning as part of the accelerated Master of Urban Planning program. These courses fulfill requirements for the BA in Urban Studies, regardless of acceptance into Graduate School.

### Graduate Admissions Requirements

Admission to the professional phase of the Master of Urban Planning is selective and occurs in December-January of the junior (3rd) year. To be considered for admission into the Graduate School prior to completing their bachelor's degree, a student must meet the criteria for admission established by the MUP and the UWM Graduate School, and be in progress to complete 99 bachelor's credits prior to their first term as a graduate student. In addition, admission to the MUP requires:

- A cumulative UWM grade point average (GPA) of 3.0 or higher.
- Three letters of recommendation.

### External Programs

AGDs between external college or university programs and UWM are described in their Articulation Agreements. Contact those programs directly.

## Catalog Glossary

### Key to Course Numbering System

**100-299 Lower division courses** not open to graduate students for credit.

**300-699 Upper division courses** that may, if so designated, carry graduate credit. Courses with level "U" are offered for undergraduate credit only; courses with level "U/G" may be offered for undergraduate and/or graduate credit. Insofar as a course approved for graduate credit may not be offered for graduate credit in a given semester, the current schedule of classes (<https://catalog.uwm.edu/course-search/>) should be consulted. Junior standing is normally a minimum prerequisite for 300-699 courses that carry graduate credit.

**700-999 Graduate level courses** not open to undergraduate students for credit.

### Abbreviations in Course Descriptions

Abbreviation	Description
C	Co-requisite
conc enroll	Concurrent Enrollment
cons instr	Consent of Instructor
conc reg	Concurrent Registration
cons Dept Chair	Consent of Department Chair
cons Prog Dir	Consent of Program Director
cr	Credit(s)
equiv	Equivalent
ER	Enrollment Restriction
fr, soph, jr, sr, grad st	Freshman, Sophomore, Junior, Senior, Graduate Standing
intro	Introductory
lit-in-trans	Literature in Translation
max	Maximum
NC	Non-repeatable Co-requisite
NP	Non-repeatable Prerequisite
P	Prerequisite(s)
R	Recommended Course
sem	Semester
yr	Year

### Prerequisite Course Definitions

**R-Recommended Course:** A course that the instructor strongly recommends be taken prior to enrollment in a subsequent course.

Ex.: *ANTHRO 334 American Indians of the Southwest* . . . *Prereq: ANTHRO 314 (R)*. ANTHRO 314 is recommended for students enrolling in ANTHRO 334.

**P-Prerequisite:** A course in which a student is required to earn credit prior to being allowed to enroll in a subsequent higher level course. A prerequisite course may not be taken for credit subsequent to the earning of credit in the higher level course.

Ex.: *PSYCH 205 Personality* . . . *Prereq: PSYCH 101 (P)*. Students must earn credit in PSYCH 101 before enrolling in PSYCH 205, and may not receive credit for PSYCH 101 after enrolling in PSYCH 205.

**NP-Nonrepeatable Prerequisite:** A prerequisite course for which the student is not permitted to substitute the grade earned when the course is repeated subsequent to earning credit in the higher level course.

Ex.: *COMPSCI 252 Computer Programming II . . . Prereq: COMPSCI 152 (NP)*. Students may not repeat COMPSCI 152 for the purpose of receiving a higher grade after enrolling in COMPSCI 252.

**C-Corequisite:** A course that may be taken as either a prerequisite or as a concurrent registration with the higher level course.

Ex.: *BUS ADM 210 Introduction to Management Statistics . . . Prereq: MATH 211 (C) or MATH 231 (C)*. Students must enroll in MATH 211 or 231 either prior to or at the same time as they enroll in BUS ADM 210.

**NC-Nonrepeatable Corequisite:** A corequisite course for which the student is not permitted to substitute the grade earned when the course is repeated subsequent to earning credit in the higher level course.

Ex.: *HLTHMNT 232 Nursing Practice for Health Promotion . . . Prereq: admission to enroll in clinical nursing major; HLTHMNT 210 (NC), 211 (NC); FNDNURS 230 (NC); HLTHRST 320 (NC)*. Students must enroll in the four listed (NC) courses either prior to or at the same time as they enroll in HLTHMNT 232. They may not repeat any of these four courses for the purpose of receiving a higher grade after enrolling in HLTHMNT 232.

**ER-Enrollment Restriction:** A course that is not open **for enrollment** to students who have earned credits in a specified course (or courses) with similar or overlapping content.

Ex.: *ECON 100-after cr is earned in ECON 103 or 104*.

A **course number followed by another number in parentheses** means that the course was previously offered under the number in parentheses. The two courses are the same course and the repeat policy applies.

Ex.: *HUM KIN 270 (370) - HUM KIN 270 is the same course as HUM KIN 370. A student with credit in HUM KIN 370 may enroll in 270 as a repeat unless 370 was taken more than once*.

# ARTS AND ARCHITECTURE (COLLEGE OF THE)

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## Architecture and Urban Planning (School of)

The School of Architecture and Urban Planning (SARUP) at UWM offers the only professional program in architecture in Wisconsin that is accredited by the National Architectural Accrediting Board; one of the two graduate planning programs in the state accredited by the Planning Accreditation Board (PAB) of the American Planning Association; and one of very few doctoral programs in architecture in the United States. SARUP offers a four-year Bachelor of Science in Architectural Studies (BSAS) undergraduate pre-professional degree that prepares students for professional, masters-level training in architecture and other design fields. As the urban center of the state with strong ethnic communities, Milwaukee makes an appropriate setting for the study of architecture and urban planning.

In addition to the degrees listed above, SARUP offers a Master of Architecture/Master of Urban Planning, a coordinated professional degree program designed for persons seeking integrated study in both areas. A non-professional Master of Science in Architecture is available for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. A PhD in Architecture is offered for persons who seek careers in research and teaching in architecture and allied fields, in consulting, or in roles in government and professional practice requiring advanced skills and research experience.

Most states require that an individual intending to become an architect hold an accredited degree. There are two types of degrees that are accredited by the National Architectural Accrediting Board:

1. the Bachelor of Architecture, which requires a minimum of five years of study, and
2. the Master of Architecture, which requires a minimum of three years of study following an unrelated bachelor's degree or two years following a related pre-professional bachelor's degree.

These professional degrees are structured to educate those who aspire to registration/licensure as architects.

The four-year, pre-professional degree, where offered, is not accredited by NAAB. The pre-professional degree is useful for those wishing a foundation in the field of architecture, as preparation for either continued education in a professional degree program or for employment options in architecturally related areas.

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## Requirements for Employment, Licensing, or Professional Organizations

Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

## Department of Architecture Computer Requirement

Effective Fall 2019, all students entering the Bachelor of Science in Architecture Studies (BSAS) program and the Master of Architecture (M.Arch) program are required to purchase a design-capable laptop computer and software. The laptop must be equipped to enable students to effectively perform all required coursework until the completion of the BSAS or M.Arch degree. For additional information, please see requirements posted on the Department of Architecture Laptop Requirement webpage (<https://uwm.edu/sarup/architecture/laptop-requirement/>).

## Administration

### Mo Zell

Interim Dean

### Kyle Reynolds

Head of School

### Karl Wallick

Associate Dean

### Tammy Taylor

Assistant Dean of Students  
Graduate Advisor

### Emily Zahasky

Undergraduate Academic Advisor

## Contact Information

**School of Architecture and Urban Planning**  
Architecture and Urban Planning Building, 225  
2131 E. Hartford Avenue  
Milwaukee, WI 53201

[uwm.edu/sarup](http://uwm.edu/sarup/) (<http://uwm.edu/sarup/>)

## Architecture

The Department of Architecture remains steadfastly committed to a tectonic conception of architectural practice. Students learn how to put a building together and how to derive formal poetics from constructive assembly. This strong commitment to conventional tectonics is complemented and challenged by many avenues of experimentation and research that confront professional norms. Elective courses propose alternative practices and theories for architecture by speculating on thermodynamic form, cultural geography, performative envelopes, digital prototyping, and new ecological and programmatic compositions for water management. Sponsored studios leverage expertise from the professional community in unique partnerships that benefit students and also have an impact on the community and region—in many cases through constructed works.

Maximum curriculum choice is considered a hallmark of the architecture curriculum at UWM. After completing the core educational requirements, students are able to construct an educational path from a wide array of elective seminars, independent study, research opportunities, and studios that best suit their personal values and aspirations. Our goal is for students to be committed to architecture as a form of disciplinary inquiry that is compositionally ambitious, technically provocative, and to continually reinvent professional ethics and beauty.

Students in the School of Architecture and Urban Planning (SARUP) are passionate about architecture, and have the benefit of attending an affordable, small, and strong school in a culturally vibrant city. Accomplished and dedicated faculty, staff, and alumni work tirelessly to provide personalized attention and guidance to the students they are mentoring.

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- Architectural Studies, Minor (p. 70)
- Architecture, BArch (p. 71)
- Architecture, MArch (p. 73)
- Architecture, MArch/Urban Planning, MUP (p. 76)
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## Limitations

The Department reserves the right to cap admissions into the minor on the basis of course availability. Students in the major have first priority registration for all courses in the Department. In cases of full capacity, students enrolled in the minor will be ranked and admitted into the program or into a course on the basis of overall GPA.

For more information about requirements for the minor, contact Tammy Taylor, Undergraduate Advisor, School of Architecture and Urban Planning, AUP 225, [ttaylor@uwm.edu](mailto:ttaylor@uwm.edu), (414) 229-4015.

## Accident and Health Insurance

Use of the School's woodworking shop requires that students provide evidence of personal accident and health insurance to the School of Architecture and Urban Planning Dean's Office.

## Department of Architecture Laptop Requirement

Beginning in Fall 2019, each incoming freshman in the Bachelor of Science in Architecture (BSAS) program and each incoming student in the Master of Architecture (MArch) program will be required to purchase a laptop computer that meets or exceeds the Department of Architecture's hardware and software specifications as published on the year the student enters the program. Beginning in Fall 2020, each incoming transfer student will be required to purchase a laptop computer. Students graduating from the BSAS program will be required to update or renew their laptop to conform to the School's specifications upon entry into the M.Arch program.

Laptop specifications can be found here. (<https://uwm.edu/sarup/architecture/laptop-requirement/>)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Sherry Ahrentzen	Professor	PhD			✓
Nikole Bouchard	Assistant Professor	MArch	Princeton University	✓	
Uriel Cohen	Professor	PhD			✓
Kevin Forseth	Associate Professor	MArch			✓
Robert Greenstreet	Professor	PhD	Oxford Brookes University		✓
Donald L. Hanlon	Professor	MArch			✓
Nancy Hubbard	Associate Professor	PhD			✓
Thomas C. Hubka	Professor	MArch			✓
Raymond Isaacs	Associate Professor	PhD			✓
Frederick Jules	Professor	MArch			✓
Mark Keane	Professor	MArch	University of Illinois	✓	
Linda R. Krause	Associate Professor	PhD			✓
Lindsey Krug	Assistant Professor	MArch	Harvard University	✓	
Maura Lucking	Assistant Professor	PhD	University of California, Los Angeles		

Whitney Moon	Assistant Professor	PhD	University of California, Los Angeles	✓	
Jeffrey Ollswang	Professor	MSc			✓
Harvey Rabinowitz	Professor	MArch			✓
Amos Rapoport	Distinguished Professor	MArch			✓
Kyle Reynolds	Associate Professor	MArch	Princeton University	✓	
Douglas Ryhn	Professor	MS			✓
Brian Schermer	Associate Professor	PhD	University of Michigan	✓	
Anthony Schnarsky	Associate Professor	MArch			✓
Samantha Schuermann	Assistant Professor	MArch	Rice University		
Arijit Sen	Associate Professor	PhD	University of California, Berkeley	✓	
James W. Shields	Associate Professor	MArch	University of Wisconsin-Milwaukee	✓	
Gil Snyder	Associate Professor	MArch			✓
Josef Stagg	Associate Professor	DArch			✓
Kyle Talbott	Associate Professor	MArch	Texas A&M University	✓	
Filip Tejchman	Associate Professor	MSAAD	Columbia University	✓	
Alexander Timmer	Assistant Professor	MArch	Harvard University	✓	
D. Michael Utzinger	Associate Professor	MSE			✓
Karl Wallick	Associate Professor, Associate Dean	MArch	University of Pennsylvania	✓	
James H. Wasley	Professor	MArch	Rice University	✓	
Gerald Weisman	Professor	PhD			✓
Larry Witzling	Professor	PhD			✓
Maureen Zell	Associate Professor, Interim Dean	MArch	Yale University	✓	

## Contact Information

### Department of Architecture

2131 E. Hartford Avenue  
Milwaukee, WI 53211

[uwm.edu/sarup/architecture/](http://uwm.edu/sarup/architecture/) (<http://uwm.edu/sarup/architecture/>)

## Architectural Studies, BS

The Bachelor of Science, Architectural Studies (BSAS) is a four-year undergraduate pre-professional program that prepares students for graduate studies in architecture and related design and construction fields. The primary goal of the BSAS program is to introduce students to architecture as both a technical and cultural practice. Students accrue skills in architectural thinking, design, visualization, fabrication, prototyping and simulation. The program lays a foundation of unique problem-solving skills empowering students to change the world.

The four-year BSAS program is comprised of a three-year core, followed by one year of specialized and individualized study. Over the course of their studies, BSAS students enroll in a variety of design studios, lectures and seminars to accrue skills in architectural making, thinking, design, visualization, digital fabrication, prototyping, and simulation. In addition to learning essential analytical and creative-problem solving skills through design, students are required to complete courses in architectural systems (structures, construction and environmental/building technology), behavioral, social and cultural factors in design, and the role of criticism in contemporary architecture and urbanism. In their fourth year, students select from a wide range of architectural electives and advanced studios, allowing them the opportunity to craft a curriculum based on their areas of interest.

Graduates of the BSAS program can continue their studies at the UW-Milwaukee School of Architecture and Urban Planning by applying to the Master of Architecture (M.Arch) (p. 73), Master of Science in Architecture (M.S.) (p. 85), or Master of Urban Planning (MUP) (p. 91) program.

## Admission Standards

### New Freshmen

New freshman admission to the School of Architecture and Urban Planning is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the ACT or SAT. For preferential consideration, applications (including ACT or SAT scores) must be completed no later than March 1 (for summer/fall term) or December 1 (for spring term). Applications not complete by the priority date or not meeting these admission criteria will be considered on a space-available basis.

See general freshman admission requirements (p. 17) of the University for additional information.

Academically qualified international student applicants must have a TOEFL score of at least 79 (iBT) or IELTS score of 6.0, or may be admitted following successful completion of the Intensive English Program at UWM, as demonstrated by an appropriate TOEFL score.

### Transfer Students

Transfer students are admitted on a selective basis. Preference is given to students whose applications are completed, including all required supporting documents, no later than April 1 (for the following summer/

fall term) or November 1 (for the following spring term) and who have completed (or will have completed by the anticipated enrollment date) at least 24 degree credits with a cumulative grade point average of at least 2.5 (on a 4.0 scale). In addition, transfer applicants must meet the same high school English and mathematics course requirements as new freshman applicants. International transfer student applicants also must meet the minimum TOEFL requirement.

Students enrolled in other UWM schools or colleges who wish to enter the architecture program will also be considered for admission on the basis of the criteria listed above. Interested students should schedule an appointment with Emily Zahasky, Undergraduate Advisor, (414) 229-4015.

## Second Degree Students

Second-degree candidates enrolled in architecture courses are classified as seniors in architecture. They are not subject to the University's General Education Requirements; however, they must complete (or have completed) the Mathematics and Physics Competency Requirements. Admission to the School as a second-degree candidate requires a cumulative grade point average of at least 2.75 (on a 4.0 scale) on the previous undergraduate record. Applications must be completed no later than March 1 (for the summer/fall term) or October 1 (for the spring term). For information on second-degree requirements, students should schedule an appointment with Emily Zahasky, Undergraduate Advisor, (414) 229-4015.

## Level 1 (Pre-Architecture)

Students applying to the University of Wisconsin-Milwaukee and declaring a primary interest in architectural studies on their application forms will be designated as Architectural Studies Level 1 (Pre-Architecture) students. They will be advised by the School's undergraduate advisor in the Student Advising Office. The policies and procedures of the School of Architecture and Urban Planning apply to admitted students, even though they may be enrolled in courses in another school or college at UWM.

Pre-Architecture students are not automatically accepted into the Level 2 program.

## Level 2 (Architectural Studies)

Entrance into Level 2 requires the following standards: completion of a minimum of 30 credits (sophomore standing); a cumulative GPA of at least 2.75 in both the overall college record and required Level 1 architecture courses (ARCH 111, ARCH 151, ARCH 112, ARCH 152, or their equivalent). Because enrollment is contingent upon available staffing and facilities, satisfaction of the minimum requirements does not guarantee admission to Level 2. The academic quality of the student's Level 1 studies are carefully reviewed by the School's BSAS Committee. Admission to the University does not guarantee acceptance by the Department of Architecture.

Enrollment priority is given to students with the highest cumulative GPAs for admission into ARCH 211, the first introductory core studio in Level 2.

**Transfer students** applying to Level 2 must demonstrate that they have taken the equivalent of the Level 1 program of study (ARCH 111, ARCH 151, ARCH 112, and ARCH 152).

**Advanced students** transferring from another architectural or related program (design, engineering, landscape architecture) may petition the BSAS Committee for advanced standing. Students must show that prior coursework parallels coursework in the Level 2 program. A minimum of

two semesters of work, consisting of at least 30 credits in total, must be completed in residency for the bachelor's degree.

## BSAS Requirements

The minimum credits needed to graduate from this program is 120. Completion of this degree does not guarantee admission to graduate programs in architecture at UWM.

For the BSAS degree, at least the last 30 credits must be earned in residency at UWM. The minimum cumulative GPA required for all UWM credits and for all architecture credits attempted is 2.5.

Code	Title	Credits
<i>Level 1 Architecture Courses (first year)</i> <sup>1</sup>		
ARCH 111	Design I	3
ARCH 151	History & Theory I	3
ARCH 112	Design II	3
ARCH 152	History & Theory II	3
<i>Competency Requirements</i>		
English:		3-6
Oral and Written Communication Competency - Part A: Complete ENGLISH 102 with a grade of C or higher or place beyond ENGLISH 102 on the English Placement Exam (EPT) or other appropriate test, as determined by the English Department		
Oral and Written Communication Competency - Part B: Complete at least one OWC - B course <sup>3</sup>		
Mathematics:		3-6
Quantitative Literacy Competency - Part A: Placement code of a 40 on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department		
Quantitative Literacy Competency - Part B: Complete at least one QL-B course <sup>3</sup>		
Physics:		
Select a college-level physics course from the following (or higher):		2-4
PHYSICS 100	Quantitative Preparation for Physics	
PHYSICS 107	Physics in Everyday Life	
PHYSICS 120	General Physics I (Non-Calculus Treatment)	
Foreign Language		0-8
Satisfied by one of the following:		
Complete two years of a single foreign language in high school		
Complete two semesters of a single foreign language in college		
Demonstrate ability by examination		
<i>Directed Electives</i> <sup>4,5</sup>		
Arts <sup>2</sup>		3
Humanities		6
Social Sciences <sup>6</sup>		6
Natural Sciences, to include a lab		6
<i>Level 2 Introductory Core Studios (second year)</i>		
ARCH 211	Design III	6
ARCH 212	Design IV	6
<i>Level 2 Core Studios (third year)</i>		
ARCH 311	Design V	6

ARCH 312	Design VI	6
<i>Level 2 Core Lectures</i>		
ARCH 271	Representation I	3
ARCH 272	Representation II	3
ARCH 321	Building Technology I	3
ARCH 352	History & Theory III	3
ARCH 322	Building Technology II	3
ARCH 353	History & Theory IV	3
<i>Level 2 Electives</i>		
Select 24 Arch elective credits at the 300 level or above <sup>7</sup>		24
Select 9 elective credits at the 300 level or above		9
Select additional elective credits from any area and any level as needed <sup>8</sup>		2
<b>Total Credits</b>		<b>120-134</b>

- <sup>1</sup> In addition, the Department occasionally offers a special topics course (ARCH 190) for experimental coursework.
- <sup>2</sup> ARCH 111 will count towards the student's GER Art's distribution requirements.
- <sup>3</sup> See Schedule of Classes (<http://www4.uwm.edu/schedule/>) for this listing.
- <sup>4</sup> One course must satisfy the GER Cultural Diversity Requirement. A list of courses is provided in the online Schedule of Classes each semester under "General Education Requirements". One course must satisfy the Service Learning Requirement. A list of courses is provided in the online Schedule of Classes each semester.
- <sup>5</sup> The Department requires courses outside the department to give students a foundation in the arts, humanities, social sciences, and natural sciences. These courses satisfy the distribution area of the UWM General Education Requirements (p. 30) (GER).
- <sup>6</sup> Students are required to take URBPLAN 140 OR URBPLAN 141 before graduation. Both courses count as GER Social Sciences distribution for the BSAS degree.
- <sup>7</sup> This coursework must be completed in the Department of Architecture. Twelve credits within this requirement must be ARCH 600.
- <sup>8</sup> Additional elective credits required depends on prior coursework. Consult your advisor.

## Plan of Study

The study of architecture at UWM consists of three levels that lead to the accredited professional degree of Master of Architecture. Students can enter the program at various levels depending on their background. Students with previous non-professional baccalaureate degrees should visit the Master of Architecture (M.Arch) (p. 73), Master of Science in Architecture (M.S.) (p. 85), or Master of Urban Planning (MUP) (p. 91) program pages for additional information.

All undergraduate students are required to meet the UWM General Education Requirements.

### Level 1 (Pre-Architecture)

Freshman year should be taken at UWM. If taken at another institution whose credits are accepted for transfer by UWM, the student is expected to achieve equivalent background and skills. Significant differences in courses will require that additional coursework be completed prior to Level 2 admission.

### Level 2 (Architectural Studies)

Sophomore, junior, and senior years, taken in the Department of Architecture. This period provides a general introduction to the problems and techniques of architectural design. Students who are accepted into Level 2 and complete the program receive the Bachelor of Science in Architectural Studies. This is not an accredited professional degree. It can provide, however, a foundation for employment as a non-professional in architecture or in fields related to architecture, construction, design, and planning, or for graduate study in architecture or in other disciplines concerned with the physical environment.

Year 1		
Semester 1		Credits
ARCH 111	Design I	3
ARCH 151	History & Theory I	3
ARCH 140	Introduction to Architectural Careers	1
ENGLISH 102	College Writing and Research	3
MATH 105	Introduction to College Algebra	3
GER Course		3
<b>Credits</b>		<b>16</b>
Semester 2		
ARCH 112	Design II	3
ARCH 152	History & Theory II	3
MATH 115	Precalculus	4
PHYSICS 107 or PHYSICS 120	Physics in Everyday Life or General Physics I (Non-Calculus Treatment)	3-4
GER Course		3
<b>Credits</b>		<b>16-17</b>
Year 2		
Semester 1		Credits
ARCH 271	Representation I	3
ARCH 211	Design III	6
GER Course		3
GER Course		3
<b>Credits</b>		<b>15</b>
Semester 2		
ARCH 272	Representation II	3
ARCH 212	Design IV	6
GER Course		3
GER Course		3
<b>Credits</b>		<b>15</b>
Year 3		
Semester 1		Credits
ARCH 321	Building Technology I	3
ARCH 353	History & Theory IV	3
ARCH 311	Design V	6
GER Course		3
<b>Credits</b>		<b>15</b>
Semester 2		
ARCH 352	History & Theory III	3
ARCH 322	Building Technology II	3
ARCH 312	Design VI	6
ARCH Elective		3
<b>Credits</b>		<b>15</b>
Year 4		
Semester 1		Credits
ARCH 600	Design Elective:	6
ARCH Elective <sup>2</sup>		3
ARCH Elective <sup>2</sup>		3
Elective at the 300 level or above		3
<b>Credits</b>		<b>15</b>

Semester 2	
ARCH Elective <sup>2</sup>	3
ARCH Elective <sup>2</sup>	3
ARCH Elective <sup>2</sup>	3
Elective at the 300 level or above	3
Elective at the 300 level or above	3
<b>Credits</b>	<b>15</b>
<b>Total Credits</b>	<b>122-123</b>

<sup>1</sup> Elective studios are a form of creative project-based research.

<sup>2</sup> Elective seminars and workshops are 3-credit classes investigating architectural issues through critical reading, thorough research, student discussions, and scholarly production.

## Honors and High Honors in the Major

Honors in the Major are granted to students who have earned a GPA of 3.500 or above for courses in the major and 3.250 GPA on the last 60 credits taken in residence at UWM (Level 2).

High Honors in the Major are granted to students who have earned a GPA of 3.750 or above for courses in the major and 3.500 GPA on the last 60 credits taken in residence at UWM (Level 2).

Dean's Honors are granted to graduating seniors with the two highest cum GPAs (Level 2).

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Opportunities

The Department of Architecture provides the following opportunities for students and faculty to develop coursework with a special focus.

The **Independent Studies** course (ARCH 392) rewards students with credits for worthwhile activities originated by the students, such as special reading or research programs, community service, or independent design projects. To be eligible, students in the Department of Architecture

must have completed one semester of work and must have a cumulative GPA of at least 3.0 in their work in the Department. Students in other UWM departments must have the permission of their own departments and the Department of Architecture.

The **Directed Research** course (ARCH 391) offers an opportunity for students to participate in current research projects of architecture faculty. Eligibility and approval for registration are at the discretion of the faculty members in charge of the projects.

The **Special Topics** course (ARCH 601) permits individual faculty members to develop special subjects on a one-semester basis. Special Topics courses are announced at registration for the following semester.

The Department has developed a semester-long Study Abroad Program that allows students to combine foreign travel and study under the tutelage of one or more departmental faculty member(s). The location of the program may vary from year to year. Admission to the program is selective, based on the student's previous academic performance.

## Architectural Studies, Minor

The Minor in Architectural Studies is designed for students not enrolled in the Architectural Studies major who are interested in a unique opportunity to stimulate their imagination and learn creative approaches to problem solving. This program will complement their current academic program with an in-depth understanding of architecture. The coursework exposes students to the fundamental principles that integrate design thinking with human behavior. Some students may wish to use the minor as a means of investigating possible graduate studies in architecture and some may wish to develop architectural specialties with other disciplines.

## Requirements

Students who choose the Minor in Architectural Studies must have a declared major in another school or college at UWM and must have a minimum of a 2.5 grade point average.

The minor consists of 18 credits in architecture courses. Nine credits numbered 300 or above must be taken in residence at UWM. All credits in the minor must be completed with an overall grade point average of at least 2.5, and no courses may be taken on a credit/no credit basis.

## Admission to the Minor

Admission to the minor will be processed by the School of Architecture and Urban Planning Student Advising Office (AUP 225). To declare the Architectural Studies minor, students should schedule an appointment with Tammy Taylor, Undergraduate Advisor, (414) 229-4015.

## Course of Study

Students who chose the minor in Architectural Studies must have a declared major in another school or college at a UW-System school and must have a minimum of a 2.5 grade point average. The minor consists of 18 credits in architecture courses. Nine credits numbered 300 or above must be taken at residence at UWM. All credits in the minor must be completed with an overall grade point average of at least a 2.5, and no courses may be taken on a credit no credit basis. Students must comply with the prerequisite requirements of courses to be taken under this program. Some of these requirements may be satisfied while in the program.

## Architectural Studies Minor: 18 credits

Code	Title	Credits
<b>Complete 9 credits from this listing:</b>		<b>9</b>
ARCH 101	Introduction to Architecture	
ARCH 111	Design I	
ARCH 112	Design II	
ARCH 152	History & Theory II	
ARCH 271	Representation I	
ARCH 272	Representation II	
<b>Remaining 9 credits from this listing at residence at UWM:</b>		<b>9</b>
ARCH 211	Design III	
ARCH 212	Design IV	
ARCH 352	History & Theory III	
ARCH 353	History & Theory IV	
ARCH 350	Greening Milwaukee	
ARCH 380	Drawing in Architecture	
ARCH 383	Landscape Architecture	
ARCH 601	Special Topics:	
<b>Total Credits</b>		<b>18</b>

## Architecture, BArch

The Bachelor of Architecture (BArch) is a five-year undergraduate professional program that prepares students for a professional architecture career and related design and construction fields.

The primary goal of the BArch program is to introduce students to architecture as both a technical and cultural practice. Students accrue skills in architectural thinking, design, construction, technology, professional practice, visualization, fabrication, prototyping and simulation. The program lays a foundation of unique problem-solving skills empowering students to change the world.

The five-year BArch program is comprised of a four-year core, followed by one year of specialized and individualized study. Over the course of their studies, BArch students enroll in a variety of design studios, lectures, and seminars to accrue skills in architectural making, thinking, design, construction, technology, professional practice, visualization, digital fabrication, prototyping, and simulation. In addition to learning essential analytical and creative problem solving skills through design, students are required to complete courses in architectural technology (structures, construction, and environmental/building technology), behavioral, social, and cultural factors in design, and the role of criticism in contemporary architecture and urbanism. In their fifth year, students select from a wide range of architectural electives and advanced studios, allowing them the opportunity to craft a curriculum based on their areas of interest.

Graduates of the BArch program can go on to complete AXP and ARE requirements to become licensed Architects or continue their studies at the UW-Milwaukee School of Architecture and Urban Planning by applying to the Master of Architecture (M.Arch) (p. 73), Master of Science in Architecture (M.S.) (p. 85), or Master of Urban Planning (MUP) (p. 91) program.

## Admission Standards

### New Freshmen

New freshman admission to the School of Architecture and Urban Planning is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are

the strength and quality of the high school curriculum, high school class percentile, and grade point average. For preferential consideration, applications must be completed no later than March 1 (for summer/fall term) or December 1 (for spring term). Applications not complete by the priority date or not meeting these admission criteria will be considered on a space-available basis.

See general freshman admission requirements (p. 17) of the University for additional information.

Academically qualified international student applicants must have a TOEFL score of at least 79 (iBT) or IELTS score of 6.0, or may be admitted following successful completion of the Intensive English Program at UWM, as demonstrated by an appropriate TOEFL score.

### Transfer Students

Transfer students are admitted on a selective basis. Preference is given to students whose applications are completed, including all required supporting documents, no later than April 1 (for the following summer/fall term) or November 1 (for the following spring term) and who have completed (or will have completed by the anticipated enrollment date) at least 24 degree credits with a cumulative grade point average of at least 2.5 (on a 4.0 scale). In addition, transfer applicants must meet the same high school English and mathematics course requirements as new freshman applicants. International transfer student applicants also must meet the minimum TOEFL requirement.

Students enrolled in other UWM schools or colleges who wish to enter the architecture program will also be considered for admission on the basis of the criteria listed above. Interested students should schedule an appointment with the SARUP Undergraduate Advisor, (414) 229-4015.

### Second Degree Students

Second-degree candidates enrolled in architecture courses are classified as seniors in architecture. They are not subject to the University's General Education Requirements; however, they must complete (or have completed) the Mathematics and Physics Competency Requirements. Admission to the School as a second-degree candidate requires a cumulative grade point average of at least 2.75 (on a 4.0 scale) on the previous undergraduate record. Applications must be completed no later than March 1 (for the summer/fall term) or October 1 (for the spring term). For information on second-degree requirements, students should schedule an appointment with the SARUP Undergraduate Advisor, (414) 229-4015.

## BArch Requirements

The minimum credits needed to graduate from this program is 150. Completion of this degree does not guarantee admission to graduate programs in architecture at UWM.

For the BArch degree, at least the last 30 credits must be earned in residency at UWM. The minimum cumulative GPA required for all UWM credits and for all architecture credits attempted is 2.5.

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Competency Requirements</i>		
English:		3-6

Oral and Written Communication Competency - Part A: Complete ENGLISH 102 with a grade of C or higher or place beyond ENGLISH 102 on the English Placement Exam (EPT) or other appropriate test, as determined by the English Department		
Oral and Written Communication Competency - Part B: Complete at least one OWC - B course <sup>1</sup>		
Mathematics:		3-6
Quantitative Literacy Competency - Part A: Complete MATH 105 with a grade of C or higher or place beyond MATH 105 on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department		
Quantitative Literacy Competency - Part B: Complete at least one QL-B course <sup>1</sup>		
MATH 115	Precalculus (or place beyond)	4
<i>Foreign Language</i>		0-8
Satisfied by one of the following:		
Complete two years of a single foreign language in high school		
Complete two semesters of a single foreign language in college		
Demonstrate ability by examination		
<i>Directed Electives</i> <sup>2,3</sup>		
Arts <sup>4</sup>		3
Humanities		6
Social Sciences <sup>5</sup>		6
Natural Science		3
PHYSICS 107	Physics in Everyday Life	3
PHYSICS 108	Laboratory for Physics in Everyday Life	1
<b>First Year Architecture Courses</b>		
ARCH 111	Design I <sup>4</sup>	3
ARCH 151	History & Theory I	3
ARCH 112	Design II	3
ARCH 140	Introduction to Architectural Careers	1
ARCH 271	Representation I	3
<b>Second Year Architecture Courses</b>		
ARCH 152	History & Theory II	3
ARCH 211	Design III	6
ARCH 272	Representation II	3
ARCH 212	Design IV	6
ARCH 352	History & Theory III	3
<b>Third Year Architecture Courses</b>		
ARCH 311	Design V	6
ARCH 312	Design VI	6
ARCH 321	Building Technology I	3
ARCH 322	Building Technology II	3
ARCH 341	Professional Practice I	3
ARCH 353	History & Theory IV	3
<b>Fourth Year Architecture Courses</b>		
Take two semesters for a total of six credits:		6
ARCH 800	Design Elective:	
ARCH 421	Building Technology III	3
ARCH 422	Building Technology IV	3
ARCH 342	Professional Practice II	3
<b>Fifth Year Architecture Courses</b>		

ARCH 812 or ARCH 800	Graduate Design III: Design Elective:	6
ARCH 800	Design Elective:	6
ARCH 423	Building Technology V	3
ARCH 343	Professional Practice III	3
<b>Electives</b>		
Select 9 Arch elective credits at the 300 level or above <sup>6</sup>		9
Select 9 elective credits at the 300 level or above		9
Select additional elective credits from any area and any level as needed (Flex) <sup>7</sup>		9
<b>Total Credits</b>		<b>150-164</b>

<sup>1</sup> See Schedule of Classes (<https://catalog.uwm.edu/course-search/>) for this listing.

<sup>2</sup> The Department requires courses outside the department to give students a foundation in the arts, humanities, social sciences, and natural sciences. These courses satisfy the distribution area of the UWM General Education Requirements (p. 30) (GER).

<sup>3</sup> One course must satisfy the GER Cultural Diversity Requirement. A list of courses is provided in the online Schedule of Classes (<https://catalog.uwm.edu/course-search/>) each semester under "General Education Requirements".

<sup>4</sup> ARCH 111 will count towards the student's GER Art's distribution requirements.

<sup>5</sup> Students are required to take URBPLAN 140 OR URBPLAN 141 before graduation. Both courses count as GER Social Sciences distribution for the B.Arch degree.

<sup>6</sup> This coursework must be completed in the Department of Architecture.

<sup>7</sup> Additional elective credits required depends on prior coursework. Consult your advisor.

## Plan of Study

Year 1		Credits
<b>Fall</b>		
ARCH 111	Design I	3
ARCH 151	History & Theory I	3
ARCH 140	Introduction to Architectural Careers	1
ENGLISH 102	College Writing and Research	3
MATH 105	Introduction to College Algebra	3
GER Social Science		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ARCH 112	Design II	3
ARCH 271	Representation I	3
GER Humanities		3
MATH 115	Precalculus	4
GER Social Science		3
<b>Credits</b>		<b>16</b>
<b>Year 2</b>		
<b>Fall</b>		
ARCH 211	Design III	6
ARCH 152	History & Theory II	3
ARCH 272	Representation II	3
PHYSICS 107	Physics in Everyday Life	3
PHYSICS 108	Laboratory for Physics in Everyday Life	1
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ARCH 212	Design IV	6
ARCH 352	History & Theory III	3



GER Natural Science		3
Flex Elective		3
<b>Credits</b>		<b>15</b>
<b>Year 3</b>		
<b>Fall</b>		
ARCH 311	Design V	6
ARCH 321	Building Technology I	3
ARCH 341	Professional Practice I	3
GER Humanities + Cultural Diversity		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ARCH 312	Design VI	6
ARCH 322	Building Technology II	3
ARCH 353	History & Theory IV	3
Flex Elective		3
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Fall</b>		
ARCH 800	Design Elective:	6
ARCH 421	Building Technology III	3
ARCH 660	Topics in Architectural History & Theory.	3
Flex Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ARCH 800	Design Elective:	6
ARCH 422	Building Technology IV	3
ARCH 342	Professional Practice II	3
Upper-level Elective		3
<b>Credits</b>		<b>15</b>
<b>Year 5</b>		
<b>Fall</b>		
ARCH 812 or ARCH 800	Graduate Design III: or Design Elective:	6
ARCH 423	Building Technology V	3
ARCH Elective		3
Upper-level Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ARCH 800	Design Elective:	6
ARCH 343	Professional Practice III	3
ARCH Elective		3
Upper-level Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>153</b>

## Honors and High Honors in the Major

Honors in the Major are granted to students who have earned a GPA of 3.500 or above for courses in the major and 3.250 GPA on the last 60 credits taken in residence at UWM.

High Honors in the Major are granted to students who have earned a GPA of 3.750 or above for courses in the major and 3.500 GPA on the last 60 credits taken in residence at UWM.

Dean's Honors are granted to graduating seniors with the two highest cum GPAs.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Architecture, MArch

The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires two to three years of graduate study, depending on the applicant's previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

The Master of Architecture curriculum emphasizes design studio courses. Each of these studios is taught by faculty members who also offer courses in selective subjects.

A study abroad program allows students to combine international travel and study under the tutelage of a departmental faculty member for program credit. The location of the program may vary from year to year. Additional costs of travel, lodging, etc., must be borne by the student.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. NAAB, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. Accreditation of architectural programs takes place on a cycle that may range from every few years to as many as eight years.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Wisconsin-Milwaukee, School of Architecture and Urban Planning, Department of Architecture, offers the following NAAB-accredited degree programs:

MArch (pre-professional degree + 60 graduate credits)

MArch (non-pre-professional degree + 90 credits)

#### STEM-DESIGNATED DEGREE PROGRAM

The Master of Architecture is an approved field of study within the U.S. government's official STEM fields list.

## Master of Science in Architecture (MS)

This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. Graduates will bring specialized knowledge to diverse professional settings that involve collaboration, interaction and communication with other professionals. Students propose their own course of study, to be reviewed and approved by faculty in accordance with the program requirements. Students may use the degree to explore their chosen field of research prior to continuation with PhD studies or, if they are mid-career professionals, may shape or extend their expertise in a particular field relevant to their area of practice.

## PhD Program

The PhD Program in Architecture is a community of scholars, practitioners, activists, and educators who are committed to advancing the discipline and practice of architecture. Situated within a professional school of architecture, the program is both curiosity-driven and action-oriented. The faculty and students at the School of Architecture and Urban Planning seek to advance architectural discourse and knowledge at multiple levels of inquiry. They embrace intellectual inclusiveness and critical examinations of society, culture, ecology and technology, while pursuing questions related to architectural history, theory, and criticism, human experience, social justice, and environmental advocacy.

## MArch/MUP Program

In cooperation with the Department of Urban Planning, the Department of Architecture offers a Master of Architecture/Master of Urban Planning program that prepares students for careers requiring preparation in both fields. Both the MArch and MUP degrees are awarded simultaneously upon completion of this program. For more detailed information on this program see Credits and Courses section below.

## Additional Notes

Individuals seeking to use the School's Shop must first provide evidence of personal accident and health insurance to the Dean's office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission to 1-Year Program

An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture equivalent to the Bachelor of Architecture (BArch) at UWM with 150 credits must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least eight undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

## Admission to 2-Year Program

An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture similar to the BS in Architectural Studies at UWM must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least five undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

## Admission to 3-Year Program

An applicant with an undergraduate degree in any field other than architecture is normally admitted with two semesters of foundation courses (30 credits) required, must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>), and the following Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
- Three letters of recommendation.
- Portfolio of written and/or visual work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

## Admission to MArch/MUP Program

Candidates seeking admission to the MArch/MUP program must apply to and be admitted to both programs. The requirements for admission to the Urban Planning Master's degree program are detailed in the Urban Planning section of this Catalog.

## Credits and Courses

### 1-Year Program

The minimum degree requirement is 30 graduate credits, all of which must be in architecture.

Code	Title	Credits
<i>Design</i> <sup>1</sup>		
ARCH 800	Design Elective:	6
ARCH 800	Design Elective:	6
<i>Professional Practice</i> <sup>2</sup>		
ARCH 718	Topics in Professional Practice	3
<i>History/Theory: Select one course from the following list:</i>		
ARCH 860	Topics in Architectural History & Theory:	3
ARCH 534G	Field Study:	
<i>Electives: Complete 12 cr of electives in Arch 500-level or above from the following list:</i> <sup>3,4</sup>		
ARCH 521G	Environmental Systems: Resources-Fluid Distribution Systems	12
ARCH 522G	Environmental Systems: Lighting and Acoustical Design	
ARCH 550G	Seminar in Building Types and Settings	
ARCH 560G	Introduction to Historic Preservation	
ARCH 561G	Measured Drawing for Architects	
ARCH 562G	Preservation Technology Laboratory	
ARCH 580G	Graphic Techniques for Architects	
ARCH 583G	Emerging Digital Technology:	
ARCH 584G	Urban Landscape Architecture	
ARCH 716	Art of Detailing	
ARCH 723	Fundamentals of Ecological Architecture	
ARCH 741	Professional Practice I	
ARCH 743	Professional Practice III	
ARCH 749	Urban Design as Public Policy	
ARCH 760	History of Building Technology	
ARCH 780	The Built Environment and Real Estate Development	
ARCH 788	Green Building Seminar	
ARCH 791	Master's Level Directed Research	
ARCH 801	Special Topics:	
ARCH 821	Building Technology III	
ARCH 822	Building Technology IV	
ARCH 823	Building Technology V	
ARCH 985	Advanced Research Methods in Architecture	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> A minimum grade of "B" (3.00) is required in each design studio.

<sup>2</sup> If there are too few MArch I students to offer this course, students can take an additional 500-level or above Architecture elective course instead.

<sup>3</sup> Students may not retake for credit any course already completed in the UWM Bachelor of Architecture Program.

<sup>4</sup> When choosing electives students must remember that at least half of the credits need to be numbered 700 and above.

### 2-Year Program

The minimum degree requirement is 60 graduate credits, 48 of which must be in architecture.

Code	Title	Credits
<i>Design</i> <sup>1</sup>		
ARCH 812	Graduate Design III:	6
ARCH 800	Design Elective:	6
ARCH 800	Design Elective:	6
<i>Practice</i>		
ARCH 743	Professional Practice III	3
Select one additional course <sup>2</sup>		
<i>Technology</i>		
ARCH 821	Building Technology III	3
ARCH 822	Building Technology IV	3
ARCH 823	Building Technology V	3
<i>Theory</i>		
ARCH 860	Topics in Architectural History & Theory:	3
Select one additional course <sup>2</sup>		
<i>Graduate Electives (M.Arch 3 students must take at least 6 credits in architecture)</i>		
<i>Capstone Requirement</i>		
A 500-level or higher architecture elective		3
ARCH 800	Design Elective:	6
or ARCH 812	Graduate Design III:	
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> A minimum grade of "B" (3.00) is required in each design studio.

<sup>2</sup> For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu. Students who have completed any of the required courses or their equivalents as undergraduates may substitute architectural electives.

### 3-Year Program

Consult the Student Advising Office for sequencing of courses, (414) 229-4015.

An applicant with an undergraduate degree in a field other than architecture is normally admitted with 30 credits of foundation courses required.

The first-year requirements totaling 30 credits are as follows:

Code	Title	Credits
<i>Foundation Courses</i>		
ARCH 321	Building Technology I	3
ARCH 322	Building Technology II	3

ARCH 351	Survey of Architectural History & Theory	3
ARCH 352	History & Theory III	3
ARCH 711	Graduate Design I	6
ARCH 712	Graduate Design II	6
ARCH 771	Representation I	3
ARCH 772	Representation II	3
<b>Total Credits</b>		<b>30</b>

Some of these requirements may be waived by the M.Arch Committee upon an applicant's acceptance to the program or upon appeal, based on equivalent work. The requirements in the remaining two years include 60 graduate credits, 54 of which must be in architecture.

## Additional Requirements

### Major Professor as Advisor

The student must have a professor to advise and supervise the student's studies as specified in Graduate School regulations.

## Architecture, MArch/Urban Planning, MUP

Joint program candidates must complete all of the requirements of the MArch (p. 73) degree and the requirements stipulated by the Department of Urban Planning. The Urban Planning Master's program (<https://catalog.uwm.edu/arts-architecture//architecture-urban-planning/urban-planning/urban-planning-mup/>) is detailed in the Urban Planning section of this Catalog.

## Requirements

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Credits and Courses

Students in the M.Arch/MUP program are required to complete a total of 84 credits: 36 credits in urban planning, 42 credits in architecture, and 6 credits of graduate electives from any area.

Code	Title	Credits
<b>Urban Planning Requirements</b>		
URBPLAN 701	Introduction to Land Use Planning	1
URBPLAN 702	Introduction to Planning Law	2
URBPLAN 711	Planning Theories and Practice	3
URBPLAN 720	Urban Development Theory and Planning	3
URBPLAN 721	Applied Planning Methods	3
URBPLAN 740	Data Analysis Methods I	3
URBPLAN 810	Planning Policy Analysis	6
URBPLAN 811	Applied Planning Workshop	3
URBPLAN 751	Introduction to Urban Design and Physical Planning	3

URBPLAN 857	Urban Design as Public Policy	3
URBPLAN 858	Studio in Urban Design and Physical Planning	6

### Architecture Requirements<sup>1</sup>

#### Design<sup>2</sup>

ARCH 812	Graduate Design III:	6
ARCH 800	Design Elective:	6
URBPLAN 858	Studio in Urban Design and Physical Planning <sup>3</sup>	

#### Practice

ARCH 743	Professional Practice III	3
URBPLAN 857	Urban Design as Public Policy <sup>3</sup>	

#### Technology

ARCH 821	Building Technology III	3
ARCH 822	Building Technology IV	3
ARCH 823	Building Technology V	3

#### Theory

ARCH 860	Topics in Architectural History & Theory:	3
URBPLAN 751	Introduction to Urban Design and Physical Planning <sup>3</sup>	

#### Graduate Electives 12

At least 6 credits taken in architecture

#### Capstone Requirement

A 500-level or higher architecture elective	3	
ARCH 800	Design Elective:	6
or ARCH 812	Graduate Design III:	

#### Total Credits 84

<sup>1</sup> Students who have completed any of the required architecture courses or their equivalents as undergraduates may substitute architecture electives.

<sup>2</sup> A minimum grade of "B" (3.00) is required in each design studio.

<sup>3</sup> Course satisfies Architecture Requirements; credits counted in Urban Planning Requirements.

### M.Arch/MUP Program Candidates

Coordinated degree program candidates must complete all of the requirements of the M.Arch degree and the requirements stipulated by the Department of Urban Planning. The Urban Planning Master's program is detailed in the Urban Planning section of this Catalog.

## Additional Requirements

### Capstone Requirement

The student in the M.Arch/MUP program must complete the Architecture Capstone Requirement, and must also take and pass the comprehensive exam in Urban Planning.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Architecture, MArch: Ecological Design

The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires two to three years of graduate study, depending on the applicant's previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

The Master of Architecture curriculum emphasizes design studio courses. Each of these studios is taught by faculty members who also offer courses in selective subjects.

A study abroad program allows students to combine international travel and study under the tutelage of a departmental faculty member for program credit. The location of the program may vary from year to year. Additional costs of travel, lodging, etc., must be borne by the student.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. NAAB, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. Accreditation of architectural programs takes place on a cycle that may range from every few years to as many as eight years.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Wisconsin-Milwaukee, School of Architecture and Urban Planning, Department of Architecture, offers the following NAAB-accredited degree programs:

MArch (pre-professional degree + 60 graduate credits)  
MArch (non-pre-professional degree + 90 credits)

### STEM-DESIGNATED DEGREE PROGRAM

The Master of Architecture is an approved field of study within the U.S. government's official STEM fields list.

## Master of Science in Architecture (MS)

This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. Graduates will bring specialized knowledge to diverse professional settings that involve collaboration, interaction and communication with other professionals. Students propose their own course of study, to be reviewed and approved by faculty in accordance with the program requirements. Students may use the degree to explore their chosen field of research prior to continuation with PhD studies or, if they are mid-career professionals, may shape or extend their expertise in a particular field relevant to their area of practice.

## PhD Program

The PhD Program in Architecture is a community of scholars, practitioners, activists, and educators who are committed to advancing the discipline and practice of architecture. Situated within a professional school of architecture, the program is both curiosity-driven and action-oriented. The faculty and students at the School of Architecture and Urban Planning seek to advance architectural discourse and knowledge at multiple levels of inquiry. They embrace intellectual inclusiveness and critical examinations of society, culture, ecology and technology, while pursuing questions related to architectural history, theory, and criticism, human experience, social justice, and environmental advocacy.

## MArch/MUP Program

In cooperation with the Department of Urban Planning, the Department of Architecture offers a Master of Architecture/Master of Urban Planning program that prepares students for careers requiring preparation in both fields. Both the MArch and MUP degrees are awarded simultaneously upon completion of this program. For more detailed information on this program see Credits and Courses section below.

## Additional Notes

Individuals seeking to use the School's Shop must first provide evidence of personal accident and health insurance to the Dean's office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission to 1-Year Program

An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture equivalent to the Bachelor of Architecture (BArch) at UWM with 150 credits must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least eight undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

### Admission to 2-Year Program

An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture similar to the BS in Architectural Studies at UWM must meet Graduate School requirements

(<http://uwm.edu/graduateschool/admission/>) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least five undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

### Admission to 3-Year Program

An applicant with an undergraduate degree in any field other than architecture is normally admitted with two semesters of foundation courses (30 credits) required, must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>), and the following Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
- Three letters of recommendation.
- Portfolio of written and/or visual work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

### Admission to MArch/MUP Program

Candidates seeking admission to the MArch/MUP program must apply to and be admitted to both programs. The requirements for admission to the Urban Planning Master's degree program are detailed in the Urban Planning section of this Catalog.

## Credits and Courses

### 1-Year Program

The minimum degree requirement is 30 graduate credits, all of which must be in architecture.

Code	Title	Credits
<i>Design</i> <sup>1</sup>		
ARCH 800	Design Elective:	6
ARCH 800	Design Elective:	6
<i>Professional Practice</i> <sup>2</sup>		
ARCH 718	Topics in Professional Practice	3
<i>History/Theory: Select one course from the following list:</i>		
ARCH 860	Topics in Architectural History & Theory:	3
ARCH 534G	Field Study:	3
<i>Electives: Complete 12 cr of electives in Arch 500-level or above from the following list:</i> <sup>3,4</sup>		12

ARCH 521G	Environmental Systems: Resources-Fluid Distribution Systems
ARCH 522G	Environmental Systems: Lighting and Acoustical Design
ARCH 550G	Seminar in Building Types and Settings
ARCH 560G	Introduction to Historic Preservation
ARCH 561G	Measured Drawing for Architects
ARCH 562G	Preservation Technology Laboratory
ARCH 580G	Graphic Techniques for Architects
ARCH 583G	Emerging Digital Technology:
ARCH 584G	Urban Landscape Architecture
ARCH 716	Art of Detailing
ARCH 723	Fundamentals of Ecological Architecture
ARCH 741	Professional Practice I
ARCH 743	Professional Practice III
ARCH 749	Urban Design as Public Policy
ARCH 760	History of Building Technology
ARCH 780	The Built Environment and Real Estate Development
ARCH 788	Green Building Seminar
ARCH 791	Master's Level Directed Research
ARCH 801	Special Topics:
ARCH 821	Building Technology III
ARCH 822	Building Technology IV
ARCH 823	Building Technology V
ARCH 985	Advanced Research Methods in Architecture

**Total Credits** **30**

- <sup>1</sup> A minimum grade of "B" (3.00) is required in each design studio.
- <sup>2</sup> If there are too few MArch I students to offer this course, students can take an additional 500-level or above Architecture elective course instead.
- <sup>3</sup> Students may not retake for credit any course already completed in the UWM Bachelor of Architecture Program.
- <sup>4</sup> When choosing electives students must remember that at least half of the credits need to be numbered 700 and above.

### 2-Year Program

The minimum degree requirement is 60 graduate credits, 48 of which must be in architecture.

Code	Title	Credits
<i>Design</i> <sup>1</sup>		
ARCH 812	Graduate Design III:	6
ARCH 800	Design Elective:	6
ARCH 800	Design Elective:	6
<i>Practice</i>		
ARCH 743	Professional Practice III	3
Select one additional course <sup>2</sup>		3
<i>Technology</i>		
ARCH 821	Building Technology III	3
ARCH 822	Building Technology IV	3
ARCH 823	Building Technology V	3

<i>Theory</i>		
ARCH 860	Topics in Architectural History & Theory:	3
Select one additional course <sup>2</sup>		3
<i>Graduate Electives (M.Arch 3 students must take at least 6 credits in architecture)</i>		12
<b>Capstone Requirement</b>		
A 500-level or higher architecture elective		3
ARCH 800	Design Elective:	6
or ARCH 812	Graduate Design III:	
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> A minimum grade of "B" (3.00) is required in each design studio.  
<sup>2</sup> For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu. Students who have completed any of the required courses or their equivalents as undergraduates may substitute architectural electives.

### 3-Year Program

Consult the Student Advising Office for sequencing of courses, (414) 229-4015.

An applicant with an undergraduate degree in a field other than architecture is normally admitted with 30 credits of foundation courses required.

The first-year requirements totaling 30 credits are as follows:

Code	Title	Credits
<i>Foundation Courses</i>		
ARCH 321	Building Technology I	3
ARCH 322	Building Technology II	3
ARCH 351	Survey of Architectural History & Theory	3
ARCH 352	History & Theory III	3
ARCH 711	Graduate Design I	6
ARCH 712	Graduate Design II	6
ARCH 771	Representation I	3
ARCH 772	Representation II	3
<b>Total Credits</b>		<b>30</b>

Some of these requirements may be waived by the M.Arch Committee upon an applicant's acceptance to the program or upon appeal, based on equivalent work. The requirements in the remaining two years include 60 graduate credits, 54 of which must be in architecture.

### Transcript-Designated Concentration in Ecological Design

Students wishing to pursue this concentration must be enrolled in the Master of Architecture program and complete a minimum of 21 credits from the following groups of courses:

Code	Title	Credits
<b>Ecological Design Required Core</b>		
ARCH 723	Fundamentals of Ecological Architecture	3
<b>Ecological Design Electives<sup>1</sup></b>		<b>9</b>

At least 3 credits taken outside architecture		
<b>Capstone Requirement<sup>2</sup></b>		
500-level or higher architecture elective <sup>1</sup>		3
Select one of the following:		6
ARCH 800	Design Elective:	
ARCH 812	Graduate Design III:	
ARCH 891	Master's Project	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu.  
<sup>2</sup> Ecological design focus.

## Additional Requirements

### Major Professor as Advisor

The student must have a professor to advise and supervise the student's studies as specified in Graduate School regulations.

## Architecture, MArch: Preservation Studies

The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires two to three years of graduate study, depending on the applicant's previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

The Master of Architecture curriculum emphasizes design studio courses. Each of these studios is taught by faculty members who also offer courses in selective subjects.

A study abroad program allows students to combine international travel and study under the tutelage of a departmental faculty member for program credit. The location of the program may vary from year to year. Additional costs of travel, lodging, etc., must be borne by the student.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. NAAB, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. Accreditation of architectural programs takes place on a cycle that may range from every few years to as many as eight years.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Wisconsin-Milwaukee, School of Architecture and Urban Planning, Department of Architecture, offers the following NAAB-accredited degree programs:

MArch (pre-professional degree + 60 graduate credits)

MArch (non-pre-professional degree + 90 credits)

#### STEM-DESIGNATED DEGREE PROGRAM

The Master of Architecture is an approved field of study within the U.S. government's official STEM fields list.

## Master of Science in Architecture (MS)

This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. Graduates will bring specialized knowledge to diverse professional settings that involve collaboration, interaction and communication with other professionals. Students propose their own course of study, to be reviewed and approved by faculty in accordance with the program requirements. Students may use the degree to explore their chosen field of research prior to continuation with PhD studies or, if they are mid-career professionals, may shape or extend their expertise in a particular field relevant to their area of practice.

## PhD Program

The PhD Program in Architecture is a community of scholars, practitioners, activists, and educators who are committed to advancing the discipline and practice of architecture. Situated within a professional school of architecture, the program is both curiosity-driven and action-oriented. The faculty and students at the School of Architecture and Urban Planning seek to advance architectural discourse and knowledge at multiple levels of inquiry. They embrace intellectual inclusiveness and critical examinations of society, culture, ecology and technology, while pursuing questions related to architectural history, theory, and criticism, human experience, social justice, and environmental advocacy.

## MArch/MUP Program

In cooperation with the Department of Urban Planning, the Department of Architecture offers a Master of Architecture/Master of Urban Planning program that prepares students for careers requiring preparation in both fields. Both the MArch and MUP degrees are awarded simultaneously upon completion of this program. For more detailed information on this program see Credits and Courses section below.

## Additional Notes

Individuals seeking to use the School's Shop must first provide evidence of personal accident and health insurance to the Dean's office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission to 1-Year Program

An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture equivalent to the Bachelor of Architecture (BArch) at UWM with 150 credits must meet Graduate School requirements (<http://uwm.edu/graduateschool/>)

admission/) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least eight undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

### Admission to 2-Year Program

An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture similar to the BS in Architectural Studies at UWM must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least five undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

### Admission to 3-Year Program

An applicant with an undergraduate degree in any field other than architecture is normally admitted with two semesters of foundation courses (30 credits) required, must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>), and the following Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
- Three letters of recommendation.
- Portfolio of written and/or visual work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

### Admission to MArch/MUP Program

Candidates seeking admission to the MArch/MUP program must apply to and be admitted to both programs. The requirements for admission to the Urban Planning Master's degree program are detailed in the Urban Planning section of this Catalog.



## Credits and Courses

### 1-Year Program

The minimum degree requirement is 30 graduate credits, all of which must be in architecture.

Code	Title	Credits
<i>Design</i> <sup>1</sup>		
ARCH 800	Design Elective:	6
ARCH 800	Design Elective:	6
<i>Professional Practice</i> <sup>2</sup>		
ARCH 718	Topics in Professional Practice	3
<i>History/Theory: Select one course from the following list:</i>		
ARCH 860	Topics in Architectural History & Theory:	3
ARCH 534G	Field Study:	3
<i>Electives: Complete 12 cr of electives in Arch 500-level or above from the following list:</i> <sup>3,4</sup>		
ARCH 521G	Environmental Systems: Resources-Fluid Distribution Systems	3
ARCH 522G	Environmental Systems: Lighting and Acoustical Design	3
ARCH 550G	Seminar in Building Types and Settings	3
ARCH 560G	Introduction to Historic Preservation	3
ARCH 561G	Measured Drawing for Architects	3
ARCH 562G	Preservation Technology Laboratory	3
ARCH 580G	Graphic Techniques for Architects	3
ARCH 583G	Emerging Digital Technology:	3
ARCH 584G	Urban Landscape Architecture	3
ARCH 716	Art of Detailing	3
ARCH 723	Fundamentals of Ecological Architecture	3
ARCH 741	Professional Practice I	3
ARCH 743	Professional Practice III	3
ARCH 749	Urban Design as Public Policy	3
ARCH 760	History of Building Technology	3
ARCH 780	The Built Environment and Real Estate Development	3
ARCH 788	Green Building Seminar	3
ARCH 791	Master's Level Directed Research	3
ARCH 801	Special Topics:	3
ARCH 821	Building Technology III	3
ARCH 822	Building Technology IV	3
ARCH 823	Building Technology V	3
ARCH 985	Advanced Research Methods in Architecture	3
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> A minimum grade of "B" (3.00) is required in each design studio.

<sup>2</sup> If there are too few MArch I students to offer this course, students can take an additional 500-level or above Architecture elective course instead.

<sup>3</sup> Students may not retake for credit any course already completed in the UWM Bachelor of Architecture Program.

<sup>4</sup> When choosing electives students must remember that at least half of the credits need to be numbered 700 and above.

### 2-Year Program

The minimum degree requirement is 60 graduate credits, 48 of which must be in architecture.

Code	Title	Credits
<i>Design</i> <sup>1</sup>		
ARCH 812	Graduate Design III:	6
ARCH 800	Design Elective:	6
ARCH 800	Design Elective:	6
<i>Practice</i>		
ARCH 743	Professional Practice III	3
Select one additional course <sup>2</sup>		
<i>Technology</i>		
ARCH 821	Building Technology III	3
ARCH 822	Building Technology IV	3
ARCH 823	Building Technology V	3
<i>Theory</i>		
ARCH 860	Topics in Architectural History & Theory:	3
Select one additional course <sup>2</sup>		
<i>Graduate Electives (M.Arch 3 students must take at least 6 credits in architecture)</i>		
<i>Capstone Requirement</i>		
A 500-level or higher architecture elective		
ARCH 800	Design Elective:	6
or ARCH 812	Graduate Design III:	6
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> A minimum grade of "B" (3.00) is required in each design studio.

<sup>2</sup> For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu. Students who have completed any of the required courses or their equivalents as undergraduates may substitute architectural electives.

### 3-Year Program

Consult the Student Advising Office for sequencing of courses, (414) 229-4015.

An applicant with an undergraduate degree in a field other than architecture is normally admitted with 30 credits of foundation courses required.

The first-year requirements totaling 30 credits are as follows:

Code	Title	Credits
<i>Foundation Courses</i>		
ARCH 321	Building Technology I	3
ARCH 322	Building Technology II	3
ARCH 351	Survey of Architectural History & Theory	3
ARCH 352	History & Theory III	3
ARCH 711	Graduate Design I	6
ARCH 712	Graduate Design II	6

ARCH 771	Representation I	3
ARCH 772	Representation II	3
<b>Total Credits</b>		<b>30</b>

Some of these requirements may be waived by the M.Arch Committee upon an applicant's acceptance to the program or upon appeal, based on equivalent work. The requirements in the remaining two years include 60 graduate credits, 54 of which must be in architecture.

## Transcript-Designated Concentration in Preservation Studies

Students wishing to pursue this concentration must be enrolled in the Master of Architecture program and complete a minimum of 21 credits from the following groups of courses:

Code	Title	Credits
<b>Preservation Required Core</b>		
ARCH 560	Introduction to Historic Preservation	3
ARCH 760	History of Building Technology	3
ARCH 800	Design Elective: <sup>1</sup>	6
<b>Capstone Requirement <sup>1</sup></b>		
	500-level or higher architecture elective <sup>2</sup>	3
	Select one of the following:	6
ARCH 800	Design Elective:	
ARCH 812	Graduate Design III:	
ARCH 891	Master's Project	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> Preservation focus.

<sup>2</sup> For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu.

## Additional Requirements

### Major Professor as Advisor

The student must have a professor to advise and supervise the student's studies as specified in Graduate School regulations.

## Architecture, MArch: Real Estate Development

The Master of Architecture, the first professional degree offered by the Department of Architecture, is accredited by the National Architectural Accrediting Board (NAAB). The degree program requires two to three years of graduate study, depending on the applicant's previous academic background and qualifications. It offers a wide range of courses, with particular strengths in the areas of architectural design and integrated practice, ecological/sustainable design, digital design and fabrication, preservation, urban design, and design as a response to the physical, cultural, and social environment.

The Master of Architecture curriculum emphasizes design studio courses. Each of these studios is taught by faculty members who also offer courses in selective subjects.

A study abroad program allows students to combine international travel and study under the tutelage of a departmental faculty member for

program credit. The location of the program may vary from year to year. Additional costs of travel, lodging, etc., must be borne by the student.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. NAAB, which is the sole agency authorized to accredit U.S. professional degree programs in architecture, recognizes three types of degrees: the Bachelor of Architecture, the Master of Architecture, and the Doctor of Architecture. Accreditation of architectural programs takes place on a cycle that may range from every few years to as many as eight years.

Doctor of Architecture and Master of Architecture degree programs may consist of a pre-professional undergraduate degree and a professional graduate degree that, when earned sequentially, constitute an accredited professional education. However, the pre-professional degree is not, by itself, recognized as an accredited degree.

The University of Wisconsin-Milwaukee, School of Architecture and Urban Planning, Department of Architecture, offers the following NAAB-accredited degree programs:

MArch (pre-professional degree + 60 graduate credits)  
MArch (non-pre-professional degree + 90 credits)

### STEM-DESIGNATED DEGREE PROGRAM

The Master of Architecture is an approved field of study within the U.S. government's official STEM fields list.

## Master of Science in Architecture (MS)

This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. Graduates will bring specialized knowledge to diverse professional settings that involve collaboration, interaction and communication with other professionals. Students propose their own course of study, to be reviewed and approved by faculty in accordance with the program requirements. Students may use the degree to explore their chosen field of research prior to continuation with PhD studies or, if they are mid-career professionals, may shape or extend their expertise in a particular field relevant to their area of practice.

## PhD Program

The PhD Program in Architecture is a community of scholars, practitioners, activists, and educators who are committed to advancing the discipline and practice of architecture. Situated within a professional school of architecture, the program is both curiosity-driven and action-oriented. The faculty and students at the School of Architecture and Urban Planning seek to advance architectural discourse and knowledge at multiple levels of inquiry. They embrace intellectual inclusiveness and critical examinations of society, culture, ecology and technology, while pursuing questions related to architectural history, theory, and criticism, human experience, social justice, and environmental advocacy.

## MArch/MUP Program

In cooperation with the Department of Urban Planning, the Department of Architecture offers a Master of Architecture/Master of Urban Planning program that prepares students for careers requiring preparation in both fields. Both the MArch and MUP degrees are awarded simultaneously upon completion of this program. For more detailed information on this program see Credits and Courses section below.

## Additional Notes

Individuals seeking to use the School's Shop must first provide evidence of personal accident and health insurance to the Dean's office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission to 1-Year Program

An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture equivalent to the Bachelor of Architecture (BArch) at UWM with 150 credits must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least eight undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

### Admission to 2-Year Program

An applicant with an undergraduate major in architecture from UWM or a school with an accredited program in architecture similar to the BS in Architectural Studies at UWM must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average in architectural studies of at least 3.0 (4.0 scale).
- Completion of at least five undergraduate design studios.
- Three letters of recommendation from three previous faculty and/or members of the profession.
- Portfolio of architectural studies work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

### Admission to 3-Year Program

An applicant with an undergraduate degree in any field other than architecture is normally admitted with two semesters of foundation courses (30 credits) required, must meet Graduate School requirements

(<http://uwm.edu/graduateschool/admission/>), and the following Department of Architecture requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
- Three letters of recommendation.
- Portfolio of written and/or visual work.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

### Admission to MArch/MUP Program

Candidates seeking admission to the MArch/MUP program must apply to and be admitted to both programs. The requirements for admission to the Urban Planning Master's degree program are detailed in the Urban Planning section of this Catalog.

## Credits and Courses

### 1-Year Program

The minimum degree requirement is 30 graduate credits, all of which must be in architecture.

Code	Title	Credits
<i>Design</i> <sup>1</sup>		
ARCH 800	Design Elective:	6
ARCH 800	Design Elective:	6
<i>Professional Practice</i> <sup>2</sup>		
ARCH 718	Topics in Professional Practice	3
<i>History/Theory: Select one course from the following list:</i>		
ARCH 860	Topics in Architectural History & Theory:	3
ARCH 534G	Field Study:	
<i>Electives: Complete 12 cr of electives in Arch 500-level or above from the following list:</i> <sup>3,4</sup>		12
ARCH 521G	Environmental Systems: Resources-Fluid Distribution Systems	
ARCH 522G	Environmental Systems: Lighting and Acoustical Design	
ARCH 550G	Seminar in Building Types and Settings	
ARCH 560G	Introduction to Historic Preservation	
ARCH 561G	Measured Drawing for Architects	
ARCH 562G	Preservation Technology Laboratory	
ARCH 580G	Graphic Techniques for Architects	
ARCH 583G	Emerging Digital Technology:	
ARCH 584G	Urban Landscape Architecture	
ARCH 716	Art of Detailing	
ARCH 723	Fundamentals of Ecological Architecture	
ARCH 741	Professional Practice I	
ARCH 743	Professional Practice III	
ARCH 749	Urban Design as Public Policy	
ARCH 760	History of Building Technology	

ARCH 780	The Built Environment and Real Estate Development	
ARCH 788	Green Building Seminar	
ARCH 791	Master's Level Directed Research	
ARCH 801	Special Topics:	
ARCH 821	Building Technology III	
ARCH 822	Building Technology IV	
ARCH 823	Building Technology V	
ARCH 985	Advanced Research Methods in Architecture	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> A minimum grade of "B" (3.00) is required in each design studio.

<sup>2</sup> If there are too few MArch I students to offer this course, students can take an additional 500-level or above Architecture elective course instead.

<sup>3</sup> Students may not retake for credit any course already completed in the UWM Bachelor of Architecture Program.

<sup>4</sup> When choosing electives students must remember that at least half of the credits need to be numbered 700 and above.

## 2-Year Program

The minimum degree requirement is 60 graduate credits, 48 of which must be in architecture.

Code	Title	Credits
<i>Design</i> <sup>1</sup>		
ARCH 812	Graduate Design III:	6
ARCH 800	Design Elective:	6
ARCH 800	Design Elective:	6
<i>Practice</i>		
ARCH 743	Professional Practice III	3
Select one additional course <sup>2</sup>		3
<i>Technology</i>		
ARCH 821	Building Technology III	3
ARCH 822	Building Technology IV	3
ARCH 823	Building Technology V	3
<i>Theory</i>		
ARCH 860	Topics in Architectural History & Theory:	3
Select one additional course <sup>2</sup>		3
<i>Graduate Electives (M.Arch 3 students must take at least 6 credits in architecture)</i>		
<i>Capstone Requirement</i>		
A 500-level or higher architecture elective		3
ARCH 800	Design Elective:	6
or ARCH 812	Graduate Design III:	
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> A minimum grade of "B" (3.00) is required in each design studio.

<sup>2</sup> For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu. Students who have completed any of the required courses or their equivalents as undergraduates may substitute architectural electives.

## 3-Year Program

Consult the Student Advising Office for sequencing of courses, (414) 229-4015.

An applicant with an undergraduate degree in a field other than architecture is normally admitted with 30 credits of foundation courses required.

The first-year requirements totaling 30 credits are as follows:

Code	Title	Credits
<i>Foundation Courses</i>		
ARCH 321	Building Technology I	3
ARCH 322	Building Technology II	3
ARCH 351	Survey of Architectural History & Theory	3
ARCH 352	History & Theory III	3
ARCH 711	Graduate Design I	6
ARCH 712	Graduate Design II	6
ARCH 771	Representation I	3
ARCH 772	Representation II	3
<b>Total Credits</b>		<b>30</b>

Some of these requirements may be waived by the M.Arch Committee upon an applicant's acceptance to the program or upon appeal, based on equivalent work. The requirements in the remaining two years include 60 graduate credits, 54 of which must be in architecture.

## Transcript-Designated Concentration in Real Estate Development

Students wishing to pursue this concentration must be enrolled in the Master of Architecture program and complete a minimum of 21 credits from the following groups of courses:

Code	Title	Credits
<b>Real Estate Required Core</b>		
ARCH 780	The Built Environment and Real Estate Development	3
BUS ADM 481	Real Estate Finance & Asset Management	3
or BUS ADM 483	Property Development and Management	
<b>Real Estate Electives</b> <sup>1</sup>		<b>6</b>
<b>Capstone Requirement</b> <sup>2</sup>		
500-level or higher architecture elective		3
Select one of the following:		6
ARCH 800	Design Elective:	
ARCH 812	Graduate Design III:	
ARCH 891	Master's Project	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015), sarup-grad@uwm.edu.

<sup>2</sup> Real estate focus.

## Additional Requirements

### Major Professor as Advisor

The student must have a professor to advise and supervise the student's studies as specified in Graduate School regulations.

## Architecture, MS

This 30-credit non-professional degree program is appropriate for students who want to develop a personalized and specialized program of architectural studies centered on scholarly studies and research. Graduates will bring specialized knowledge to diverse professional settings that involve collaboration, interaction and communication with other professionals. Students propose their own course of study, to be reviewed and approved by faculty in accordance with the program requirements. Students may use the degree to explore their chosen field of research prior to continuation with PhD studies or, if they are mid-career professionals, may shape or extend their expertise in a particular field relevant to their area of practice.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

As an applicant, you must meet Graduate School requirements plus these Department of Architecture requirements to be eligible for consideration for admission to the program:

1. Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
2. Three letters of recommendation from people familiar with your academic and/or professional work.
3. Resume, Curriculum Vitae, or Biographical Statement.
4. Portfolio/Work Samples (examples of professional work, design work, research, teaching, and/or other work relevant to advanced research).
5. For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 may be considered for admission with the stipulation that further coursework in English be taken.

*In addition*, the Reasons Statement submitted to the Graduate School must also incorporate the following information:

1. Your proposed area of investigation.
2. A clear description of your intentions.
3. Why you believe the program is appropriate for your course of study.
4. How your proposed area of study fits with faculty interest areas.

## Credits and Courses

The minimum degree requirement is 30 graduate credits, of which 24 credits must be coursework in Architecture taken at the 500-level or above. Of the total 30 credits, each student is required to satisfy each of the four content areas below.

### Content Areas

Code	Title	Credits
<b>Research Methods and Techniques</b>		<b>6</b>
Select at least 6 credits of approved courses regarding research methods and techniques		
<b>Applied Practice</b>		<b>6</b>
Select at least 6 credits related directly to the application of the student's area of specialization to practical applications in architecture and/or related disciplines		
<b>Independent Work</b>		<b>3-6</b>
Select 3-6 credits from one or both of the following related to the student's area of specialization:		
ARCH 791	Master's Level Directed Research	
ARCH 792	Master's Level Independent Studies and Research	
<b>Related Elective(s)</b>		<b>3-6</b>
3-6 credits of electives related to the student's area of specialization		
<b>Pre-Thesis or Master's Project Research</b>		<b>3</b>
ARCH 794	Pre-Thesis or Master's Project Research	3
<b>Master's Thesis or Master's Project</b>		<b>6</b>
ARCH 890	Master's Thesis	
or ARCH 891	Master's Project	
<b>Total Credits</b>		<b>30-36</b>

Course requirements vary substantially depending upon the student's individualized program of study, which is developed in consultation and agreement with the student's faculty advisor.

## Additional Requirements

### Major Professor as Advisor

Upon admission, each student is assigned a faculty advisor to advise and supervise the student's studies.

### Master's Thesis or Project

The student must submit an acceptable master's thesis or master's project and orally defend it.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Architecture, PhD

The Department offers a program of advanced study and research leading to the PhD degree in Architecture. For over 35 years, the PhD Program in Architecture has been a mainstay of the University of Wisconsin-Milwaukee's reputation as a leader in architectural research and education. The PhD Program in Architecture is a community of scholars, practitioners, activists, and educators who are committed to advancing the discipline and practice of architecture. Situated within a professional school of architecture, the program is both curiosity-driven and action-oriented. The faculty and students at the School of Architecture and Urban Planning seek to advance architectural discourse and knowledge at multiple levels of inquiry. They embrace intellectual inclusiveness and critical examinations of society, culture, ecology and technology, while pursuing questions related to architectural history,

theory, and criticism, human experience, social justice, and environmental advocacy.

The PhD is a research degree that requires general proficiency in one's field, distinctive accomplishment in a specialized area of expertise, and the conduct of significant independent research. Thus, the PhD Program is appropriate for persons who wish to pursue research from a multi-disciplinary perspective and who seek careers in research, consulting, government, and/or teaching in architecture and the design profession.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The PhD program seeks to maintain a rich and diverse mix of students and thus encourages applicants with backgrounds in architecture, allied design fields, and/or the social and behavioral sciences. Likewise, the program is open to applicants holding undergraduate as well as graduate degrees. It is most important that applicants have a strong commitment to the conduct of advanced architectural research.

As an applicant, you must meet Graduate School requirements plus these Department of Architecture requirements to be eligible for consideration for admission to the program:

1. Undergraduate or graduate cumulative grade point average of at least 3.0 (4.0 scale).
2. Three letters of recommendation from persons in a position to assess your potential for advanced graduate research leading to a PhD.
3. Submission of test results from the General Test portion of the Graduate Record Examination. (<http://uwm.edu/graduateschool/admission/#gre>)
4. Resume, Curriculum Vitae, or Biographical Statement (1-2 pages total including your educational background, work/research experience, publications/projects completed and any recognitions/awards received).
5. Reasons Statement (2-3 page statement that includes your long-term goals, a summary of relevant work completed to date, your research interests, and your likely area of specialization within the doctoral program. Specifically address how your proposed program of study fits with the interests of program faculty).
6. For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT, or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

### Reapplication

A student who has received a master's degree in Architecture or in Urban Planning from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the PhD degree.

## Credits and Courses

The Ph.D. Program requires a minimum of 54 credits beyond the baccalaureate degree. It is a research degree structured around a series of related, typically sequential (but occasionally overlapping) requirements as follows:

1. Complete a minimum of one year of core courses in the area of concentration, and the minimum residence requirement of 27 graduate credits subsequent to attaining full doctoral status, and 54 credits beyond the baccalaureate degree.
2. Develop a program of study.
3. Undertake courses in the core, area of concentration, and major and minor fields of study. Course requirements vary substantially depending upon the student's program of study, developed in consultation with, and in agreement with, the student's major professor.
4. Conduct an intermediate research project.
5. Complete the doctoral preliminary examinations leading to advancement to candidacy with dissertator status.
6. Design, conduct and defend an original dissertation that makes an original contribution to the scholarship of the field.

Depending on background preparation and amount of time spent in full-time residency, students should be able to complete the degree in approximately four to six years. Individual timetables will vary depending upon background preparation and time spent in full-time residency.

## Additional Requirements

### Major Professor as Advisor

Upon admission, each student is assigned a faculty advisor. During the first semester, each student is expected to meet with their faculty advisor to develop a program of study. In general, the program of study consists of the proposed major field of study within the area of concentration, minor field(s) of study, and a brief description of coursework to be completed. Each student selects Major and Minor Professors to advise and supervise coursework and independent readings in preparation for the doctoral preliminary examination and completion of minor requirements. Upon admission to candidacy, each student defines a dissertation topic and selects a Major Professor as Dissertation Chair. Selection of the area of specialization and dissertation topic and of the Major and Minor Professors and Dissertation Chair is subject to approval by the PhD Program Committee.

### Foreign Language Requirement

A foreign language requirement is optional, depending upon the recommendation of the student's Major Professor and the PhD Program Committee.

### Residence

The student must meet minimum Graduate School residence requirements.

### Doctoral Preliminary Examinations

The student must pass doctoral preliminary examinations ("prelims") to qualify for formal admission to candidacy for the degree. The Graduate School requires that you pass your prelims within five years of initial enrollment in your doctoral program.

The prelims have three written components and one oral review. The three written portions include questions on:

1. Theory.
2. Methods.
3. Substantive area(s) of specialization and the minor field of study.

### Candidacy

The student is officially admitted to candidacy for the PhD degree after completing the residence requirement, core courses and intermediate research project, completing the courses in the area of specialization and minor field, and passing the doctoral preliminary examinations (and language examination, if required).

### Dissertation

The candidate must design, conduct, and write a research dissertation which demonstrates ability to formulate a research topic and pursue independent and original research that makes a contribution to the field. Selection of the dissertation topic, Dissertation Chair, and Dissertation Committee is subject to approval of the PhD Program Committee.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation. For more information on the dissertation defense, contact the graduate advisor in the School of Architecture and Urban Planning Student Advising Office, AUP 225.

### Continuation

For further information about departmental policies in the PhD program, please contact the graduate advisor in the School of Architecture and Urban Planning Student Advising Office, AUP 225.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information on Graduate School PhD requirements, see the Doctor of Philosophy Degree Requirements (<http://uwm.edu/graduateschool/doctoral-requirements/#residence>).

## Urban Design, MUD (Department of Architecture)

The Master of Urban Design is a non-professional degree jointly offered by the Department of Architecture and the Department of Urban Planning. The 30-credit, studio-based curriculum can be completed in a 12-month period.

The degree program provides students with high quality and diverse urban design skills that can be immediately practiced after graduation. Graduates of the program will have the knowledge and skills to create sustainable, equitable, and prosperous urban spaces in rapidly changing urban environments, such as preparing design guidelines for different levels of public agencies; designing new or infilled urban neighborhoods and public spaces; planning infrastructure such as streets, pedestrian and bicycle networks, and public transit facilities; and addressing environmental concerns through ecological design.

### Stem-Designated Degree Program

The Master of Urban Design is an approved field of study within the U.S. government’s official STEM fields list.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements in addition to the following requirements to be considered for admission to the program:

- A Bachelor’s degree in architecture, landscape architecture, design-focused urban planning, interior design, or other disciplines approved by the MUD faculty.
- A background in design studios from the above disciplines and cumulative GPA of at least 3.0 (4.0 scale).
- All applicants are required to submit three recommendation letters from three previous faculty and/or professionals.
- All applicants need to submit an electronic portfolio. The portfolio should show evidence of interest in design, and it should be carefully conceived, well designed, neatly prepared, and easily readable digitally.
- International students are required to submit test results from the TOEFL [minimum score: 100 (iBT) or IELTS (minimum score: 7.0)].

## Credits and Courses

The program requirements are comprised of 30 credits, of which at least 12 credits are taken from the Department of Architecture and 12 credits from the Department of Urban Planning. In the 30 credits, 15 are required, and 15 credits will be taken from accepted urban design-related elective courses. Up to 6 credits can be taken from an internship or an independent study, including summer study abroad.

Code	Title	Credits
ARCH 800	Design Elective: (Urban Design-related topic)	6
URBPLAN 857 or URBPLAN 751	Urban Design as Public Policy Introduction to Urban Design and Physical Planning	3
URBPLAN 858	Studio in Urban Design and Physical Planning	6
<i>Complete 15 credits from the following list:</i>		<b>15</b>
ARCH 550G	Seminar in Building Types and Settings	
ARCH 560G	Introduction to Historic Preservation	
ARCH 583G	Emerging Digital Technology: (VR: Visualization, Interaction and Collaboration)	
ARCH 584G	Urban Landscape Architecture	
ARCH 723	Fundamentals of Ecological Architecture	
ARCH 751	Survey of Architectural History & Theory	
ARCH 752	History & Theory III	
ARCH 760	History of Building Technology	
ARCH 780	The Built Environment and Real Estate Development	

ARCH 788	Green Building Seminar
ARCH 791	Master's Level Directed Research <sup>1</sup>
ARCH 792	Master's Level Independent Studies and Research <sup>1</sup>
ARCH 797	Study Abroad: <sup>1</sup>
ARCH 801	Special Topics: (3D Scanning)
ARCH 860	Topics in Architectural History & Theory:
URBPLAN 651G	Land Use Planning Practice
URBPLAN 662G	Public Sector Influence on Real Estate Development
URBPLAN 692G	Special Topics in Urban Planning: (Physical Planning and Municipal Engineering)
URBPLAN 772	Pedestrian and Bicycle Transportation
URBPLAN 797	Study Abroad: <sup>1</sup>
URBPLAN 991	Legislative/Administrative Agency Internship <sup>1</sup>
URBPLAN 999	Independent Study <sup>1</sup>

**Total Credits** **30**

<sup>1</sup> Up to 6 credits of an internship, independent study, or study abroad course may be applied to a student's degree requirements.

## Additional Requirements

### Time Limit

Full-time students without deficiencies are expected to complete all degree requirements within twelve months of first enrollment. All degree requirements must be completed within three years of first enrollment.

## Urban Planning

Planners work to enhance quality of life and social equity for all, whether working on revitalizing an older neighborhood or developing a regional transportation plan that enhances opportunities for people of all incomes,

ages, and physical abilities. Planners address the diverse needs of community members to build a better future.

Urban planning is an interdisciplinary field of study, reflected in the academic backgrounds of our faculty (<http://uwm.edu/sarup/classification/urban-planning/>) who have expertise in economics, urban design, urban revitalization, transportation, sustainability, and the intersections between these areas of study.

Although the professional planning program offered at UWM is a master's degree requiring two years of graduate study, a number of planning courses are available to undergraduates. They include:

1. A cluster of introductory courses reviewing urban problems and solutions for freshmen and sophomores, and introducing urban planning to upper-level undergraduates.
2. A cluster presenting the planning process in a general urban context.
3. A group of upper-level courses that introduce more specialized aspects of planning in contexts ranging from neighborhoods, through suburbs, to new towns and planned communities; and approaches from fiscal planning to environmental issues.

These courses are offered to students interested in learning more about planning and the roles of planners in addressing urban problems, and complement other programs such as architecture, business, economics, engineering, geography, social work, sociology, and political science.

## Programs

- Geographic Information Systems, Graduate Certificate (School of Architecture and Urban Planning) (p. 89)
- Urban Design, MUD (Department of Urban Planning) (p. 90)
- Urban Planning, MUP (p. 91)
- Urban Planning, MUP/Architecture, MArch (p. 93)
- Urban Planning, MUP/Engineering, MS (p. 94)
- Urban Planning, MUP/Public Administration, MPA (p. 95)
- Urban Planning, MUP: Geographic Information Systems (p. 95)
- Urban Planning, MUP: Real Estate Development (p. 97)
- Urban Planning, Undergraduate Certificate (p. 99)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Ernest Alexander	Professor	PhD			✓
Carolyn Esswein	Adjunct Assistant Professor	MArch, MUP	University of Wisconsin-Milwaukee		
Enrique Figueroa	Associate Professor	PhD			✓
Nancy Frank	Associate Professor	PhD	State University of New York at Albany		
Kirk Harris	Associate Professor	PhD	Cornell University	✓	
Wililam Huxhold	Professor	MS			✓
Mordecai Lee	Professor	PhD			✓
Joseph Mangiamele	Professor	PhD			✓
Robert Schneider	Associate Professor, Chair	PhD	University of California, Berkeley	✓	
Sammis White	Professor	PhD			✓

## Contact Information

Department of Urban Planning  
2131 E. Hartford Avenue

Milwaukee, WI 53211

[uwm.edu/sarup/urban-planning/](http://uwm.edu/sarup/urban-planning/) (<http://uwm.edu/sarup/urban-planning/>)



# Geographic Information Systems, Graduate Certificate (School of Architecture and Urban Planning)

The Certificate in Geographic Information Systems is designed for those individuals seeking careers as GIS specialists, providing geographic data management, spatial analysis, and GIS system management support to professionals in a broad range of disciplines, such as criminal justice, health services, city and regional planning, civil and environmental engineering, transportation, and marketing. Certificate holders will seek employment in positions such as “GIS Specialist,” “GIS Analyst,” or “GIS Coordinator.”

The School of Architecture and Urban Planning in the College of the Arts & Architecture and the College of Letters and Science jointly offer the certificate. The core courses (12 credits) focus on the structure of geographic data, components for managing geographic information systems, spatial analysis, and delivery of geographic information through maps and displays. Students select the remaining 6 credits for the certificate from electives, which may include an internship, in areas such as remote sensing, map-making, and data management systems.

Upon completion of the certificate courses, a student is awarded the certificate which qualifies for 5 credential points in the GIS Certification Institute’s standards for professional certification in GIS.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

A minimum of 6 credits each in Urban Planning and Geography courses are required for completion of the certificate. To earn the Certificate, one must complete six semester-long courses (with a minimum of 18 credits), satisfy graduate school criteria for successful completion and maintain at least a B (3.00) average in all courses. No more than 3 credits of Internship or Independent Study will be counted towards the Certificate. The program requirements are as follows:

Code	Title	Credits
<b>Required</b>		<b>12</b>
<i>Tier 1 (select one course)</i>		
GEOG 726	Geographic Information Science	
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
<i>Tier 2 (select one course)</i>		
GEOG 826	Intermediate Geographic Information Science	
URBPLAN 792	Using Urban Geographic Information Systems (GIS) for Planning	
<i>Tier 3 (Select two courses)</i>		
GEOG 704	Remote Sensing: Environmental and Land Use Analysis	
GEOG 705	Cartography	
URBPLAN 793	Applied Projects in Urban Geographic Information Systems	
URBPLAN 794	Internet Geographic Information Systems (GIS)	
ANTHRO 562	Techniques and Problems in Archaeology	
BUS ADM 749	Data and Information Management	
<b>Electives</b>		<b>6</b>
Select six credits in courses from the list below:		
GEOG 716	Watershed Analysis and Modeling	
GEOG 747	Spatial Analysis	
GEOG 798	GIS/Cartography Internship	
GEOG 804	Advanced Remote Sensing	
GEOG 999	Independent Work (with appropriate topic)	
URBPLAN 692	Special Topics in Urban Planning:	
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
URBPLAN 792	Using Urban Geographic Information Systems (GIS) for Planning	
URBPLAN 793	Applied Projects in Urban Geographic Information Systems	
URBPLAN 794	Internet Geographic Information Systems (GIS)	
URBPLAN 991	Legislative/Administrative Agency Internship	
URBPLAN 999	Independent Study	
ANTHRO 380	Anthropological Applications of GIS	
ANTHRO 562	Techniques and Problems in Archaeology	
ANTHRO 768	Topics in Advanced Research Design in Anthropology	
BUS ADM 749	Data and Information Management	
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS	
INFOST 465	Legal Aspects of Information Products and Services	
INFOST 691	Special Topics in Information Science:	
INFOST 714	Metadata	

Other courses as approved by the GIS Certificate Subcommittee<sup>1</sup>

**Total Credits** **18**

<sup>1</sup> Tier 1, 2, or 3 courses may count as electives once the Tier requirements have been satisfied.

## Advising

Students will be advised by the Geography and Urban Planning faculty who teach GIS courses.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. To be eligible for transfer, the course must have been completed within the last two years. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Gainful Employment Disclosure Information

- UWM Financial Aid Gainful Employment (<https://uwm.edu/onestop/finances/receiving-financial-aid/non-degree-students/#primary>)
- Gainful Employment Disclosure Information (<https://uwm.edu/gis-certificate/wp-content/uploads/sites/323/2019/06/gis-cert-gedt-2019.pdf>)

## Urban Design, MUD (Department of Urban Planning)

The Master of Urban Design is a non-professional degree jointly offered by the Department of Architecture and the Department of Urban Planning. The 30-credit, studio-based curriculum can be completed in a 12-month period.

The degree program provides students with high quality and diverse urban design skills that can be immediately practiced after graduation. Graduates of the program will have the knowledge and skills to create sustainable, equitable, and prosperous urban spaces in rapidly changing urban environments, such as preparing design guidelines for different levels of public agencies; designing new or infilled urban neighborhoods and public spaces; planning infrastructure such as streets, pedestrian and bicycle networks, and public transit facilities; and addressing environmental concerns through ecological design.

### Stem-Designated Degree Program

The Master of Urban Design is an approved field of study within the U.S. government's official STEM fields list.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements in addition to the following requirements to be considered for admission to the program:

- A Bachelor's degree in architecture, landscape architecture, design-focused urban planning, interior design, or other disciplines approved by the MUD faculty.
- A background in design studios from the above disciplines and cumulative GPA of at least 3.0 (4.0 scale).
- All applicants are required to submit three recommendation letters from three previous faculty and/or professionals.
- All applicants need to submit an electronic portfolio. The portfolio should show evidence of interest in design, and it should be carefully conceived, well designed, neatly prepared, and easily readable digitally.
- International students are required to submit test results from the TOEFL [minimum score: 100 (iBT) or IELTS (minimum score: 7.0)].

## Credits and Courses

The program requirements are comprised of 30 credits, of which at least 12 credits are taken from the Department of Architecture and 12 credits from the Department of Urban Planning. In the 30 credits, 15 are required, and 15 credits will be taken from accepted urban design-related elective courses. Up to 6 credits can be taken from an internship or an independent study, including summer study abroad.

Code	Title	Credits
ARCH 800	Design Elective: (Urban Design-related topic)	6
URBPLAN 857 or URBPLAN 751	Urban Design as Public Policy Introduction to Urban Design and Physical Planning	3
URBPLAN 858	Studio in Urban Design and Physical Planning	6
<i>Complete 15 credits from the following list:</i>		<i>15</i>
ARCH 550G	Seminar in Building Types and Settings	
ARCH 560G	Introduction to Historic Preservation	
ARCH 583G	Emerging Digital Technology: (VR: Visualization, Interaction and Collaboration)	
ARCH 584G	Urban Landscape Architecture	
ARCH 723	Fundamentals of Ecological Architecture	
ARCH 751	Survey of Architectural History & Theory	
ARCH 752	History & Theory III	
ARCH 760	History of Building Technology	
ARCH 780	The Built Environment and Real Estate Development	
ARCH 788	Green Building Seminar	
ARCH 791	Master's Level Directed Research <sup>1</sup>	
ARCH 792	Master's Level Independent Studies and Research <sup>1</sup>	
ARCH 797	Study Abroad: <sup>1</sup>	
ARCH 801	Special Topics: (3D Scanning)	
ARCH 860	Topics in Architectural History & Theory:	
URBPLAN 651G	Land Use Planning Practice	
URBPLAN 662G	Public Sector Influence on Real Estate Development	
URBPLAN 692G	Special Topics in Urban Planning: (Physical Planning and Municipal Engineering)	
URBPLAN 772	Pedestrian and Bicycle Transportation	
URBPLAN 797	Study Abroad: <sup>1</sup>	
URBPLAN 991	Legislative/Administrative Agency Internship <sup>1</sup>	
URBPLAN 999	Independent Study <sup>1</sup>	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Up to 6 credits of an internship, independent study, or study abroad course may be applied to a student's degree requirements.

## Additional Requirements

### Time Limit

Full-time students without deficiencies are expected to complete all degree requirements within twelve months of first enrollment. All degree requirements must be completed within three years of first enrollment.

## Urban Planning, MUP

### Related Certificates

- Certificate in Geographic Information Systems (p. 89)

### Overview

The Urban Planning program at UWM is a professional, skills-oriented, master's program designed to train students to perform a variety of planning-related jobs in either the public or private sector.

The program focuses on planning as a process for improving collective decisions in the public and private sectors. The planning process includes analyzing problems, designing alternative solutions and evaluating their consequences, developing strategies for action and participating in their implementation. This process is used in both government and business in developing policy for future action, so that today's solutions do not become tomorrow's problems.

The program's elective courses combined with other courses on campus enable the development of more specialized depth in several planning related areas under the following concentrations: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources.

The Department is staffed by faculty members who combine academic and professional qualifications and who are committed to active involvement in current issues. They teach by example, using case studies and projects involving actual situations in most courses. This approach injects reality into the educational environment, allows students to see the relevance of the material in the curriculum, and shows students how their courses relate to their professional practice.

The Milwaukee Metropolitan area of one-and-one-half million persons is a learning laboratory that classroom projects and faculty researchers use extensively. Moreover, students gain additional practical experience through internships in the wide array of planning positions available in the Milwaukee area.

## MARCH/MUP Coordinated Degree Program

In cooperation with the Department of Architecture, the Department of Urban Planning offers a Master of Architecture/Master of Urban Planning program to prepare students for positions as architect/planners. Students in the program concurrently pursue a Master of Architecture degree program and a Master of Urban Planning degree program. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree. For more detailed information on this program see Credits and Courses section below.

## MS/MUP Coordinated Degree Program

In cooperation with the College of Engineering and Applied Science, the Department of Urban Planning offers a Master of Science in Engineering/Master of Urban Planning program to prepare students for positions in transportation, public works or similar areas. Students in the program

will concurrently pursue a Master of Urban Planning degree program in the Department of Urban Planning and a Master of Science in Engineering degree program from the College of Engineering and Applied Science. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## MPA/MUP Coordinated Degree Program

A joint degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently. This program is intended to combine professional training in planning with applied administrative and managerial skills. More detailed information on this program can be found later in this section and in the Public Administration section of this Bulletin.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus these Department of Urban Planning requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
- Three letters of recommendation from three previous faculty and/or professionals.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

Candidates seeking admission to the M.Arch/MUP, the MPA/MUP, or the MS/MUP program must apply to and be admitted to both programs. The requirements for admission to the Master of Architecture degree program are detailed in the Architecture section of this Catalog. The requirements for admission to the Master of Science in Engineering program are detailed in the Engineering section of this Catalog. The requirements for admission to the MPA program are detailed in the Public Administration section of this Catalog.

## Credits and Courses

The minimum degree requirement is 48 credits. Of these 48 credits, 27 are taken in the core curriculum, consisting of the following courses:

Code	Title	Credits
<b>Core Curriculum</b>		
URBPLAN 701	Introduction to Land Use Planning	1
URBPLAN 702	Introduction to Planning Law	2
URBPLAN 711	Planning Theories and Practice	3
URBPLAN 720	Urban Development Theory and Planning	3

URBPLAN 721	Applied Planning Methods	3
URBPLAN 740	Data Analysis Methods I	3
URBPLAN 810	Planning Policy Analysis	6
URBPLAN 811	Applied Planning Workshop	3
Select one of the following:		3
URBPLAN 751	Introduction to Urban Design and Physical Planning	
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
URBPLAN 857	Urban Design as Public Policy	
<b>Concentration or Emphasis Area</b>		
Select a concentration or emphasis area		21
<b>Total Credits</b>		<b>48</b>

### Emphasis Areas

The remaining 21 credits may be taken in the general option or any of the emphasis areas listed under the Overview tab: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources. Each emphasis area consists of a recommended cluster of courses which may include one or more planning electives as emphasis area core courses, and a selection of electives from among planning and other courses. Details of the emphasis area can be obtained from the Department of Urban Planning and are finalized in consultation with the student's academic advisor.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

### Transfer Credits

Graduate coursework in urban planning or a related discipline taken prior to a student's admission to the program may be considered for transfer to the master's degree.

### Writing Assessment

Being able to write clearly and effectively is a critical skill for planners. The Urban Planning program encourages improvement in student's writing skills by emphasizing writing improvement across the curriculum, and especially in the core courses.

In some cases, students require more intense instruction to improve their skills to the level needed for planning practice. Faculty members assess student writing proficiency in the first semester core courses. Students who lack the required level of proficiency may be required to take a writing course as part of their second semester program of study. Writing proficiency is also a required element of the comprehensive exam.

### Comprehensive Examination

All students in the program must take a written comprehensive examination as a requirement for graduation. The examination is given between the second and third semesters so that any deficiencies can be eliminated in the second year of the program through structured courses or directed study. Successful completion of the exam, or successful completion of courses specified for removal of deficiencies, represents fulfillment of the comprehensive examination requirement. Students

in the M.S./MUP program also must take and pass the comprehensive examination in engineering.

### Thesis

No formal master’s project or master’s thesis is required for the MUP degree. However, a thesis may be substituted for as many as 6 elective credits. The student must obtain approval for the thesis proposal from any urban planning faculty member. The students may relate their thesis work to the program core, the general option or an emphasis option.

### Time Limit

The degree program itself is designed largely for full-time students. But the program does allow students up to seven years from the time of initial enrollment to complete all degree requirements.

Students in the M.Arch/MUP and MPA/MUP programs are allowed up to seven years from time of initial enrollment to complete all requirements for both degrees. Students in the M.S./MUP program are allowed up to five years from time of initial enrollment to complete all requirements for both degrees.

\*Note\* Individuals seeking to use the School’s Shop must first provide evidence of personal accident and health insurance to the Dean’s office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Urban Planning, MUP/Architecture, MArch

Joint program candidates must complete all of the requirements of the MArch (p. 73) degree and the requirements stipulated by the Department of Urban Planning. The Urban Planning Master’s program (<https://catalog.uwm.edu/arts-architecture//architecture-urban-planning/urban-planning/urban-planning-mup/>) is detailed in the Urban Planning section of this Catalog.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

Students in the M.Arch/MUP program are required to complete a total of 84 credits: 36 credits in urban planning, 42 credits in architecture, and 6 credits of graduate electives from any area.

Code	Title	Credits
<b>Urban Planning Requirements</b>		
URBPLAN 701	Introduction to Land Use Planning	1
URBPLAN 702	Introduction to Planning Law	2
URBPLAN 711	Planning Theories and Practice	3

URBPLAN 720	Urban Development Theory and Planning	3
URBPLAN 721	Applied Planning Methods	3
URBPLAN 740	Data Analysis Methods I	3
URBPLAN 810	Planning Policy Analysis	6
URBPLAN 811	Applied Planning Workshop	3
URBPLAN 751	Introduction to Urban Design and Physical Planning	3
URBPLAN 857	Urban Design as Public Policy	3
URBPLAN 858	Studio in Urban Design and Physical Planning	6

### Architecture Requirements<sup>1</sup>

<i>Design<sup>2</sup></i>		
ARCH 812	Graduate Design III:	6
ARCH 800	Design Elective:	6
URBPLAN 858	Studio in Urban Design and Physical Planning <sup>3</sup>	

<i>Practice</i>		
ARCH 743	Professional Practice III	3
URBPLAN 857	Urban Design as Public Policy <sup>3</sup>	

<i>Technology</i>		
ARCH 821	Building Technology III	3
ARCH 822	Building Technology IV	3
ARCH 823	Building Technology V	3

<i>Theory</i>		
ARCH 860	Topics in Architectural History & Theory:	3
URBPLAN 751	Introduction to Urban Design and Physical Planning <sup>3</sup>	

<i>Graduate Electives</i>		12
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At least 6 credits taken in architecture

<i>Capstone Requirement</i>		
A 500-level or higher architecture elective		3
ARCH 800	Design Elective:	6
or ARCH 812	Graduate Design III:	

<b>Total Credits</b>		<b>84</b>
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<sup>1</sup> Students who have completed any of the required architecture courses or their equivalents as undergraduates may substitute architecture electives.

<sup>2</sup> A minimum grade of “B” (3.00) is required in each design studio.

<sup>3</sup> Course satisfies Architecture Requirements; credits counted in Urban Planning Requirements.

## M.Arch/MUP Program Candidates

Coordinated degree program candidates must complete all of the requirements of the M.Arch degree and the requirements stipulated by the Department of Urban Planning. The Urban Planning Master’s program is detailed in the Urban Planning section of this Catalog.

## Additional Requirements

### Capstone Requirement

The student in the M.Arch/MUP program must complete the Architecture Capstone Requirement, and must also take and pass the comprehensive exam in Urban Planning.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Urban Planning, MUP/Engineering, MS

In cooperation with the Department of Urban Planning, the College of Engineering and Applied Science offers a Master of Science in Engineering/Master of Urban Planning program to prepare students for positions in transportation, public works or similar areas.

### Cooperating Departments:

Civil Engineering  
Electrical Engineering and Computer Science  
Industrial and Manufacturing Engineering  
Materials  
Mechanical Engineering

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

Students are required to meet the College of Engineering and Applied Science requirements for the Master of Science in Engineering degree as well as the requirements for a Master of Urban Planning degree as set by the Department of Urban Planning. Students in this program are required to take 15 credits in an approved program of technical studies in the College of Engineering and Applied Science, and 6 credits in nontransportation related engineering approved electives.

Students in the MS/MUP program are required to take 6 credits in the Department of Urban Planning as well as an additional 24 credits of core courses in the Department of Urban Planning. The total credit requirement for the MS/MUP program is 54 credits. Students in the MS/MUP program must also take and pass a comprehensive exam in Urban Planning.

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

Code	Title	Credits
<b>Urban Planning Core Courses</b>		<b>27</b>
URBPLAN 701	Introduction to Land Use Planning	
URBPLAN 702	Introduction to Planning Law	
URBPLAN 711	Planning Theories and Practice	

URBPLAN 720	Urban Development Theory and Planning
URBPLAN 721	Applied Planning Methods
URBPLAN 740	Data Analysis Methods I
URBPLAN 810	Planning Policy Analysis
URBPLAN 811	Applied Planning Workshop
URBPLAN 751	Introduction to Urban Design and Physical Planning
or URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning
or URBPLAN 857	Urban Design as Public Policy

**Total Credits** 27

Code	Title	Credits
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### MS Thesis Option

Urban Planning Credits (See course list above)	27
Civil Engineering Concentration credits (see courses below)	15
Select 6 credits of approved electives	6
Select 3 credits CEAS Graduate Seminar	3
Select 3 credits of thesis	3

**Total Credits** 54

Code	Title	Credits
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### Non-Thesis Capstone Option

Urban Planning Credits (See course list above)	27
Minimum 18 credits approved credits including Civil Engineering Concentration (see courses below)	18
Select 6 credits of approved electives	6
Select 1 credits CEAS Graduate Seminar	1
Select 3 credits of capstone: Capstone course or flexible independent study	3

**Total Credits** 55

Code	Title	Credits
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### Non-Thesis Comprehensive Examination Option

Urban Planning Credits (See course list above)	27
Minimum 21 credits approved credits including Civil Engineering Concentration (see courses below)	21
Select 6 credits of approved electives	6
Select 1 credits CEAS Graduate Seminar	1

**Total Credits** 55

### Civil Engineering Concentration

A minimum of 15 credits of qualifying graduate courses in Civil Engineering.

### Qualifying Courses

Code	Title	Credits
Any Civ Eng courses numbered between 701 and 999, excluding 888 and 998.		15
May include up to 3 credits each of:		
CIV ENG 990	Masters Thesis	
CIV ENG 999	Advanced Independent Study	

**Total Credits** 15

## Additional Requirements

### Degree Requirements

Students in the program will concurrently pursue a Master of Science in Engineering degree and a Master of Urban Planning degree from the School of Architecture and Urban Planning. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree. Candidates seeking admission to the MS/MUP must apply to and be admitted to both programs. The requirements for admission to the Master of Urban Planning degree program are detailed in the Urban Planning section of the Catalog.

### Time Limit

Students in the MS/MUP program are allowed up to five years from time of initial enrollment to complete all requirements for both degrees.

## Urban Planning, MUP/Public Administration, MPA

The College of Letters and Science and the Lubar College of Business offer and present jointly the Master of Public Administration (MPA).

The program is designed to provide theoretical and practical preparation for careers in public and non-profit administration with three areas of concentration: municipal management, general public administration, and non-profit management.

A coordinated degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently.

This program is intended to combine professional training in planning with applied administrative and managerial skills. The MPA/MUP requirements are described later in this section.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

This program allows students to complete master's degrees in Public Administration and in Urban Planning concurrently. The coordinated degree requires 42-45 credits of required courses and completion of a concentration in Public Administration (18 credits). However, because some courses completed for the core requirements of the MUP also may count toward the MPA concentration, students may complete the dual degree with a minimum of 54-57 credits. The total number of credits will depend on the student's track and choice of concentration in public administration.

### Required Courses in Urban Planning (27 credits)

Code	Title	Credits
URBPLAN 701	Introduction to Land Use Planning	1
URBPLAN 702	Introduction to Planning Law	2
URBPLAN 711	Planning Theories and Practice	3

URBPLAN 720	Urban Development Theory and Planning	3
URBPLAN 721	Applied Planning Methods	3
URBPLAN 740	Data Analysis Methods I	3
URBPLAN 810	Planning Policy Analysis	6
URBPLAN 811	Applied Planning Workshop	3
Select one of the following:		3
URBPLAN 751	Introduction to Urban Design and Physical Planning	
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
URBPLAN 857	Urban Design as Public Policy	

**Total Credits** 27

### Required Courses in Public Administration (18 credits)

Code	Title	Credits
BUS ADM 738	Human Resource Management	3
URBPLAN 630	Budgeting and Finance in the Public Sector	3
POL SCI 763		3
PUB ADM 921	Public Service Administrative Internship <sup>1</sup>	3
or URBPLAN 991	Legislative/Administrative Agency Internship	
PUB ADM 959	Capstone Seminar in Public Administration	3
Select one seminar in organizational management and leadership from the following:		3
BUS ADM 731	Leadership in Diversity and Inclusion	
BUS ADM 732	Transforming Organizations	
BUS ADM 737	Managerial Decisions and Negotiations	

**Total Credits** 18

<sup>1</sup> The internship requirement will be waived for students with significant public sector work experience.

### Concentration Requirement (18 credits)

Completion of all the requirements for one of the concentrations in Public Administration. A maximum of six credits of MUP core courses may be used as electives in the MPA concentrations.

## Urban Planning, MUP: Geographic Information Systems

This concentration provides the skills and experience needed by professional planners to develop and use spatial analysis technology in both public and private organizations to improve their service delivery, management, and policy planning activities. Planning students learn state-of-the-art skills for using and analyzing data spatially in planning for improvements in transportation, housing, economic development, environment, natural resources, and related fields.

## Related Certificates

- Certificate in Geographic Information Systems (p. 89)

## Overview

The Urban Planning program at UWM is a professional, skills-oriented, master's program designed to train students to perform a variety of planning-related jobs in either the public or private sector.

The program focuses on planning as a process for improving collective decisions in the public and private sectors. The planning process includes analyzing problems, designing alternative solutions and evaluating their consequences, developing strategies for action and participating in their implementation. This process is used in both government and business in developing policy for future action, so that today's solutions do not become tomorrow's problems.

The program's elective courses combined with other courses on campus enable the development of more specialized depth in several planning related areas under the following concentrations: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources.

The Department is staffed by faculty members who combine academic and professional qualifications and who are committed to active involvement in current issues. They teach by example, using case studies and projects involving actual situations in most courses. This approach injects reality into the educational environment, allows students to see the relevance of the material in the curriculum, and shows students how their courses relate to their professional practice.

The Milwaukee Metropolitan area of one-and-one-half million persons is a learning laboratory that classroom projects and faculty researchers use extensively. Moreover, students gain additional practical experience through internships in the wide array of planning positions available in the Milwaukee area.

## MArch/MUP Coordinated Degree Program

In cooperation with the Department of Architecture, the Department of Urban Planning offers a Master of Architecture/Master of Urban Planning program to prepare students for positions as architect/planners. Students in the program concurrently pursue a Master of Architecture degree program and a Master of Urban Planning degree program. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree. For more detailed information on this program see Credits and Courses section below.

## MS/MUP Coordinated Degree Program

In cooperation with the College of Engineering and Applied Science, the Department of Urban Planning offers a Master of Science in Engineering/Master of Urban Planning program to prepare students for positions in transportation, public works or similar areas. Students in the program will concurrently pursue a Master of Urban Planning degree program in the Department of Urban Planning and a Master of Science in Engineering degree program from the College of Engineering and Applied Science. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## MPA/MUP Coordinated Degree Program

A joint degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently. This program is intended to combine professional training in planning with applied administrative and managerial skills. More detailed information on this program can be

found later in this section and in the Public Administration section of this Bulletin.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus these Department of Urban Planning requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
- Three letters of recommendation from three previous faculty and/or professionals.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

Candidates seeking admission to the M.Arch/MUP, the MPA/MUP, or the MS/MUP program must apply to and be admitted to both programs. The requirements for admission to the Master of Architecture degree program are detailed in the Architecture section of this Catalog. The requirements for admission to the Master of Science in Engineering program are detailed in the Engineering section of this Catalog. The requirements for admission to the MPA program are detailed in the Public Administration section of this Catalog.

## Credits and Courses

The minimum degree requirement is 48 credits. Of these 48 credits, 27 are taken in the core curriculum, consisting of the following courses:

Code	Title	Credits
<b>Core Curriculum</b>		
URBPLAN 701	Introduction to Land Use Planning	1
URBPLAN 702	Introduction to Planning Law	2
URBPLAN 711	Planning Theories and Practice	3
URBPLAN 720	Urban Development Theory and Planning	3
URBPLAN 721	Applied Planning Methods	3
URBPLAN 740	Data Analysis Methods I	3
URBPLAN 810	Planning Policy Analysis	6
URBPLAN 811	Applied Planning Workshop	3
Select one of the following:		
URBPLAN 751	Introduction to Urban Design and Physical Planning	3
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
URBPLAN 857	Urban Design as Public Policy	

### Concentration or Emphasis Area



Select a concentration or emphasis area	21
<b>Total Credits</b>	<b>48</b>

### Emphasis Areas

The remaining 21 credits may be taken in the general option or any of the emphasis areas listed under the Overview tab: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources. Each emphasis area consists of a recommended cluster of courses which may include one or more planning electives as emphasis area core courses, and a selection of electives from among planning and other courses. Details of the emphasis area can be obtained from the Department of Urban Planning and are finalized in consultation with the student's academic advisor.

### Transcript-Designated Concentration in Geographic Information Systems

Students must complete a minimum of 15 credits from the following groups of courses.

Code	Title	Credits
<b>Required</b>		<b>9</b>
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
URBPLAN 792	Using Urban Geographic Information Systems (GIS) for Planning	
URBPLAN 793	Applied Projects in Urban Geographic Information Systems	
<b>Electives</b>		<b>6</b>
Select a minimum of 6 elective credits <sup>1</sup>		
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> For list of qualifying courses, contact Student Advising Office, AUP 225 (414-229-4015, sarup-grad@uwm.edu).

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

### Transfer Credits

Graduate coursework in urban planning or a related discipline taken prior to a student's admission to the program may be considered for transfer to the master's degree.

### Writing Assessment

Being able to write clearly and effectively is a critical skill for planners. The Urban Planning program encourages improvement in student's writing skills by emphasizing writing improvement across the curriculum, and especially in the core courses.

In some cases, students require more intense instruction to improve their skills to the level needed for planning practice. Faculty members assess student writing proficiency in the first semester core courses. Students who lack the required level of proficiency may be required to take a writing course as part of their second semester program of study. Writing proficiency is also a required element of the comprehensive exam.

## Comprehensive Examination

All students in the program must take a written comprehensive examination as a requirement for graduation. The examination is given between the second and third semesters so that any deficiencies can be eliminated in the second year of the program through structured courses or directed study. Successful completion of the exam, or successful completion of courses specified for removal of deficiencies, represents fulfillment of the comprehensive examination requirement. Students in the M.S./MUP program also must take and pass the comprehensive examination in engineering.

### Thesis

No formal master's project or master's thesis is required for the MUP degree. However, a thesis may be substituted for as many as 6 elective credits. The student must obtain approval for the thesis proposal from any urban planning faculty member. The students may relate their thesis work to the program core, the general option or an emphasis option.

### Time Limit

The degree program itself is designed largely for full-time students. But the program does allow students up to seven years from the time of initial enrollment to complete all degree requirements.

Students in the M.Arch/MUP and MPA/MUP programs are allowed up to seven years from time of initial enrollment to complete all requirements for both degrees. Students in the M.S./MUP program are allowed up to five years from time of initial enrollment to complete all requirements for both degrees.

\*Note\* Individuals seeking to use the School's Shop must first provide evidence of personal accident and health insurance to the Dean's office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

## Urban Planning, MUP: Real Estate Development

A concentration in real estate development provides a focused course of study for Master of Architecture and/or Master of Urban Planning students who wish to pursue careers in real estate development in combination with professional architectural practice or work with a private or public developer.

## Related Certificates

- Certificate in Geographic Information Systems (p. 89)

## Overview

The Urban Planning program at UWM is a professional, skills-oriented, master's program designed to train students to perform a variety of planning-related jobs in either the public or private sector.

The program focuses on planning as a process for improving collective decisions in the public and private sectors. The planning process includes analyzing problems, designing alternative solutions and evaluating their consequences, developing strategies for action and participating in their implementation. This process is used in both government and business in developing policy for future action, so that today's solutions do not become tomorrow's problems.

The program's elective courses combined with other courses on campus enable the development of more specialized depth in several planning

related areas under the following concentrations: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources.

The Department is staffed by faculty members who combine academic and professional qualifications and who are committed to active involvement in current issues. They teach by example, using case studies and projects involving actual situations in most courses. This approach injects reality into the educational environment, allows students to see the relevance of the material in the curriculum, and shows students how their courses relate to their professional practice.

The Milwaukee Metropolitan area of one-and-one-half million persons is a learning laboratory that classroom projects and faculty researchers use extensively. Moreover, students gain additional practical experience through internships in the wide array of planning positions available in the Milwaukee area.

## MArch/MUP Coordinated Degree Program

In cooperation with the Department of Architecture, the Department of Urban Planning offers a Master of Architecture/Master of Urban Planning program to prepare students for positions as architect/planners. Students in the program concurrently pursue a Master of Architecture degree program and a Master of Urban Planning degree program. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree. For more detailed information on this program see Credits and Courses section below.

## MS/MUP Coordinated Degree Program

In cooperation with the College of Engineering and Applied Science, the Department of Urban Planning offers a Master of Science in Engineering/Master of Urban Planning program to prepare students for positions in transportation, public works or similar areas. Students in the program will concurrently pursue a Master of Urban Planning degree program in the Department of Urban Planning and a Master of Science in Engineering degree program from the College of Engineering and Applied Science. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## MPA/MUP Coordinated Degree Program

A joint degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently. This program is intended to combine professional training in planning with applied administrative and managerial skills. More detailed information on this program can be found later in this section and in the Public Administration section of this Bulletin.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus these Department of Urban Planning requirements to be considered for admission to the program:

- Undergraduate cumulative grade point average of at least 3.0 (4.0 scale).
- Three letters of recommendation from three previous faculty and/or professionals.
- For international applicants whose first language is not English, a minimum TOEFL score of 100 iBT or a score of 7.0 on the International English Language Testing System (IELTS) exam is required. Applicants with TOEFL scores from 79-99 iBT, or an IELTS score of 6.5 will be considered for admission only with the stipulation that further coursework in English be taken.

Candidates seeking admission to the M.Arch/MUP, the MPA/MUP, or the MS/MUP program must apply to and be admitted to both programs. The requirements for admission to the Master of Architecture degree program are detailed in the Architecture section of this Catalog. The requirements for admission to the Master of Science in Engineering program are detailed in the Engineering section of this Catalog. The requirements for admission to the MPA program are detailed in the Public Administration section of this Catalog.

## Credits and Courses

The minimum degree requirement is 48 credits. Of these 48 credits, 27 are taken in the core curriculum, consisting of the following courses:

Code	Title	Credits
<b>Core Curriculum</b>		
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URBPLAN 702	Introduction to Planning Law	2
URBPLAN 711	Planning Theories and Practice	3
URBPLAN 720	Urban Development Theory and Planning	3
URBPLAN 721	Applied Planning Methods	3
URBPLAN 740	Data Analysis Methods I	3
URBPLAN 810	Planning Policy Analysis	6
URBPLAN 811	Applied Planning Workshop	3
Select one of the following:		
URBPLAN 751	Introduction to Urban Design and Physical Planning	
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
URBPLAN 857	Urban Design as Public Policy	
<b>Concentration or Emphasis Area</b>		
Select a concentration or emphasis area		21
<b>Total Credits</b>		<b>48</b>

### Emphasis Areas

The remaining 21 credits may be taken in the general option or any of the emphasis areas listed under the Overview tab: Urban Revitalization; Economic Development; Urban Geographic Information Systems; Transportation; Physical Planning and Urban Design; and Environmental Resources. Each emphasis area consists of a recommended cluster of courses which may include one or more planning electives as emphasis area core courses, and a selection of electives from among planning and other courses. Details of the emphasis area can be obtained from the

Department of Urban Planning and are finalized in consultation with the student's academic advisor.

## Transcript-Designated Concentration in Real Estate Development

Students must complete a minimum of 21 credits from the following groups of courses.

Code	Title	Credits
<b>Real Estate Required Core</b>		<b>6</b>
ARCH 780	The Built Environment and Real Estate Development	
BUS ADM 481	Real Estate Finance & Asset Management	
or BUS ADM 483	Property Development and Management	
<b>Real Estate Electives and Capstone</b>		<b>15</b>
<b>Electives</b>		
Select 9-12 credits from the following:		
ARCH 560	Introduction to Historic Preservation	
ARCH 749	Urban Design as Public Policy	
ARCH 792	Master's Level Independent Studies and Research	
ARCH 794	Pre-Thesis or Master's Project Research	
URBPLAN 651	Land Use Planning Practice	
URBPLAN 662	Public Sector Influence on Real Estate Development	
URBPLAN 684	Planning Local Economic Development	
URBPLAN 762	Housing Markets and Public Policy	
URBPLAN 771	Transportation Policy and Planning	
URBPLAN 857	Urban Design as Public Policy	
URBPLAN 858	Studio in Urban Design and Physical Planning	
URBPLAN 991	Legislative/Administrative Agency Internship	
URBPLAN 999	Independent Study	
<b>Capstone</b>		
Select one of the following options:		
Option A: A thesis that focuses on real estate:		
URBPLAN 990	Graduate Thesis	
Option B: A real estate development proposal developed for a private organization (business or non-profit) that is innovative and adds significant value to the built environment:		
URBPLAN 999	Independent Study	
Option C: A paper suitable for publication concerning real estate development, for which the student is either sole author or co-author with a faculty member.		
URBPLAN 999	Independent Study	
<b>Total Credits</b>		<b>21</b>

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A

student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

### Transfer Credits

Graduate coursework in urban planning or a related discipline taken prior to a student's admission to the program may be considered for transfer to the master's degree.

### Writing Assessment

Being able to write clearly and effectively is a critical skill for planners. The Urban Planning program encourages improvement in student's writing skills by emphasizing writing improvement across the curriculum, and especially in the core courses.

In some cases, students require more intense instruction to improve their skills to the level needed for planning practice. Faculty members assess student writing proficiency in the first semester core courses. Students who lack the required level of proficiency may be required to take a writing course as part of their second semester program of study. Writing proficiency is also a required element of the comprehensive exam.

### Comprehensive Examination

All students in the program must take a written comprehensive examination as a requirement for graduation. The examination is given between the second and third semesters so that any deficiencies can be eliminated in the second year of the program through structured courses or directed study. Successful completion of the exam, or successful completion of courses specified for removal of deficiencies, represents fulfillment of the comprehensive examination requirement. Students in the M.S./MUP program also must take and pass the comprehensive examination in engineering.

### Thesis

No formal master's project or master's thesis is required for the MUP degree. However, a thesis may be substituted for as many as 6 elective credits. The student must obtain approval for the thesis proposal from any urban planning faculty member. The students may relate their thesis work to the program core, the general option or an emphasis option.

### Time Limit

The degree program itself is designed largely for full-time students. But the program does allow students up to seven years from the time of initial enrollment to complete all degree requirements.

Students in the M.Arch/MUP and MPA/MUP programs are allowed up to seven years from time of initial enrollment to complete all requirements for both degrees. Students in the M.S./MUP program are allowed up to five years from time of initial enrollment to complete all requirements for both degrees.

\*Note\* Individuals seeking to use the School's Shop must first provide evidence of personal accident and health insurance to the Dean's office. Since no accident or health insurance is provided to any user by the University, access to this resource will be prohibited to uninsured individuals.

## Urban Planning, Undergraduate Certificate

The Department of Urban Planning offers undergraduates the opportunity to obtain a Certificate in Urban Planning. All undergraduate students are eligible. The intent of the program is to recognize those students who obtain a thorough introduction to urban planning through coursework.

These courses provide students with an understanding of many of the most important problems facing urban society and help prepare students for a variety of careers and graduate study. Interested students should inquire in the Student Advising Office about either the Certificate Program or appropriate courses as preparation for graduate study in urban planning.

## Requirements

A cumulative GPA of 3.0 or better and a total of 15 credits from among designated courses are required.

Code	Title	Credits
<b>Designated Courses</b>		
URBPLAN 140	Issues in Contemporary Urban Planning	3
URBPLAN 141	Urban Planning Solutions to Contemporary Urban Problems	3
Select one "Great Cities" course:		3
URBPLAN 315	Great Cities of the World: Their Growth and Guided Urbanization	
URBPLAN 316	Planning for the Great Cities of America	
Select one skills course:		3
URBPLAN 591	Introduction to Urban Geographic Information Systems (GIS) in Planning	
URBPLAN 651	Land Use Planning Practice	
URBPLAN 655	Negotiation Theory and Practice for Urban Planners	
<b>Electives</b>		
Select 3 elective credits <sup>1</sup>		3
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Students may take any urban planning courses, including those listed above, to fulfill the elective credit requirement. Courses may be counted only once toward the certificate.

## Arts (Peck School of the)

The Peck School of the Arts includes five departments: Art & Design, Dance, Film, Music, and Theatre. Curricula are available for students interested in careers in the arts or in teaching at the elementary, secondary, or college level.

## Degree Programs

**Bachelor of Arts** Animation, Art, Dance, Music, Theatre

**Bachelor of Fine Arts** Art, Art Education, Dance, Film, Music, Music Education, Theatre

**Master of Arts** Art

**Master of Fine Arts** Art, Performing Arts (Dance and Film)

**Master of Music** (including Music Education)

**Master of Science** Art Education

## Departments and Programs

- Art & Design (p. 103)
  - Art and Design, Minor: Design (p. 108)
  - Art and Design, Minor: Photography (p. 109)
  - Art and Design, Minor: Studio Arts (p. 109)
  - Art Education, BFA (p. 110)
  - Art, BA: Community Arts (p. 113)
  - Art, BA: Studio Arts (p. 117)
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  - Arts Integration and Learning, Undergraduate Certificate (Peck School of the Arts, Department of Art and Design) (p. 124)
  - Community Arts, Undergraduate Certificate (p. 124)
  - Design and Visual Communication, BFA (p. 125)
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  - Studio Art, BFA: Dual Discipline Focus (p. 129)
  - Studio Art, BFA: Single Discipline Focus (p. 133)
- Dance (p. 137)
  - Dance Performance, Minor (p. 138)
  - Dance, BA (p. 139)
  - Dance, BFA (p. 142)
  - Dance, MFA (p. 145)
  - Pilates, Undergraduate Certificate (p. 146)
  - Somatics, Minor (p. 147)
- Film, Video, Animation and New Genres (p. 148)
  - Animation Arts, BA (p. 148)
  - Cinematic Arts, MFA (p. 151)
  - Film, BFA (p. 152)
  - Film, Video, Animation and New Genres, Minor (p. 156)
- Music (p. 157)
  - Music Education, BFA: EC-A General and Choral Music (p. 159)
  - Music Education, BFA: EC-A General Music (p. 162)
  - Music Education, BFA: EC-A K-12 Music (p. 165)
  - Music Performance, Graduate Certificate (p. 168)
  - Music, BA (p. 169)
  - Music, BFA: Collaborative Piano (p. 172)
  - Music, BFA: Guitar (p. 176)
  - Music, BFA: Music Composition and Technology (p. 180)
  - Music, BFA: Music History and Literature (p. 183)
  - Music, BFA: Piano (p. 186)
  - Music, BFA: Strings (p. 190)
  - Music, BFA: Versatile Voice (p. 194)
  - Music, BFA: Voice (p. 196)
  - Music, BFA: Winds, Brass, and Percussion (p. 199)
  - Music, Minor (p. 203)
  - Music, MM/Library and Information Science, MLIS (p. 203)
  - Music, MM: Chamber Music Performance (p. 205)
  - Music, MM: Collaborative Piano: Instrumental (p. 207)
  - Music, MM: Collaborative Piano: Vocal (p. 208)
  - Music, MM: Conducting: Choral Emphasis (p. 210)
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- Music, MM: Music Education (p. 213)
- Music, MM: Music History and Literature (p. 214)
- Music, MM: Performance: Guitar (p. 216)
- Music, MM: Performance: Keyboard (p. 217)
- Music, MM: Performance: Percussion (p. 219)
- Music, MM: Performance: String Emphasis (p. 221)
- Music, MM: Performance: Vocal Emphasis (p. 222)
- Music, MM: Performance: Woodwinds/Brass (p. 224)
- Music, MM: String Pedagogy (p. 226)
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- Theatre (p. 229)
  - Musical Theatre, Undergraduate Certificate (p. 230)
  - Theatre Practices, BA (p. 230)
  - Theatre Practices, BA: Theatre Education (p. 233)
  - Theatre, BFA: Performance (p. 237)
  - Theatre, BFA: Production (p. 242)
  - Theatre, Minor (p. 246)

## Graduate Requirements

Refer to individual graduate program pages for specific requirements. For the Graduate School's requirements, please refer to Graduate School Policies (p. 31).

## Undergraduate Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Admission

#### New Freshmen

New freshmen must meet the general University admission requirements (p. 17) in addition to specific department requirements. Admission to all music programs requires an audition and a theory placement examination. Admission to the Musical Theatre track of the Inter-Arts degree program requires a live audition interview. A portfolio of artworks is required by the Department of Art & Design. For details, please refer to the individual department sections of this catalog.

#### Transfer Students

Transfer students from other universities and colleges or UWM units are accepted by the Peck School of the Arts provided they meet the UWM admissions criteria and have a 2.0 cumulative GPA (on a 4-point scale). They must also meet the specific departmental audition requirements described above. Although a portfolio is not required for acceptance into

the Department of Art & Design, the submission of a portfolio is helpful in evaluating a student's work for advanced placement.

### Second Bachelor's Degree Candidates

Students with good scholastic records who wish to earn a second bachelor's degree in the Peck School of the Arts must obtain the recommendation of the Peck School of the Arts department in which they wish to major before they can be accepted. Upon acceptance, students must earn in residence a minimum of 30 credits beyond the studies for the first degree and must satisfy all curriculum requirements.

### New Major Program

By choosing this program, students who have completed baccalaureate degrees at UWM or other accredited institutions may earn an additional major only. It is not necessary to complete all requirements for an additional baccalaureate degree or to observe the 30-credit-in-residence regulation. At present, the Departments of Art & Design, Dance, Film, and Music offer majors through this option.

### Degree Requirements

Students must earn their last 30 credits in residence at UWM. Of this total, a minimum of 15 credits must be in advanced major subjects. Under extraordinary circumstances, a student may receive permission to earn a maximum of 9 credits of the last 30 credits at another college/university but must obtain the written approval of the Director of Student Services prior to enrollment in such courses.

### Bachelor of Arts Degree in Animation, Art, Dance, Music, and Theatre

Requires a total of 120 credits. To receive this degree students must:

1. Attain a minimum GPA of 2.0 for all university-level work;
2. Fulfill all the curriculum requirements of the School and of the departmental major, and the University's General Education Requirements;
3. Meet the specific departmental standards; and
4. Fulfill the residence requirements as detailed above.

See the individual department sections in this catalog for additional information.

### Bachelor of Fine Arts Degree in Art, Dance, Film, Music, or Theatre

Requires a total of 120-130 credits. To receive this degree students must:

1. Attain a minimum GPA of 2.0 for all university-level work;
2. Fulfill all the curriculum requirements of the School and of the departmental major, and the University's General Education Requirements;
3. Meet the specific departmental standards; and
4. Fulfill the residence requirements as detailed above.

### Bachelor of Fine Arts Degree with Teacher Certification in Art or Music and Bachelor of Arts Degree in Theatre with Teacher Certification

The BFA degree in Art Education or Music Education requires a total of 130 credits; the BA degree in theatre with teacher certification requires a total of 120 credits. To receive these degrees students must:

1. Attain a minimum cumulative GPA of 2.75;
2. Fulfill all curriculum requirements of the School, of the departmental major, and the University's General Education Requirements;
3. Fulfill the certification requirements in human relations (see School of Education section of this catalog), developmental reading, and

exceptional education (see Teacher Certification Program description below for details and admission requirements);

4. Fulfill the Act 31 certification requirement regarding "specific attention to the history, culture, and tribal sovereignty of the federally recognized American Indian tribes and bands located in this state" through selected coursework. Consult with the Director of Student Services for specific courses; and
5. Fulfill residence requirements as described above.

### Post-baccalaureate Teacher Certification Program

Offered in art, music, and theatre. All applicants should consult the appropriate department chairperson concerning requirements in these programs.

### Teacher Certification Program - Peck School of the Arts Requirements for Employment, Licensing, or Professional Organizations

Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

All PSOA teacher education students (art, music, theatre) are required to keep a portfolio of evidence to document satisfaction of PI 34 standards. Portfolio content is defined, evaluated, and reviewed by individual programs. Passing scores on the Praxis I and successful completion of K-12 required classes are required before admission to student teaching. Art, music, and theatre teacher education students are also required to pass the content test (Praxis II) prior to student teaching. See specific program for more information.

### Admission Requirements

All students should submit an application to the Director of Student Services and confer with the education area head of their department.

**Art education** students may apply to the program upon completion of 30 credits if they have fulfilled the freshman year foundation courses in art and the requirements listed below.

**Music education** majors may apply upon completion of 58 credits and junior standing and the requirements listed below.

**Theatre teacher certification** students may apply upon completion of the required 32-credit core in the major, junior standing, and the requirements listed below. In addition, theatre certification students must successfully pass an interview with theatre certification faculty.

All students must attain the following before making application to the teacher certification programs in art, music, and theatre:

**Grade Point Average.** 2.75.

### Communication Competency

A grade of C or higher in one of the following: COMMUN 101 or COMMUN 103.

The communicative abilities of students remain under constant review as a factor for retention in the program. Students experiencing communication difficulty may be remanded for remedial work. Students

who have satisfactorily completed an interpersonal course at another college or university may request an evaluation of their communication status through the Department of Communication.

### English Composition Requirement

The English Composition Requirement is satisfied by earning a grade of C or higher in ENGLISH 102 or its equivalent, or by scoring 637 or better on the English Placement Test (or an appropriate score as determined by the Department of English on the English ACT examination).

### Mathematical Skills Requirement

Must be demonstrated by achieving a placement code of at least 30 on the mathematics placement test, or by earning at least 3 credits with a grade of C or higher in MATH 103 (formerly MATH 106), MATH 105, MATH 175, or equivalent courses.

### Pre-Professional Skills Requirement (PPSR)

Must earn scores in Reading-175, Math-173, Writing-174. Registration forms are available in the Peck School of the Arts Office of Student Services.

### Developmental Reading Course Requirement

All teachers of special subjects (e.g., music, art, theatre) wishing to be certified by the State of Wisconsin (K-12) must complete one course in developmental reading at the elementary or secondary level.

At present, the Department of Teaching and Learning offers CURRINS 343, for those interested in the elementary level, and CURRINS 545, for those interested in the secondary level. Only one of these 3-credit courses is necessary to fulfill the requirement. This course may be applied toward the core curriculum requirement.

### Exceptional Education Requirement

Persons applying for an initial license to teach any subject in the elementary and secondary schools of Wisconsin after July 1, 1981, must have completed at least 3 credits or the equivalent study of exceptional education to be eligible for a license. See the Art, Dance, Music, or Theatre Department sections for appropriate course requirements.

### Student Teaching

Eligibility for student teaching is determined by admission to the Teacher Certification Program of the Peck School of the Arts, departmental recommendation, and completion of all prerequisite courses and any other departmental requirements.

In general, education methods courses are not transferable from other institutions. These courses must be taken in residence. Other criteria include removal of all incompletes in required courses, compliance with the Human Relations Requirement, satisfactory class standing, health clearance, recommendation by the department, and submission of the student teacher application.

Applications to student teach during the first semester are due March 15; during the second semester, October 15. Application blanks are available in, and must be filed with, the Peck School of the Arts Office of Student Services. No applications will be accepted after these dates.

### Teacher's License Applications

Students eligible for graduation are not automatically recommended for certification to the State Department of Public Instruction. They must first be approved for certification by their departments.

After all requirements for the BFA or BA degree with Teacher Certification or a post-baccalaureate degree certification program are completed, and the departmental approval is obtained, a student may apply for a state

teacher's license. A Wisconsin Credential Application form is available from:

Peck School of the Arts Office of Student Services  
UWM  
P.O. Box 413  
Milwaukee, Wisconsin 53201

or

Wisconsin Department of Public Instruction  
126 Langdon Street  
Madison, Wisconsin 53702

The Department of Public Instruction conducts a criminal record check of each applicant for a teaching license. Based on this information, an applicant may be denied a license even if recommended for certification by the University.

## Declaration of Submajor

In most instances, after two years of basic preparatory courses in the major, students choose an area of specialization within their respective departments, known as a submajor. Students must declare a submajor after they have accumulated 45 to 75 credits in order to assure completion of the appropriate curriculum requirements for graduation.

## Graduate Policies and Regulations

The Graduate School policies and regulations can be found at Graduate School Policies (p. 31). Please refer to the specific program for program policies and regulations.

## Undergraduate Policies and Regulations

### Academic Regulations

For information on the University-wide Academic Action Policy and honors for scholarship, see Academic Policies (p. 22).

### Semester Credit Load

A full-time Peck School of the Arts student is one who takes a minimum of 12 credits per semester. Normally, Peck School of the Arts students are not permitted to carry more than 18 credits per semester. Students who have a cumulative GPA of 3.0 or higher may, with the permission of the Peck School of the Arts Office of Student Services, carry up to 21 credits per semester.

### Program Changes

All program changes must be signed by the instructor and the Peck School of the Arts Office of Student Services.

No studio or performance courses may be dropped after the second week of classes without the written approval of the instructor and the department chairperson. Certain other courses may require this approval also and these will be indicated in the semester's *Schedule of Classes*.

### Audit Courses

No studio or performance courses may be audited.

### Independent Study

Under special conditions, juniors and seniors are permitted to take courses in independent study. For regulations on independent study, see the departmental advisor.

## Special Opportunities

### Honors Program

The Peck School of the Arts confers a Bachelor of Fine Arts Honors degree upon those students who complete the University Honors Program. The "Honors" designation appears on both the diploma and transcript.

This program offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences to qualified students who desire more intensive and individualized studies. Application forms and further information are available from the Honors College (p. 819), Honors House 154, (414) 229-4658.

### Foreign Study

The Peck School of the Arts looks favorably upon foreign educational experiences and encourages students to seek study abroad at accredited institutions. Every effort will be made to integrate such courses into a student's major program. Students should consult the departments involved prior to registration at a foreign university.

Periodically, the Department of Art & Design offers credit courses in foreign countries under the direction and instruction of Department of Art & Design faculty members.

## Administration

**Kevin Hartman**  
Dean

**Steve Wetzel**  
Interim Associate Dean

**Amanda Obermeyer**  
Assistant Dean, Business Administration

**Louis Molina**  
Assistant Dean, Student Services

**Rebecca Christman**  
Assistant to the Dean

### Contact Information

**Advising & Student Services**  
Theatre, 120

<https://uwm.edu/arts/advising>/<https://uwm.edu/arts/contact/>

## Art & Design

Art & Design at UW-Milwaukee develops creative thinkers, artist professionals, and cultural leaders through a cross-disciplinary curriculum that balances innovation, traditional craftsmanship, critical thinking, and scholarly civic engagement. Committed to Milwaukee's diverse urban communities, our programs emphasize activism and thinking with the arts. Our faculty is comprised of active artists who promote collaborative, interdisciplinary, and entrepreneurial thinking and practice across the department, university, community, and beyond!

## Programs

### Undergraduate Degrees

- Art Education, BFA (p. 110)
- Art, BA: Community Arts (p. 113)

- Art, BA: Studio Arts (p. 117)
- Design and Visual Communication, BFA (p. 125)
- Studio Art, BFA: Dual Discipline Focus (p. 129)
- Studio Art, BFA: Single Discipline Focus (p. 133)

## Undergraduate Certificates

- Arts Integration and Learning, Undergraduate Certificate (Peck School of the Arts, Department of Art and Design) (p. 124)
- Community Arts, Undergraduate Certificate (p. 124)
- Digital Fabrication and Design, Undergraduate Certificate (p. 129)

## Minor

- Art and Design, Minor: Design (p. 108)
- Art and Design, Minor: Photography (p. 109)
- Art and Design, Minor: Studio Arts (p. 109)

## Graduate Degrees

- Art, MA: Design Entrepreneurship and Innovation (p. 120)
- Art, MA: Studio Art (p. 121)
- Art, MFA (p. 122)

## Graduate Requirements

Refer to the individual graduate program for specific requirements. For the Graduate School's requirements, please refer to Graduate School Policies (p. 31).

## Undergraduate Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Bachelor of Fine Arts (Studio Art)

This undergraduate degree prepares students for entrance into professional art fields. Once students meet the 36-credit Art-Intended requirements, they are admitted to the Art & Design program. In addition to satisfying the core curriculum, art students select studio courses from both 2D and 3D disciplines, take required art history courses, choose studio electives, and begin satisfying the requirements of their declared art area concentration.

A choice of curricula is offered to permit students to concentrate in Ceramics, Digital studio practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography and Imaging, Print and Narrative Forms, or Sculpture. Students must complete a minimum of 24 credits

in their area of concentration but may take more by choosing additional studio electives in their area.

In order to graduate, students must complete two 3-credit critical thinking courses and a 4-credit capstone: ART 604 and ART 605. Students must complete a total of 85 credits of art to graduate with a BFA (Studio Art).

The Bachelor of Fine Arts (Studio Art) degree requires a total of 130 credits for graduation distributed as follows:

Code	Title	Credits
	University Core Curriculum (includes 12 credits Art History and 9 credits PSOA Arts Distribution)	45
	First Year Program	15
	Art and Design Courses	63
	Critical Thinking	6
	BFA Exhibition	1
<b>Total Credits</b>		<b>130</b>

*Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.*

### Bachelor of Fine Arts (Studio Art) in Design and Visual Communication

The Bachelor of Fine Arts in Design and Visual Communication degree requires a total of 130 credits for graduation distributed as follows:

Code	Title	Credits
	University Core Curriculum (includes 12 credits Art History and 9 credits PSOA Arts Distribution)	45
	First Year Program	15
	Art and Design Courses	63
	Critical Thinking	6
	BFA Exhibition	1
<b>Total Credits</b>		<b>130</b>

*Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.*

### Bachelor of Fine Arts (Art Education)

The Art Education program requires a total of 130 credits for graduation distributed as follows:

Code	Title	Credits
	University Core Curriculum (includes 12 credits Art History, 9 credits Education, and 6 credits PSOA Arts Distribution) <sup>1</sup>	45
	First Year Program	15
	Required Studio Courses <sup>2</sup>	39
	Critical Thinking	3
	Art Education Courses	28
<b>Total Credits</b>		<b>130</b>

<sup>1</sup> 12 cr Art History are included in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER. 9 cr School of Education courses are included in the Core Curriculum (See academic advisor). PSOA Arts Distribution for Art Education is 6 credits that the student must take within PSOA, outside of Art & Design, in two



of the four other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

<sup>2</sup> Art Education students are required to take the following Art Studio courses as part of these 39 credits: ART 201, ART 342, 18 cr of 200 level courses reflecting 2D, 3D studio and digital studio experiences, and 12 cr of upper-level studios to create further concentration in a studio area of choice. See academic advisor for 2D, 3D, and digital course designations at the 200 level, and for upper-level studios.

## Bachelor of Arts (Art)

The Bachelor of Arts (Art) degree requires a total of 120 credits for graduation distributed as follows:

Code	Title	Credits
	University Core Curriculum (includes 12 credits Art History and 9 credits PSOA Arts Distribution)	45
	First Year Program	15
	Art and Design Courses	18
	Directed Electives	30
	Critical Thinking	6
	Professional Practices	3
	BA Project	3
<b>Total Credits</b>		<b>120</b>

*Note: PSOA Arts Distribution is 9 credits that the student must take within PSOA, outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.*

## Area of Concentration Requirements and Enrollment Management

In order to maintain the highest quality of service to our students, all areas (Ceramics, Digital Studio Practice, Fibers, Jewelry and Metalsmithing, Painting and Drawing, Photography and Imaging, Print and Narrative Forms, Sculpture, Design and Visual Communication, and Art Education) may select their own enrollment management mechanisms. Options available to areas include portfolio review, gateway courses, registration prioritizing (ex: "seniors only" and/or "majors only" courses), higher GPA for the area of concentration, or other appropriate mechanisms. Students who successfully matriculate as BFA degree candidates should make themselves familiar with the requirements of their chosen area (as outlined in the undergraduate catalog). Students also should discuss area requirements with area faculty to ensure that they understand fully what will be required of them.

## Art & Design Graduate Admission Requirements

Each graduate program has admission requirements in addition to the general Graduate School admission requirements. Refer to Graduate Admission and Cost (p. 20) for the graduate school's admission requirements, and to the specific program for the program's admission requirements.

## Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major,

no further steps are required for acceptance into the Department of Art & Design.

## Scholarships

Declared majors in Art & Design should fill out the general scholarship application and department application (if applicable) by logging in to the Panther Scholarship Portal.

In addition, incoming undergraduate students should visit the Peck School of the Arts scholarship page for details on portfolio submissions.

## Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below).
2. Oral and Written Communications Competency Part A (OWC-A).
3. Quantitative Literacy Competency Part A (QL-A).
4. A cumulative GPA of 2.5 or higher.
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

Code	Title	Credits
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
<b>Total Credits</b>		<b>15</b>

## Appeal Process

An appeal process is established for students who do not meet the department's criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

## Art Education Advancement to Major

See the Art Education, BFA (p. 112) page for the Art Education advancement to major requirements.

## Art Education Certification Requirements

Following admission to the Art Education Program, and successful completion of the specified Art Education course of studies, a student

seeking recommendation for teacher certification must successfully fulfill the following requirements:

1. fulfill all degree requirements;
2. fulfill the field experience requirement;
3. maintain a 2.75 cumulative GPA or higher while being in the program;
4. maintain a 3.0 or higher in content area courses (Art & Art History) or pass the Praxis II Art Content Exam;
5. successfully complete student teaching; and
6. demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of art education through the use of a **Teaching Portfolio** (see description below):  
The Art Education Area and the Wisconsin Department of Public Instruction require that students compile a teaching portfolio that demonstrates teaching proficiency. The required reflections, artifacts, statements, and assessment composing this portfolio will be compiled mostly as a part of their major two art education methods classes (ART ED 327 and ART ED 328). Fewer documents will be produced during their student teaching capstone classes (ART ED 425 and ART ED 426). Some of the documents that this portfolio includes are: copy of current resume, teaching philosophy, reflections on the Ten Wisconsin Teaching Standards, artifacts supporting the reflections showing your work as a teacher and your students' work, lesson plans written and taught in field experiences, field experience assessments, and clinical assessments during student teaching.
7. Teacher Performance Assessment, EdTPA (see explanation below):  
This is a performance-based test in which student teachers plan, instruct, and assess a visual arts lesson plan for K-12 following the requirements outlined in the EdTPA Handbook. Among these requirements student teachers must show strong curriculum based on four types of objectives, the use of academic language derived from the research of art content and contexts, and cohesive sequencing of art appreciation, artmaking, and art critique. Along with all this, students should demonstrate a theoretical use of visual art learning theory, elaborated skills in the documentation of in-progress and finalized student work, and an ability to reflect on their own teaching, as a way to inform the following steps in their instructional sequence.

## Program-to-Program Articulation Agreements

The Department of Art & Design has Program-to-Program Articulation Agreements with several regional and international institutions, including the following agreements with the Milwaukee Area Technical College's (MATC) Graphic Design Associate Degree Program, Waukesha County Technical College's (WCTC) Graphic Design Associate Degree Program, and with the Hubei University of Technology in Wuhan, China.

### MATC Graphic Design Associate Degree and UWM Bachelor of Arts (Art) in Design Studies Degree Program

MATC students who have successfully completed the Graphic Design AAS degree will be granted junior status in the UWM PSO A&D BA in Design Studies program.

Laptops are required for the BA in Design Studies program.

Students need a 2.50 GPA from MATC and need to complete the OWC-A and QL-A requirements for UWM while at MATC. It's advisable that students also complete the Social Sciences, Natural Sciences, and

Cultural Diversity GER requirements as part of their MATC Graphic Design Associate Degree. Students should select from approved GER courses (SS, NS, NS+, CD/&). Students need to complete the UWM Foreign Language proficiency: two years of the same Foreign Language in High School, or two semesters of Foreign Language at MATC or UWM.

MATC students will enter the Department of Art & Design with up to 72 credits, and will take 58 credits minimum to complete the BA in Design Studies.

Program-to-Program transfer courses/credits are accepted only for the program/degree specified in this agreement. A change of major/degree/program invalidates these courses/credits for transfer unless they are approved within another Program-to-Program Articulation Agreement for a different major/degree/program at UWM.

Course	Title	Credits
<b>Year 3</b>		
<b>Fall</b>		
ART 106	Art Survey: Creative Practice, Culture and Context	3
ARTHIST 101	Ancient and Medieval Art and Architecture	3
ART 101	Drawing I	3
ART 422	Design Methodologies: Process, Communication & Theory	3
Art Studio Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ARTHIST 102	Renaissance to Modern Art and Architecture	3
ART 124	Design Survey	3
ART 324	Web Design	3
Art Studio Elective		3
Art Studio Elective		2
<b>Credits</b>		<b>14</b>
<b>Year 4</b>		
<b>Fall</b>		
Advanced Art History choice		3
ART 309	Issues in Contemporary Art:	3
ART 325	Web Design II	3
ART 524	Professional Practice in Design:	3
Art Studio Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 427	Advanced Design Workshop: (Design Studies BA Supervision)	1
ART 505	BA Project	3
ART 604	Professional Practices	3
Advanced Art History choice		3
ART 509	Art & Design Seminar: (subtitle)	3
Art Studio Elective		3
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>60</b>

### WCTC Graphic Design Degree and UWM Bachelor of Arts (ART) in Design Studies Degree Program

WCTC students who have successfully completed the Graphic Design AAS degree will be granted junior status in the UWM PSO A&D BA in Design Studies program.

Laptops are required for the BA in Design Studies program.

Students need a 2.5 GPA from WCTC and need to complete the prerequisite to OWC-A (801-195) and QL-A (804-118) requirements for UWM while at WCTC. It's advisable that students also complete the Social Sciences requirements as part of their WCTC Graphic Design

Associate Degree. Students should select from approved GER courses (SS). Students need to complete the UWM Foreign Language proficiency: 2 years of the same Foreign Language in High School, or 2 semesters of Foreign Language at WCTC or UWM.

WCTC students will enter the Department of Art & Design with up to 67 credits, and will take 56 credits minimum to complete the BA in Design Studies.

Program-to-Program transfer courses/credits are accepted only for the program/degree specified in this agreement. A change of major/degree/program invalidates these courses/credits for transfer unless they are approved within other Program-to-Program Articulation Agreement for a different major/degree/program at UWM.

### Four-semester course sequence for completion of the WCTC/UWM BA in Design Studies at UWM:

Course	Title	Credits
<b>Year 3</b>		
<b>Fall</b>		
ARTHIST 101	Ancient and Medieval Art and Architecture	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 422	Design Methodologies: Process, Communication & Theory	3
ENGLISH 102	College Writing and Research	3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ARTHIST 102	Renaissance to Modern Art and Architecture	3
ART 124	Design Survey	3
ART 109	3D Studio: Form, Idea and Technique	3
GER Natural Science		3
<b>Credits</b>		<b>12</b>
<b>Year 4</b>		
<b>Fall</b>		
Advanced Art History choice		3
ART 309	Issues in Contemporary Art: (Visiting Artist Lecture Series)	3
ART 325	Web Design II	3
GER Natural Science Lab		3
Art Studio Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 427	Advanced Design Workshop: (Design Studies BA Supervision)	1
ART 505	BA Project	3
ART 604	Professional Practices	3
Advanced Art History choice		3
ART 509	Art & Design Seminar: (subtitle)	3
Art Studio Elective		3
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>58</b>

### HUBEI 3+1 Bachelor of Arts (ART) Degree Programs

The Department of Art & Design and the Hubei University of Technology in Wuhan, China, have created a unique program for the students at Hubei University to finish their BA degree at UWM. There are two 3+1 BA tracks: Design Studies and Digital Fabrication and Design.

Laptops are required for both 3+1 BA programs. The goal of the Peck School of the Arts laptop requirement is to provide the opportunity for students to work extensively and intuitively with the most significant

contemporary tool for their work so that they will excel not only in their courses but also in their profession after they graduate.

### Hubei 3+1 BA in Design Studies

Students will enter UWM with 90 credits towards the BA in Design Studies (see sequence for Freshman, Sophomore, and Junior years above). The Senior year sequence of courses at UWM for the Hubei 3+1 BA in Design Studies follows:

Course	Title	Credits
<b>Year 4</b>		
<b>Summer</b>		
Optional: <sup>1</sup>		
EAP course (3 cr.)		
Art Directed Elective (3 cr.)		
<b>Credits</b>		<b>0</b>
<b>Fall</b>		
EAP 118		3
ART 309	Issues in Contemporary Art: (Visiting Artist Lecture Series)	3
ART 321	Design and Visual Communication I	3
ART 324	Web Design	3
ART 604	Professional Practices	3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ENGLISH 102	College Writing and Research	3
ART 212	Creative Technologies	3
ART 427	Advanced Design Workshop: (Design Studies BA Supervision)	1
ART 505	BA Project	3
ART 509	Art & Design Seminar:	3
ART 524	Professional Practice in Design:	3
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>31</b>

<sup>1</sup> Note: Summer Session is optional. Students who participate in summer session have the opportunity to gain more English language experience before beginning the fall semester, and also have the option to take extra electives during the year or spread out the required courses over 2 semesters + summer for a less-full workload.

### HUBEI 3+1 BA in Design and Digital Fabrication

Students will enter UWM with 90 credits towards the BA in Digital Fabrication and Design (see sequence for Freshman, Sophomore, and Junior years above). The Senior year sequence of courses at UWM for the Hubei 3+1 BA in Design and Digital Fabrication follows:

Course	Title	Credits
<b>Year 4</b>		
<b>Summer</b>		
Optional: <sup>1</sup>		
EAP course (3 cr.)		
Art Directed Elective (3 cr.)		
<b>Credits</b>		<b>0</b>
<b>Fall</b>		
EAP 118		3
ART 309	Issues in Contemporary Art: (Visiting Artist Lecture Series)	3
ART 378	Industrial Processes and Fabrication	3
ART 578	Research in Digital Fabrication and Craft: (subtitle)	3
ART 604	Professional Practices	3
<b>Credits</b>		<b>15</b>

Spring		
ENGLISH 102	College Writing and Research	3
ART 478	Digital Fabrication and Craft	3
ART 505	BA Project	3
ART 509	Art & Design Seminar	3
ART 612	Senior Project in Digital Studio Practice	3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Note: Summer Session is optional. Students who participate in summer session have the opportunity to gain more English language experience before beginning the fall semester, and also have the option to take extra electives during the year or spread out the required courses over 2 semesters + summer for a less-full workload.

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Kyoung Ae Cho	Professor	MFA	Cranbrook Academy of Art	✓	
Kimberly Cosier	Professor Emeritus	PhD	Indiana University		✓
Robert Grame	Associate Professor	MFA	Kansas State University	✓	
Debra Hardy	Assistant Professor	PhD	The Ohio State University		
Adam Hawk	Assistant Professor	MFA	Southern Illinois University	✓	
Cynthia Hayes	Teaching Faculty III	MFA	Michigan State University		
Yevgeniya Kaganovich	Professor	MFA	State University of New York at New Paltz	✓	
Oksana Kryzhanivska	Assistant Professor	PhD	University of Calgary	✓	
Nicolas Lampert	Teaching Faculty II	MFA	California College of the Arts		
Katie Martin-Meurer	Teaching Faculty III	MFA	University of Wisconsin-Milwaukee		
Erica Meier	Teaching Faculty II	MFA	University of Wisconsin-Madison		
Jessica Meuninck-Ganger	Associate Professor	MFA	Minneapolis College of Art and Design	✓	
Lisa Moline	Professor	MFA	University of Wisconsin-Madison	✓	
Joseph Mougel	Professor, Co-Chair	MFA	University of New Mexico	✓	
Josie Osborne	Teaching Faculty IV	MFA	University of Wisconsin-Madison		
Angela Piehl	Associate Professor	MFA	University of Arizona	✓	
Elizabeth Rex	Teaching Faculty III	PhD	Northern Illinois University	✓	
Nicole Ridgway	Teaching Faculty III	MA; MPhil	New York University; Columbia University	✓	
Nathaniel Stern	Professor	PhD	Trinity College Dublin	✓	
Leslie Vansen	Professor Emeritus	MFA	University of Colorado		✓
Melissa Wagner-Lawler	Teaching Faculty II	MFA	Minneapolis College of Art & Design		
Glenn Williams	Associate Professor, Co-Chair	MFA	University of Northern Iowa	✓	

## Contact Information

**Advising & Student Services**  
Theatre Building, Room 120

[uwm.edu/arts/students/advising/](http://uwm.edu/arts/students/advising/) (<http://uwm.edu/arts/students/advising/>)

## Art and Design, Minor: Design

Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor and the Photography Minor. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

## Requirements

The Art & Design Minor in Design consists of a minimum of 21 art credits. 12 of the final 15 credits must be taken at UWM. Art & Design minor students must maintain an overall GPA of 2.5.

Code	Title	Credits
<b>Required</b>		
ART 108	2D Studio: Concept, Color and Composition	3
ART 118	Digital Arts: Culture, Theory, Practice	3
ART 124	Design Survey	3

### Required 200-level Intro

ART 221	Introduction to Design	3
ART 223	Introduction to Typography	3
<b>300-level and Above</b>		
Select 6 credits from the following courses: <sup>1</sup>		6
ART 324	Web Design	
ART 325	Web Design II	
ART 329	Package Design	
ART 423	Experimental Typography	
ART 426	Motion Graphics	
ART 427	Advanced Design Workshop:	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> Select 6 credits of 300-level or above electives in Design from the list, in consultation with PSOA Academic Advising and Head of Design & Visual Communication. Students must be aware of the prerequisites for the 300+ level courses they wish to take. Design minor students are not eligible to take Design and Visual Communication Required Core Courses.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Art and Design, Minor: Photography

Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor and the Photography Minor. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

## Requirements

The Art and Design Minor in Photography consists of a minimum of 18 art credits. 12 of the final 15 credits must be taken at UWM. Art & Design minor students must maintain an overall GPA of 2.5.

Code	Title	Credits
<b>Required</b>		
Select one of the following:		3
ART 100	American Art and Culture	
ART 106	Art Survey: Creative Practice, Culture and Context	
ART 124	Design Survey	
ART 150	Multicultural America	
ART 152	Photography Survey	
ART 108	2D Studio: Concept, Color and Composition	3
or ART 118	Digital Arts: Culture, Theory, Practice	
<b>Required 200-level Intro</b>		
ART 253	Introduction to Photography	3
<b>300-level and Above</b>		
Select three of the following: <sup>1</sup>		9
ART 350	Intermediate Color Photography and Digital Imaging	
ART 357	Intermediate Studio Lighting	
ART 358	Intermediate Darkroom Photography (subtitle)	
ART 451	Special Topics in Photography:	
ART 452	Contemporary Issues in Photography	
ART 454	Narrative Photography	
ART 456	Advanced Photography & Imaging:	
ART 458	Photographic Materials and Processes	
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Select 9 credits of 300-level or above electives in Photography and Imaging from the list, in consultation with PSOA Academic Advising and Head of Photography and Imaging. Students must be aware of the prerequisites for the 300+ level courses they wish to take.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Art and Design, Minor: Studio Arts

Students choose between the Studio Minor (2D, 3D, and Digital Tracks), the Design Minor and the Photography Minor. Students must take note of prerequisites for 200-level and above coursework in Art & Design.

All students interested in enrolling as an Art & Design minor should contact the Art & Design Department undergraduate advisor to develop a plan of study prior to enrolling in art courses.

Students who decide to become Art & Design majors based on their Art & Design minor experience will need to complete the remaining First Year Program credits and the 200-level introductory studio courses prior to continuing with the remaining BA or BFA requirements.

## Requirements

The Art and Design Minor in Studio Arts consists of a minimum of 18 art credits. 12 of the final 15 credits must be taken in residence at UWM. Art & Design minor students must maintain an overall GPA of 2.5.

Code	Title	Credits
<b>Beginning Courses</b>		
<i>Select 3 credits from the following</i>		<b>3</b>
ART 100	American Art and Culture	
ART 106	Art Survey: Creative Practice, Culture and Context	
ART 124	Design Survey	
ART 150	Multicultural America	
ART 152	Photography Survey	
<i>Select 6 credits from the following<sup>2</sup></i>		<b>6</b>
ART 101	Drawing I <sup>1</sup>	
ART 108	2D Studio: Concept, Color and Composition	
ART 109	3D Studio: Form, Idea and Technique	
ART 118	Digital Arts: Culture, Theory, Practice	
<b>200-level Introductory Courses<sup>2</sup></b>		<b>3-6</b>
<i>Select 3-6 credits</i>		
<b>300-level and Above<sup>2</sup></b>		<b>3-6</b>
<i>Select 3-6 credits</i>		
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> ART 107 with the subject Beginning Drawing can be substituted for ART 101: Drawing 1 as they are a stacked course offering.

<sup>2</sup> Students should select all their courses with prerequisites and media specificity in mind, and discuss media pathways with PSOA Academic Advising. Students who elect to take 6 credits of 200-level courses will take 3 credits of 300+ coursework; students who elect to take 3 credits of 200-level courses will take 6 credits of 300+ coursework.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Art Education, BFA

This undergraduate degree prepares students to teach art both in schools and in the community. Once students are admitted to the Art & Design program, they can apply to the Art Education program through ART ED 227 (see Advance to Major (p. 112)). In addition to satisfying the core curriculum, art education students also must take required art history and critical thinking courses, and three education courses. They are required to take studio courses from both 2D and 3D disciplines, and to focus their choices of studio electives to develop an emphasis in an area. In addition to top-notch studio preparation in a wide range of media, our students focus on urban issues and art education for social justice. Theory is integrated into practical early field and student teaching experiences. Throughout the program, assessment is aligned with the requirements for licensure under "PI-34," the state law governing certification in Wisconsin. Students who demonstrate mastery of the knowledge, skills, and dispositions of professional educators during student teaching are recommended to the Department of Public Instruction in the State of Wisconsin for a PK4-12 teaching license.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Credit Overview

Code	Title	Credits
	University Core (p. 110)	45
	First Year Program (p. 111)	15
	Art & Design Core (p. 111)	39
	Major Requirements (p. 111)	28
<b>Total Credits</b>		<b>127</b>

### University Core

The minimum number of credits required to complete the Bachelor of Fine Arts in Art Education is 127. Students who need background preparation courses in math, English, and foreign language may need additional credits.

Code	Title	Credits
<b>General Education Requirements<sup>1</sup></b>		
	<i>Competencies<sup>1</sup></i>	
	English Parts A & B <sup>2</sup>	
	Math Parts A & B <sup>2</sup>	

Foreign Language <sup>2</sup>		
<i>Distribution Requirements</i> <sup>1</sup>		
ARTHIST 101	Ancient and Medieval Art and Architecture (counts as Humanities GER)	3
ARTHIST 102	Renaissance to Modern Art and Architecture (counts as Humanities GER)	3
Social Science <sup>3</sup>		
Natural Science (1 course with lab)		
Cultural Diversity <sup>2</sup>		
<b>Electives</b>		
General Elective outside PSOA		
3		
<i>Art &amp; Design History</i>		
ART 509	Art & Design Seminar:	3
Select one of the following:		
3		
ART 124	Design Survey	
ART 152	Photography Survey	
Advanced Art History Course <sup>4</sup>		
Select 2 areas in PSOA outside Art & Design		
6		
<i>Art in PSOA</i>		
ART 309	Issues in Contemporary Art:	3
<b>Education Courses</b>		
ED PSY 330	Introduction to Learning and Development	3
CURRINS 343	Teaching of Reading	3
or CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	
Select one of the following:		
3		
EXCEDUC 300	The Exceptional Individual	
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	
EXCEDUC 605	Child, Learner, Disabilities	
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 29).

<sup>2</sup> Credit may be utilized in required curriculum areas.

<sup>3</sup> Can be satisfied with COMMUN 101 and ACT 31.

<sup>4</sup> Any ARTHIST course above ARTHIST 102.

### First Year Program

Code	Title	Credits
2.5 cumulative GPA required:		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
<b>Total Credits</b>		<b>15</b>

### Art & Design Core

Code	Title	Credits
<b>Studio Courses</b>		
ART 201	Drawing II	3
ART 342	Figure Drawing	3
Select 21 credits of the following:		
21		
ART 212	Creative Technologies	
ART 218	Moving Images and Sound in Art & Design	
ART 221	Introduction to Design	
ART 223	Introduction to Typography	
ART 231	Introduction to Fibers	
ART 243	Introduction to Painting	
ART 253	Introduction to Photography	
ART 261	Introduction to Sculpture	
ART 271	Introduction to Jewelry and Metalsmithing	
ART 277	Design for Digital Fabrication	
ART 278	Introduction to Industrial Craft	
ART 281	Introduction to Ceramics	
ART 291	Introduction to Printmaking & Book Arts	
ART 306	Introduction to Community Art	
Studio Electives (choose 12 credits) <sup>1</sup>		12
<b>Total Credits</b>		<b>39</b>

<sup>1</sup> See academic advisor.

### Major Requirements

Code	Title	Credits
ART ED 227	Introduction to Art Education	3
ART ED 228	Learning Processes in Art Education	3
ART ED 327	Art Education Theory and Practice: Elementary	6
ART ED 328	Art Education Theory and Practice: Secondary	6
ART ED 425	Student Teaching in Art I - Elementary Levels	5
ART ED 426	Student Teaching in Art II: Secondary Levels	5
<b>Total Credits</b>		<b>28</b>

### Plan of Study

Year 1		Credits
Fall		Credits
(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 109	3D Studio: Form, Idea and Technique	3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
Spring		Credits
ART 201	Drawing II	3

ART 108	2D Studio: Concept, Color and Composition	3
ART 118	Digital Arts: Culture, Theory, Practice	3
Select one of the following:		3
200-level studio in Art		
University Core <sup>1</sup>		
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Year 2****Fall**

Students are reminded that admission to the Art & Design Program requires completion of the 36-credit Art-Intended requirements and that all First Year Program courses must be completed in the first 45 credits (usually in fall semester of sophomore year). Admission to the Pre-Art Ed Program requires completion of the 30-credit First Year Program and two 200-level studio courses.

Select one of the following:		3
200-level studio in Art		
ART ED 227	Introduction to Art Education	
200-level studio in Art		3
200-level studio in Art		3
ARTHIST 101	Ancient and Medieval Art and Architecture <sup>2</sup>	3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>18</b>

**Spring**

All Art Education intended students are required to participate in a proficiency review after completing ART ED 227 Introduction to Art Education with a grade of B or better. Students submit a portfolio of work from ART ED 227 to be reviewed by Art Education faculty. A review of the portfolios determines whether a student will be admitted into the Art Education Teacher Certification program, and enrolled in ART ED 327 Art Education Theory and Practice.

Select one of the following:		3
ART ED 227	Introduction to Art Education	
ART ED 228	Learning Processes in Art Education	
200-level studio in Art		
200-level studio in Art		3
200-level studio in Art		3
200-level studio in Art		3
ARTHIST 102	Renaissance to Modern Art and Architecture <sup>2</sup>	3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>18</b>

**Year 3****Fall**

ART ED 327	Art Education Theory and Practice: Elementary	6
Select one of the following:		3
ART ED 228	Learning Processes in Art Education	
200-level studio in Art		
ART 342	Figure Drawing	3
Art & Design History Choice		3
<b>Credits</b>		<b>15</b>

**Spring**

ART ED 328	Art Education Theory and Practice: Secondary	6
Studio Depth Elective <sup>3</sup>		3
ART 309	Issues in Contemporary Art: (subtitle)	3
Advanced Art History choice <sup>2</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>18</b>

**Year 4****Fall**

Studio Depth Elective <sup>3</sup>		3
Studio Depth Elective <sup>3</sup>		3
Studio Depth Elective <sup>3</sup>		3
ART 509	Art & Design Seminar:	3
University Core <sup>1</sup>		3

University Core <sup>1</sup>		3
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
ART ED 425	Student Teaching in Art I - Elementary Levels	5
ART ED 426	Student Teaching in Art II: Secondary Levels	5
<b>Credits</b>		<b>10</b>
<b>Total Credits</b>		<b>127</b>

<sup>1</sup> Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement for Art Education is part of the 45-credit Core: 6 credits outside of Art & Design, in 2 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

<sup>2</sup> The 12 Art History credits count in the Core Curriculum. Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

<sup>3</sup> 300+ level Studio Course

## Art & Design Undergraduate Admission Requirements

See the Admission section (p. 105) of the Art & Design department page for undergraduate admission requirements.

## Art Education Advancement to Major

Art Ed Intended designation is given to all students intending to pursue the BFA (Art Education). Art Ed Intended students will get priority registration in art courses over non-art majors. Art Ed Intended students may apply to this program upon completion of 30 art credits if the following requirements have been fulfilled:

1. First Year Program courses in art (see Art Education BFA requirements (p. 110)).
2. Oral and Written Communication Competency (Part A).
3. Quantitative Literacy Competency (Part A).
4. Communication Proficiency.
5. 2.75 cumulative grade point average (GPA).
6. Dept. of Public Instruction (DPI) Act 31 requirement. (This can be met by taking the Act 31 Workshop, HIST 263, AIS 203, ANTHRO 213, or ENGLISH 276, subtitled "Literature, History, and Sovereignty of Upper Midwest Indians" only).
7. Completion of ART ED 227 Introduction to Art Education, with a B or higher.

After successful completion of the above, students should contact the Peck School of the Arts Student Services Office by April 15 to get permission to enroll in ART ED 327 .

For further details and procedures, see the teacher certification degree requirements (p. 101) on the Peck School of the Arts catalog page.

## Art Education Certification Requirements

Following admission to the Art Education Program, and successful completion of the specified Art Education course of studies, a student seeking recommendation for teacher certification must successfully fulfill the following requirements:

1. fulfill all degree requirements;
2. fulfill the field experience requirement;



3. maintain a 2.75 cumulative GPA or higher while being in the program;
4. maintain a 3.0 or higher in content area courses (Art & Art History) or pass the Praxis II Art Content Exam;
5. successfully complete student teaching; and
6. demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of art education through the use of a **Teaching Portfolio** (see description below):

The Art Education Area and the Wisconsin Department of Public Instruction require that students compile a teaching portfolio that demonstrates teaching proficiency. The required reflections, artifacts, statements, and assessment composing this portfolio will be compiled mostly as a part of their major two art education methods classes (ART ED 327 and ART ED 328). Fewer documents will be produced during their student teaching capstone classes (ART ED 425 and ART ED 426). Some of the documents that this portfolio includes are: copy of current resume, teaching philosophy, reflections on the Ten Wisconsin Teaching Standards, artifacts supporting the reflections showing your work as a teacher and your students' work, lesson plans written and taught in field experiences, field experience assessments, and clinical assessments during student teaching.

7. Teacher Performance Assessment, EdTPA (see explanation below): This is a performance-based test in which student teachers plan, instruct, and assess a visual arts lesson plan for K-12 following the requirements outlined in the EdTPA Handbook. Among these requirements student teachers must show strong curriculum based on four types of objectives, the use of academic language derived from the research of art content and contexts, and cohesive sequencing of art appreciation, artmaking, and art critique. Along with all this, students should demonstrate a theoretical use of visual art learning theory, elaborated skills in the documentation of in-progress and finalized student work, and an ability to reflect on their own teaching, as a way to inform the following steps in their instructional sequence.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

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For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Art, BA: Community Arts

The Bachelor of Arts degree offers students a studio art experience to complement a broad exposure to the humanities, fine arts, social sciences, and natural sciences. Bachelor of Arts (Art) students have two course tracks to choose from: Studio Arts and Community Arts.

The Community Arts track is geared towards students interested in social engagement, environmental issues, community building, public art, and placemaking. Community Arts courses highlight art practices that integrate collaborative processes, social cooperation and service-learning experiences. They will be prepared to work as artists in grassroots organizations, community institutions, non-profit arts organizations, and educational institutions.

Students in the Community Arts track augment their studio research by completing the Cultures and Communities Certificate. As their capstone work, Community Arts BA students develop and execute a self-directed BA Project which is the culmination of their Community Arts research.

The courses required and recommended for this track are listed on the "Requirements" tab. The "Plan of Study" tab suggests course sequencing across all four years so students can meet the degree requirements.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Credit Overview

Code	Title	Credits
	University Core (p. 114)	45
	First Year Program (p. 114)	15
	BA Degree Requirements (p. 114)	9
	Major Requirements (p. 114)	51
	<b>Total Credits</b>	<b>120</b>

### University Core

The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 123. Students who need background preparation courses in math, English, and foreign language may need additional credits.

Code	Title	Credits
<b>General Education Requirements<sup>1</sup></b>		
<i>Competencies<sup>1</sup></i>		
	English Parts A & B <sup>2</sup>	
	Math Parts A & B <sup>2</sup>	
	Foreign Language <sup>2</sup>	
<i>Distribution Requirements<sup>1</sup></i>		
ARTHIST 101	Ancient and Medieval Art and Architecture (counts as Humanities GER)	3
ARTHIST 102	Renaissance to Modern Art and Architecture (counts as Humanities GER)	3
	Social Science	6
	Natural Science (1 course with lab)	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	General Electives outside PSOA	9
<i>Art &amp; Design History</i>		
ART 509	Art & Design Seminar.	3
	Select one of the following:	3
	ART 124 Design Survey	
	ART 152 Photography Survey	

Advanced Art History Course <sup>3</sup>		
Select 3 areas in PSOA outside Art & Design <sup>4</sup>		9
<i>Art in PSOA</i>		
ART 309	Issues in Contemporary Art:	3
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 29).

<sup>2</sup> Credit may be utilized in required curriculum areas.

<sup>3</sup> Any Art History course above ARTHIST 102

<sup>4</sup> In 3 different Art areas: Dance, Film, Music, Theatre

### First Year Program

Code	Title	Credits
2.5 cumulative GPA required:		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
<b>Total Credits</b>		<b>15</b>

### Degree Requirements

Code	Title	Credits
<b>BA Capstone</b>		
ART 501	Studio Research, Practice, and Portfolio	3
ART 505	BA Project	3
ART 604	Professional Practices	3
<b>Total Credits</b>		<b>9</b>

### Major Requirements

Students in the Community Arts track are required to complete the 15-credit Cultures and Communities certificate program (p. 980). Those credits can be counted as part of the University Core or as BA Directed Electives as desired in consultation with advising.

Code	Title	Credits
<b>Introductory Studios</b>		
Select 9 credits of the following:		9
ART 201	Drawing II	
ART 212	Creative Technologies	
ART 218	Moving Images and Sound in Art & Design	
ART 221	Introduction to Design	
ART 223	Introduction to Typography	
ART 231	Introduction to Fibers	
ART 243	Introduction to Painting	
ART 253	Introduction to Photography	
ART 261	Introduction to Sculpture	
ART 271	Introduction to Jewelry and Metalsmithing	
ART 277	Design for Digital Fabrication	

ART 278	Introduction to Industrial Craft	
ART 281	Introduction to Ceramics	
ART 291	Introduction to Printmaking & Book Arts (subtitle)	
ART ED 227	Introduction to Art Education	

**Community Arts Core**

ART 306	Introduction to Community Art <sup>1</sup>	3
ART 406	Community Arts II	3
ART 309	Issues in Contemporary Art: or ART 509 Art & Design Seminar.	3

**Studio Focus**

Students must select 2 studio courses (6 credits) at the 300-level or above. Be aware of prerequisites, and choose Introductory Studios with prerequisite requirements in mind.

**Directed Electives**

Select 27 credits from Peck School of the Arts or the University <sup>2</sup> 27

**Total Credits** 51

<sup>1</sup> Course number 150 Multicultural America (any discipline) is a prerequisite to ART 306, and can be taken as a Directed Elective or as a University Core class in the fall semester of the sophomore year.

<sup>2</sup> Choose courses from Peck School of the Arts or the University. At least 15 credits must be at the 200 level or above. BA Community Arts students are required to complete the Cultures and Communities Certificate (<https://catalog.uwm.edu/letters-science/cultures-communities-undergraduate-certificate/>) (15 credits total). Courses in Directed Electives should be chosen to count towards this certificate. Students should select their Cultures and Communities Certificate courses to include some classes above the 100-level. Some Art and Design courses in Community Arts program will also count towards the certificate.

**Sophomore Proficiency Review (between 30-60 earned credits)**

All sophomores are required to participate in the Sophomore Scholarship Competition. The review is designed to serve as an advisement opportunity to provide students direction as to how they might proceed through the program. Upon completing the review, students will plan their coursework within their studio pathway.

**Plan of Study**

**Recommended Four-Year Sequence in Community Arts**

Year 1		Credits
<b>Fall</b>		
(Includes OWC-A and QL-A Requirements) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
Directed Elective <sup>2</sup>		3
University Core <sup>1</sup>		3

University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Year 2**

Fall		
Students are reminded that all First Year Program courses must be completed in the first 45 credits (usually in Fall semester of sophomore year).		
200-level studio in Art		3
200-level studio in Art		3
ARTHIST 101	Ancient and Medieval Art and Architecture <sup>3</sup>	3
150 Multicultural America (any discipline) <sup>2</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Spring**

Sophomore Proficiency Review: All sophomores are required to participate in the Sophomore Scholarship Competition. Students will be assigned a minimum of two faculty members to meet with to review their submitted artwork. The review is designed to give students critical feedback over their artwork and to serve as an advisement opportunity to provide students direction as to how they might proceed through the program. Upon completing the review, students may declare their focus.		
200-level Studio in Art		3
ART 306	Introduction to Community Art <sup>4</sup>	3
ARTHIST 102	Renaissance to Modern Art and Architecture <sup>3</sup>	3
Directed Elective <sup>2</sup>		3
ART 309	Issues in Contemporary Art:	3
<b>Credits</b>		<b>15</b>

**Year 3**

Fall		
300-level and above Studio Concentration		
ART 406	Community Arts II <sup>4</sup>	3
Art & Design History Choice:		
ART 124	Design Survey	3
ART 152	Photography Survey	3
or any Art History above ARTHIST 102		
Directed Elective <sup>2</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Spring**

300-level and above Studio Concentration		
ART 309	Issues in Contemporary Art: or ART 509 or Art & Design Seminar.	3
Directed Elective <sup>2</sup>		3
Directed Elective <sup>2</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Year 4**

Fall		
ART 501	Studio Research, Practice, and Portfolio	3
ART 509	Art & Design Seminar.	3
Directed Elective <sup>2</sup>		3
Directed Elective <sup>2</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 505	BA Project	3
ART 604	Professional Practices	3
Directed Elective <sup>2</sup>		3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts

Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

<sup>2</sup> The 30 credits Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate advisor, followed by faculty in the areas of interest. Courses required to satisfy the Cultures and Communities Certificate (p. 980) can be part of the Directed Electives or University Core. 150 Multicultural America is a prerequisite for ART 306, and is recommended as a Directed Elective.

<sup>3</sup> Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

<sup>4</sup> ART 306 and ART 406 are stacked courses - one must be taken in a Spring semester and the other in a Fall semester in order to avoid repeated assignments.

## Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

## Scholarships

Declared majors in Art & Design should fill out the general scholarship application and department application (if applicable) by logging in to the Panther Scholarship Portal.

In addition, incoming undergraduate students should visit the Peck School of the Arts scholarship page for details on portfolio submissions.

## Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below).
2. Oral and Written Communications Competency Part A (OWC-A).
3. Quantitative Literacy Competency Part A (QL-A).
4. A cumulative GPA of 2.5 or higher.
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

Code	Title	Credits
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
<b>Total Credits</b>		<b>15</b>

## Appeal Process

An appeal process is established for students who do not meet the department's criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Art, BA: Studio Arts

The Bachelor of Arts degree offers students a studio art experience to complement a broad exposure to the humanities, fine arts, social sciences, and natural sciences. Bachelor of Arts (Art) students have two course tracks to choose from: Studio Arts and Community Arts.

Students in the Studio Arts track augment their studio research with 9 credits of Academic Focus coursework in a single academic discipline as well as 21 credits of Directed Electives which can be taken as studio or academic courses. In their final two semesters, Studio Arts BA students develop and execute a self-directed BA Project which is the culmination of their studio and academic research.

The courses required and recommended for this track are listed on the "Requirements" tab. The "Plan of Study" tab suggests course sequencing across all four years so students can meet the degree requirements.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Credit Overview

Code	Title	Credits
	University Core (p. 117)	45
	First Year Program (p. 117)	15
	BA Degree Requirements (p. 118)	9
	Major Requirements (p. 118)	51
	<b>Total Credits</b>	<b>120</b>

## University Core

The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 123. Students who need background preparation courses in math, English, and foreign language may need additional credits.

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies <sup>1</sup></i>		
	English Parts A & B <sup>2</sup>	
	Math Parts A & B <sup>2</sup>	
	Foreign Language <sup>2</sup>	
<i>Distribution Requirements <sup>1</sup></i>		
ARTHIST 101	Ancient and Medieval Art and Architecture (counts as Humanities GER)	3
ARTHIST 102	Renaissance to Modern Art and Architecture (counts as Humanities GER)	3
	Social Science	6
	Natural Science (1 course with lab)	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	General Electives outside PSOA	9
<i>Art &amp; Design History</i>		
ART 509	Art & Design Seminar:	3
	Select one of the following:	3
	ART 124 Design Survey	
	ART 152 Photography Survey	
	Advanced Art History Course <sup>3</sup>	
	Select 3 areas in PSOA outside Art & Design <sup>4</sup>	9
<i>Art in PSOA</i>		
ART 309	Issues in Contemporary Art:	3
	<b>Total Credits</b>	<b>45</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 29).

<sup>2</sup> Credit may be utilized in required curriculum areas.

<sup>3</sup> Any Art History course above ARTHIST 102

<sup>4</sup> In 3 different Art areas: Dance, Film, Music, Theatre

## First Year Program

Code	Title	Credits
2.5 cumulative GPA required:		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
	<b>Total Credits</b>	<b>15</b>

## Degree Requirements

Code	Title	Credits
<b>BA Capstone</b>		
ART 501	Studio Research, Practice, and Portfolio	3
ART 505	BA Project	3
ART 604	Professional Practices	3
<b>Total Credits</b>		<b>9</b>

## Major Requirements

Code	Title	Credits
<b>Introductory Studios</b>		
Select 9 credits of the following:		9
ART 201	Drawing II	
ART 212	Creative Technologies	
ART 218	Moving Images and Sound in Art & Design	
ART 221	Introduction to Design	
ART 223	Introduction to Typography	
ART 231	Introduction to Fibers	
ART 243	Introduction to Painting	
ART 253	Introduction to Photography	
ART 261	Introduction to Sculpture	
ART 271	Introduction to Jewelry and Metalsmithing	
ART 277	Design for Digital Fabrication	
ART 278	Introduction to Industrial Craft	
ART 281	Introduction to Ceramics	
ART 291	Introduction to Printmaking & Book Arts	
<b>Studio Focus</b>		
Select 12 credits from ART 300+ approved studio courses chosen in consultation with advisor <sup>1</sup>		12
<b>Academic Focus</b>		
Select 9 credits within same department outside of Art & Design <sup>2</sup>		9
<b>Directed Electives</b>		
Select 21 credits from Peck School of the Arts or the University <sup>3</sup>		21
<b>Total Credits</b>		<b>51</b>

<sup>1</sup> Students with an interest in a specific studio discipline are encouraged to discuss curricular pathways with their academic advisor.

<sup>2</sup> Students must choose three academic courses (9 credits) within the same department outside of Art & Design to serve as their academic focus. This academic focus is intended to help inform their BA Project research. BA students are encouraged to consider completing a relevant Minor or Certificate program using Academic Focus and Directed Elective credits.

<sup>3</sup> Choose courses from Peck School of the Arts or the University. At least 12 credits must be at the 200 level or above. BA students are encouraged to consider completing a relevant Minor or Certificate program using Academic Focus and Directed Elective credits.

### Sophomore Proficiency Review (between 30-60 earned credits)

All sophomores are required to participate in the Sophomore Scholarship Competition. The review is designed to serve as an advisement opportunity to provide students direction as to how they might proceed

through the program. Upon completing the review, students will plan their coursework within their studio pathway.

## Plan of Study

### Recommended Four-Year Sequence in BA in Studio Arts

Year 1		Credits
<b>Fall</b>		
(Includes OWC-A and QL-A Requirements.) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108 or ART 109	2D Studio: Concept, Color and Composition or 3D Studio: Form, Idea and Technique	3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 109 or ART 108	3D Studio: Form, Idea and Technique or 2D Studio: Concept, Color and Composition	3
ART 118	Digital Arts: Culture, Theory, Practice	3
Directed Elective <sup>2</sup>		3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Fall</b>		
Students are reminded that all First Year Program courses must be completed in the first 45 credits (usually in Fall semester of sophomore year).		
200-level studio in Art		3
200-level studio in Art		3
ARTHIST 101	Ancient and Medieval Art and Architecture <sup>3</sup>	3
Select one of the following:		3
ART 309	Issues in Contemporary Art: (Art & Design Lecture Series)	
Directed Elective <sup>2</sup>		
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
Sophomore Proficiency Review: All sophomores are required to participate in the Sophomore Scholarship Competition. Students will be assigned a minimum of two faculty members to meet with to review their submitted artwork. The review is designed to give students critical feedback over their artwork and to serve as an advisement opportunity to provide students direction as to how they might proceed through the program. Upon completing the review, students may declare their focus.		
200-level studio in Art		3
300-level and above Studio Concentration		3
ARTHIST 102	Renaissance to Modern Art and Architecture <sup>3</sup>	3
Select one of the following:		3
ART 309	Issues in Contemporary Art: (Art & Design Lecture Series)	
Directed Elective <sup>2</sup>		
Academic Focus outside Art & Design <sup>4</sup>		3
<b>Credits</b>		<b>15</b>
<b>Year 3</b>		
<b>Fall</b>		
300-level and above Studio Concentration		3
Academic Focus outside Art & Design <sup>4</sup>		3
Directed Elective <sup>2</sup>		3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 509	Art & Design Seminar: (subtitle)	3

Art & Design History choice:	3
ART 124 Design Survey	
ART 152 Photography Survey	
or any Art History course above ARTHIST 102	
Academic Focus outside of Art & Design <sup>4</sup>	3
Directed Elective <sup>2</sup>	3
University Core <sup>1</sup>	3
<b>Credits</b>	<b>15</b>

**Year 4**

**Fall**

Students will choose a 300-level and above Studio Concentration course in their final year that supports their BA Project.

300-level and above Studio Concentration	3
ART 501 Studio Research, Practice, and Portfolio	3
Choose one of the following:	3
ART 604 Professional Practices	
Directed Elective	
Directed Elective <sup>2</sup>	3
University Core <sup>1</sup>	3
<b>Credits</b>	<b>15</b>

**Spring**

300-level and above Studio Concentration	3
ART 505 BA Project	3
Choose one of the following:	3
ART 604 Professional Practices	
Directed Elective <sup>2</sup>	
Directed Elective <sup>2</sup>	3
University Core <sup>1</sup>	3
<b>Credits</b>	<b>15</b>
<b>Total Credits</b>	<b>120</b>

<sup>1</sup> Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

<sup>2</sup> The 21 credits Directed Electives can be courses in Art & Design and/or other disciplines to be chosen in conjunction with Art & Design Undergraduate advisor, followed by faculty in the areas of interest; 12 of these credits must be at the 200-level or above.

<sup>3</sup> Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

<sup>4</sup> Students must choose three academic courses (9 credits) within the same department outside of Art & Design to serve as their academic focus. This academic focus is intended to help inform their BA Project research. BA students are encouraged to consider completing a relevant Minor or Certificate program using Academic Focus and Directed Elective credits.

## Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

## Scholarships

Declared majors in Art & Design should fill out the general scholarship application and department application (if applicable) by logging in to the Panther Scholarship Portal.

In addition, incoming undergraduate students should visit the Peck School of the Arts scholarship page for details on portfolio submissions.

## Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below).
2. Oral and Written Communications Competency Part A (OWC-A).
3. Quantitative Literacy Competency Part A (QL-A).
4. A cumulative GPA of 2.5 or higher.
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

Code	Title	Credits
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
<b>Total Credits</b>		<b>15</b>

## Appeal Process

An appeal process is established for students who do not meet the department's criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

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For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Art, MA: Design Entrepreneurship and Innovation

**The Art & Design department is currently not accepting applications to the Art MA: Design Entrepreneurship and Innovation program.**

The Master of Arts in Art: Specialization in Design Entrepreneurship + Innovation is a 30-credit program wherein students will merge design thinking, innovation, theory and contemporary design practice to develop

design solutions that affect positive social, economic and technological change.

The Department of Art and Design offers graduate programs of study in art and design. The Master of Arts in Art is a 30-credit program with two areas of specialization: Studio Art and Design Entrepreneurship + Innovation.

Full-time students normally complete the MA degree within 4 semesters.

The Department's facilities and services include fully equipped studios housed in the Kenilworth Square East building and the main campus Art Building.

The Peck School of the Arts' Kenilworth Square East (KSE) Gallery provides a year-round schedule of exhibitions, with galleries that are housed in the Kenilworth Square East building, a research facility approximately one mile from campus. The Department of Art and Design offers a schedule of workshops and special lectures each year. In addition, graduate student studios are located in the Kenilworth Square East building.

Frederick R. Layton Fellowships are awarded each year to incoming and continuing graduate students. Information and application forms are in the Panthera Application (<https://graduateschool-apply.uwm.edu/>).

A limited number of Teaching Assistantships and Project Assistantships are offered through the Department of Art and Design. Information and application forms are in the Panthera Application (<https://graduateschool-apply.uwm.edu/>).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major or minor in art or design, or related field, or a body of work that demonstrates professional or research interest in design thinking and/or making.
2. Submission of a digital portfolio with 20 images of original work or other examples of design making, design thinking or design research.
3. Submission of a brief description of each work sample included in the digital portfolio.
4. Submission of a written personal statement of the proposed program of study.
5. Three (3) letters of recommendation.

See the department's website for more details, including required file formats and submission process for application materials.

Applicants may be admitted to the program with specific program-defined course deficiencies. The student is expected to satisfy deficiency requirements within three enrolled semesters. The Office of Graduate



Studies in the Department of Art and Design monitors the deficiencies. Deficiency course credits may not be applied towards the degree.

## Credits and Courses

Minimum degree requirement is 30 graduate credits. At least 18 credits must be taken in Art and Design and at least 6 credits must be taken in Complementary Studies outside of Art and Design. Consult the Department of Art and Design Office of Graduate Studies for a list of approved courses in Complementary Studies.

All graduate students in the Department of Art and Design must be enrolled full-time for at least one semester, earning a minimum of 8 credits during that semester. Graduate students with a PA or TA appointment are considered full-time earning a minimum of 6 credits per semester.

## Additional Requirements

### Advising

Upon admission, the Director of Graduate Studies in the Department of Art and Design in consultation with the Graduate Faculty will assign the incoming graduate student to a First Year Advisory Team. The head Advisor will contact the student and the Advisory Team at the beginning of the student's first semester to arrange a schedule for meetings to discuss course enrollment and the first year studio research agenda.

By the end of the student's second semester in the program, the student must select a Major Professor, and in consultation with the Major Professor, assemble his or her Graduate Thesis Committee. The committee consists of three or more members (usually not larger than four). At least three members must be graduate faculty, and at least two must be from the Department of Art & Design. At least one member of the committee must be a faculty member in the student's area of focus. If a student desires, the fourth member of the committee may be from outside the university. The student's Major Professor will serve as the Chair of the student's Graduate Thesis Committee.

A student who wishes to change his/her designated MA specialization must first apply and be accepted into the specialization. The student would make this decision in consultation with his or her Thesis Committee and the Director of Graduate Studies. If the student is accepted into the specialization, he or she will assemble a new Thesis Committee and select a new Major Professor, if necessary.

If the student's major professor takes a leave of absence or leaves the University, the student should contact the Director of Graduate Studies in the Department of Art and Design for advice in selecting a new major professor, and notify the Director of subsequent changes to the student's committee.

### Transfer of Credits

Upon admission, an applicant may be permitted to transfer a maximum of 12 graduate credits earned at another institution. However, the student must apply to the Graduate School for an evaluation of such credits to determine if they are acceptable for transfer to the MA program.

### Graduate Review

Each year, the student must participate in at least one Graduate Review.

### MA Thesis

Upon recommendation of the Graduate Thesis Committee, the student will complete a MA Thesis project and presentation of the work executed during the student's graduate studies. The MA Thesis may be a gallery exhibition, public performance, pitch session, or another form appropriate

to the student's research, and must be approved by the student's Major Professor.

### Comprehensive Examination

The student must pass a final oral and written examination.

### Time Limit

The UWM Graduate School requires that students complete all degree requirements within five years of initial enrollment.

## Art, MA: Studio Art

The Department of Art and Design offers two graduate programs of study in art and design. The Master of Arts in Art is a 30-credit program with two areas of specialization: Studio Art and Design Entrepreneurship + Innovation.

Full-time students normally complete the MA degree within 4 semesters.

The Department's facilities and services include fully equipped studios housed in the Kenilworth Square East building and the main campus Art Building.

The Peck School of the Arts' Kenilworth Square East (KSE) Gallery provides a year-round schedule of exhibitions, with galleries that are housed in the Kenilworth Square East building, a research facility approximately one mile from campus. The Department of Art and Design offers a schedule of workshops and special lectures each year. In addition, graduate student studios are located in the Kenilworth Square East building.

Frederick R. Layton Fellowships are awarded each year to incoming and continuing graduate students. Information and application forms are in the Panthera Application (<https://graduateschool-apply.uwm.edu/>).

A limited number of Teaching Assistantships and Project Assistantships are offered through the Department of Art and Design. Information and application forms are in the Panthera Application (<https://graduateschool-apply.uwm.edu/>).

## Requirements

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in art, or related field, including at least 40 studio credits and at least 45 academic credits outside the major.
2. Submission of a digital portfolio with 20 images of original work.
3. Submission of a written personal statement of the proposed program of study.
4. Three (3) letters of recommendation.

See the department's website for more details, including required file formats and submission process for application materials.

Applicants may be admitted to the program with specific program-defined course deficiencies. The student is expected to satisfy deficiency requirements within three enrolled semesters. The Office of Graduate Studies in the Department of Art and Design monitors the deficiencies. Deficiency course credits may not be applied towards the degree.

## Credits and Courses

Minimum degree requirement is 30 graduate credits.

Code	Title	Credits
<b>Art Design</b>		
ART 901	Seminar in Art-Philosophy and Concepts	3
Select 3 additional graduate credits in art seminars		3
Select 18 graduate credits in studio arts		18
<b>Art History</b>		
Select 3 graduate credits in art history		3
<b>Electives</b>		
Select 3 credits in graduate-level coursework in a discipline related to the student's research interests		3
<b>Total Credits</b>		<b>30</b>

All graduate students in the Department of Art and Design must be enrolled full-time for at least one semester, earning a minimum of 8 credits during that semester. Graduate students with a PA or TA appointment are considered full-time earning a minimum of 6 credits per semester.

## Additional Requirements

### Advising

Upon admission, the Director of Graduate Studies in the Department of Art & Design, in consultation with the Graduate Faculty, will assign the incoming graduate student to a First Year Advisory Team. The head Advisor will contact the student and the Advisory Team at the beginning of the student's first semester to arrange a schedule for meetings to discuss course enrollment and the first year studio research agenda.

By the end of the student's second semester in the program, the student must select a Major Professor, and in consultation with the Major Professor, assemble his or her Graduate Thesis Committee. The committee consists of three or more members (usually not larger than four). At least three members must be graduate faculty, and at least two must be from the Department of Art & Design. At least one member of the committee must be a faculty member in the student's area of focus. If a student desires, the fourth member of the committee may be from outside the university. The student's Major Professor will serve as the Chair of the student's Graduate Thesis Committee.

A student who wishes to change his/her designated area of focus must first apply and be accepted into the new focus. The student would make this decision in consultation with his or her Thesis Committee and the Director of Graduate Studies. If the student is accepted into the new area of focus, he or she will assemble a new Thesis Committee and select a new Major Professor, if necessary.

If the student's major professor takes a leave of absence or leaves the University, the student should contact the Director of Graduate Studies

in the Department of Art and Design for advice in selecting a new major professor, and notify the Director of subsequent changes to the student's committee.

### Transfer of Credits

Upon admission, an applicant may be permitted to transfer a maximum of 12 graduate credits earned at another institution. However, the student must apply to the Graduate School for an evaluation of such credits to determine if they are acceptable for transfer to the MA program.

### Graduate Review

Each year, the student must participate in at least one Graduate Review.

### Thesis Exhibition

Upon recommendation of the Graduate Thesis Committee, the student presents a thesis exhibition or presentation of work centering on the student's area of focus and executed during graduate studies.

### Comprehensive Examination

The student must pass a final oral and written examination.

### Time Limit

The UWM Graduate School requires that students complete all degree requirements within five years of initial enrollment.

## Art, MFA

The Department of Art and Design offers two graduate programs of study in art and design. The Master of Fine Arts in Art is a 60-credit program.

Full-time students normally complete the MFA degree within 6 semesters.

The Department's facilities and services include fully equipped studios housed in the Kenilworth Square East building and the main campus Art Building.

The Peck School of the Arts' Kenilworth Square East (KSE) Gallery provides a year-round schedule of exhibitions, with galleries that are housed in the Kenilworth Square East building, a research facility approximately one mile from campus. The Department of Art and Design offers a schedule of workshops and special lectures each year. In addition, graduate student studios are located in the Kenilworth Square East building.

Frederick R. Layton Fellowships are awarded each year to incoming and continuing graduate students, depending on funding. Visit the MFA website (<https://uwm.edu/arts/academics/art-mfa/>) to obtain information and application forms.

A limited number of Teaching Assistantships and Project Assistantships are offered through the Department of Art and Design. Visit the MFA website (<https://uwm.edu/arts/academics/art-mfa/>) to obtain information and application forms.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in art, or a related field, including at least 40 studio credits and at least 45 academic credits outside the major.
2. Submission of a digital portfolio with 20 images of original work.
3. Submission of a written personal statement of the proposed program of study.
4. Three (3) letters of recommendation.

See the department’s website for more details, including required file formats and submission process for application materials.

At the completion of 30 graduate credits (minimum 18 credits studio art, 3 credits Art History, 3 credits of graduate-level coursework in a discipline related to the student’s research interests, and 6 credits graduate art seminar), the MFA candidate is required to complete a mid-program review. The mid-program review consists of a written reflection on the first 30 credits of study in the program, a plan of action for the final 30 credits and MFA Thesis Exhibition, and a presentation (to the student’s Thesis Committee) of a body of work completed during the first 30 credits. After the Thesis Committee approves this mid-program review, the student may proceed to the final 30 graduate credits, MFA Thesis and oral and written qualifying examinations.

If the applicant already holds the Master of Science or Master of Arts degree, the applicant must submit graduate transcripts in addition to the digital portfolio, personal statement, and three letters of recommendation. If the MS or MA degree is approved by the UWM Graduate School and the Director of Graduate Studies in the Department of Art and Design (in consultation with the Graduate Faculty), the MFA candidate will complete 30 credits toward the MFA degree.

Applicants may be admitted to the program with specific program-defined course deficiencies.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The Office of Graduate Studies in the Department of Art and Design monitor the deficiencies. Deficiency course credits may not be applied towards the degree.

### Credits and Courses

Minimum degree requirement is 60 graduate credits for MFA candidates who do **not** hold an MA or MS degree. Sixty-credit degree candidates plan a program of studies that includes the following:

Code	Title	Credits
Select 36-42 credits in studio art		36-42
Select 3 credits in Art History		3
ART 901	Seminar in Art-Philosophy and Concepts	3
Select 6 additional credits in graduate art seminar		6
Select 6-12 credits in graduate-level coursework in a discipline related to the student’s research interests		6-12
<b>Total Credits</b>		<b>60</b>

### MFA Candidates Holding Previous MA or MS Degrees

Minimum degree requirements for MFA candidates holding a previous MA or MS degree is 30 graduate credits. 30-credit degree candidates plan a program of studies that includes the following:

Code	Title	Credits
Select 3 credits in a graduate art seminar		3
Select 18 to 24 credits in studio art		18-24
Select 3 credits in a graduate-level course in a discipline related to the student’s research interests		3
Select 0 – 6 credits in areas related to student’s research interests		0-6
<b>Total Credits</b>		<b>30</b>

All graduate students must be enrolled full-time for at least one semester, earning a minimum of 8 credits during that semester. Graduate students with a PA or TA appointment are considered full-time earning a minimum of 6 credits per semester.

### Additional Requirements

#### Advising

Upon admission, the Director of Graduate Studies in the Department of Art and Design in consultation with the Graduate Faculty will assign the incoming graduate student to a First Year Advisory Team. The head Advisor will contact the student and the Advisory Team at the beginning of the student’s first semester to arrange a schedule for meetings to discuss course enrollment and the first year studio research agenda.

By the end of the student’s second semester in the program, the student must select a Major Professor, and in consultation with the Major Professor, assemble his or her Graduate Thesis Committee. The committee consists of three or more members (usually not larger than four). At least three members must be UWM graduate faculty, and at least two must be from the Department of Art & Design. At least one member of the committee must be a faculty member in the student’s area of focus. If a student desires, the fourth member of the committee may be from outside the university. The student’s Major Professor will serve as the Chair of the student’s Graduate Thesis Committee.

A student who wishes to change his/her designated area of focus must first apply and be accepted into the new focus. The student would make this decision in consultation with his or her Thesis Committee and the Director of Graduate Studies in the Department of Art and Design. If the student is accepted into the new area of focus, he or she will assemble a new Thesis Committee and select a new Major Professor, if necessary.

If the student’s Major Professor takes a leave of absence or leaves the University, the student should contact the Director of Graduate Studies in the Department of Art and Design for advice in selecting a new Major Professor, and notify the Director of subsequent changes to the student’s committee.

#### Transfer of Credits

Upon admission, an applicant may be permitted to transfer a maximum of 12 graduate credits earned at another institution. However, the student must apply to the Graduate School for an evaluation of such credits to determine if they are acceptable for transfer to the MFA program.

#### Graduate Review

MFA candidates must participate in at least one Graduate Review each academic year.

### Thesis Exhibition

Upon recommendation of the major professor the student presents a thesis exhibition of work executed since admission to the program. The exhibition is held during the semester in which the student completes the coursework for the degree.

### Comprehensive Examination

The student must pass a final oral and written examination.

### Time Limit

The UWM Graduate School requires that the student complete all degree requirements within a specific time limit. A student in the 60-credit MFA program must complete all degree requirements within seven years. A student in the 30-credit MFA program must complete all degree requirements within five years.

## Arts Integration and Learning, Undergraduate Certificate (Peck School of the Arts, Department of Art and Design)

The Certificate in Arts Integration and Learning is a 15 credit, multidisciplinary program offered jointly by the Department of Art and Design in the Peck School of the Arts and the Department of Curriculum & Instruction in the School of Education.

This program is designed to give undergraduate and post baccalaureate students an understanding of best practices in arts integration with an emphasis on project based learning through students' capstone experience. The Certificate is for students in any teacher certification program at the University of Wisconsin-Milwaukee, but especially for Early Childhood Education; Middle Childhood/Early Adolescence Education; Art, Music, Dance, or Theatre Education students who wish to complement their major with an additional concentration in Arts Integration.

The Certificate in Arts Integration and Learning is also open to all students seeking a Bachelor's degree or post baccalaureate certification from UWM and to students who previously received a Bachelor's degree with teacher certification from UWM or any other accredited college or university. Additionally, the Certificate is open to non-degree students who have a strong interest in this area. Students completing the Certificate not in conjunction with a degree must be admitted to the university as non-degree students and meet regular university admission requirements. Students completing the Certificate not in conjunction with a degree are not eligible for financial aid.

### Requirements

The Arts Integration and Learning Certificate consists of 15 credits. Students must achieve a grade point average of 2.5 or above in all courses counting towards the Certificate. Courses counting for the Certificate may not be taken on a credit/no credit basis.

Code	Title	Credits
<b>Teaching and Learning Course</b>		<b>3</b>
Choose one of the following:		
ART ED 227	Introduction to Art Education	
CURRINS 538	Literacy 3: Introduction to New Literacies	

CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	
CURRINS 651	Literature for the Young Child	
<b>Electives</b>		<b>9</b>
ART 150	Multicultural America	
ART 306	Introduction to Community Art	
ART 402	Art and Design Workshop:	
ART ED 130	Multicultural Art and Visual Learning in Elementary Education	
ART ED 228	Learning Processes in Art Education	
CURRINS 400	Field Work in Curriculum and Instruction:	
CURRINS 547	Curricular Applications of the Internet	
CURRINS 579	Current Topics in Curriculum and Instruction:	
DANCE 219	Arts in Community Service	
DANCE 233	Improvisation for Dancemaking	
DANCE 420	Creating Dance in the Community	
DANCE 460	Teaching Dance in Community Settings	
FILM 150	Multicultural America	
MUS ED 260	Making Music Connections with Children	
THEATRE 111	Theatre Games	
THEATRE 204	Theatre and Social Change	
THEATRE 260	Storytelling:	
THEATRE 320		
THEATRE 448	How to be a Teaching Artist	
<b>Capstone Course</b>		<b>3</b>
ART ED 489	Art Education Workshop:	
or CURRINS 500	Workshop in Curriculum and Instruction:	
<b>Total Credits</b>		<b>15</b>

### Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (closed on university holidays)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Community Arts, Undergraduate Certificate

The Certificate in Community Arts is open to all students seeking a Bachelor's degree from UWM, to students who previously received a Bachelor's degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree

(non-degree students), but who have a strong interest in this subject area. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements (p. 15). Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

The certificate is designed to give students an opportunity to explore art in community settings. It is geared towards those interested in social engagement, environmental issues, community building, public art, and placemaking. Most certificate courses highlight art practices that integrate collaborative processes and social cooperation. Certificate students will also benefit from a minimum of three service-learning experiences. They will be prepared to work as artists in grassroots organizations, community institutions, non-profit arts organizations, and educational institutions.

Interested students should contact the program coordinator as soon as they decide to pursue the Community Arts Certificate. The coordinator's function is to help the student design a program of study from among the available courses and to guide the student in completing that program in sequence.

## Requirements

Students enrolling in the Community Arts Certificate Program are required to earn a minimum of 18 credits. The required credits are organized to be taken sequentially, and range from 200-level courses to 400-level courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.5 or above in all courses counting toward the certificate.

Code	Title	Credits
<b>Core</b>		
Select one of the following:		3
ART 101	Drawing I	
ART 108	2D Studio: Concept, Color and Composition	
ART 109	3D Studio: Form, Idea and Technique	
ART 118	Digital Arts: Culture, Theory, Practice	
ART ED 130	Multicultural Art and Visual Learning in Elementary Education	
XXX 150	Multicultural America <sup>1</sup>	3
ART 306	Introduction to Community Art	3
ART 309	Issues in Contemporary Art: (Visiting Artist Lecture Series)	3
ART 406	Community Arts II	3
Select one of the following:		3
ART 309	Issues in Contemporary Art: (subtitle) <sup>2</sup>	
ART 509	Art & Design Seminar: (subtitle) <sup>2</sup>	
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> ART 150 recommended.

<sup>2</sup> Art & Design majors who complete the Certificate in Community Arts must take 9 credits Critical Thinking: ART 309, ART 509 and 3 additional credits in either ART 309 or ART 509. This is because the 3 credits of ART 509 required as part of the BA and BFA degrees do not count towards the Certificate.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to approval by the Certificate Program Committee.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Design and Visual Communication, BFA

The Bachelor of Fine Arts Degree in Design and Visual Communication offers students autonomy and agency in the face of an ever-changing cultural landscape. The study of graphic design, design methodologies, modes of production, and design histories, provides our students with the skillsets required to actively participate in visual culture, commerce, and communication.

Deeply rooted in community and focused on experimentation and collaboration, our dynamic DVC curriculum meets each student where they're at to foster self-expression, empathy, visual literacy, strategy, and a critical approach to the creation and production of wide array of design artifacts and touch points.

The DVC program places a high degree of value on diverse, equitable, and inclusive viewpoints and approaches. Our emphasis on personal growth and an entrepreneurial mindset prepares students to make meaningful contributions to the field, challenge the status quo, and carve their own path forward.

The aDream Lab, a digital fabrication and design laboratory, offers students access to develop their work with professional-grade 3D printers, vinyl cutter, laser cutter, vacuum former, heat press, wide-format color printer, die-cutting printer, DSLR cameras, photo sweep, lighting kit, fabrication tools, and rapid prototyping supplies. All design students are expected to have their own personal computer.

Additional studio and curricular resources with the Department of Art and Design support interdisciplinary projects. This includes facilities for digital fabrication and design, motion capture, VR and AR as well as the wide range of studio disciplines within the department. In addition, students draw on the extraordinary resources of UW-Milwaukee's courses, centers, films, lectures, and galleries, and especially the extensive research and special book collections of the Golda Meir Library and the American Geographical Society Library, one of the premier collections of its kind in North America, containing over 1.5 million items supporting instruction, research, and outreach at the University of Wisconsin-Milwaukee and around the world.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Credit Overview

Code	Title	Credits
	University Core (p. 126)	45
	First Year Program (p. 126)	15
	Art & Design Core (p. 126)	15
	Degree Requirements (p. 126)	48
	<b>Total Credits</b>	<b>123</b>

## University Core

Code	Title	Credits
<b>General Education Requirements</b> <sup>1</sup>		
<i>Competencies</i> <sup>1</sup>		
English Parts A & B <sup>2</sup>		
Math Parts A & B <sup>2</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements</i> <sup>1</sup>		
ARTHIST 101	Ancient and Medieval Art and Architecture (counts as Humanities GER)	3
ARTHIST 102	Renaissance to Modern Art and Architecture (counts as Humanities GER)	3
	Social Science	6
	Natural Science (1 course with lab)	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	General Electives outside PSOA	12
<i>Art &amp; Design History</i>		
ART 124	Design Survey	3
<i>Art in PSOA</i>		
ART 309	Issues in Contemporary Art:	3
	Select 3 areas in PSOA outside Art & Design <sup>3</sup>	9
	<b>Total Credits</b>	<b>45</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 30).

<sup>2</sup> Credit may be utilized in required curriculum areas.

<sup>3</sup> In 3 different Art areas: Dance, Film, Music, Theatre.

## First Year Program

Code	Title	Credits
2.5 cumulative GPA required:		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
	<b>Total Credits</b>	<b>15</b>

## Art & Design Core

Code	Title	Credits
<b>200-level Studio Requirements</b>		
ART 221	Introduction to Design	3
ART 223	Introduction to Typography	3
<b>200-level Studio Electives</b>		
Choose 3 credits from the following:		
ART 218	Moving Images and Sound in Art & Design	3
ART 253	Introduction to Photography	
ART 277	Design for Digital Fabrication	
Choose 3 credits not already taken from the following:		
ART 201	Drawing II	
ART 212	Creative Technologies	
ART 218	Moving Images and Sound in Art & Design	
ART 243	Introduction to Painting	
ART 253	Introduction to Photography	
ART 261	Introduction to Sculpture	
ART 271	Introduction to Jewelry and Metalsmithing	
ART 277	Design for Digital Fabrication	
ART 278	Introduction to Industrial Craft	
ART 291	Introduction to Printmaking & Book Arts	
<b>Critical Thinking</b>		
ART 509	Art & Design Seminar: (OWC-B)	3
	<b>Total Credits</b>	<b>15</b>

## Design and Visual Communication Major Requirements

Code	Title	Credits
<b>Required Core Sequence</b>		
ART 321	Design and Visual Communication I	3
ART 323	Typography II	3
ART 421	Design and Visual Communication II	3
ART 422	Design Methodologies: Process, Communication & Theory (QL-B)	3
<b>Required Interaction Design Course</b>		
ART 324	Web Design	3
<b>Interaction Design Electives</b>		

Chose 3 credits from the following: 3

ART 325	Web Design II	
ART 424	Topics in Web, Interaction and Screen Design:	

**Required Professional Practice**

Chose 3 credits from the following: 3

ART 408	Nonprofit Information Technology	
ART 524	Professional Practice in Design:	
ART 608	Art and Design Internship	

**Design and Visual Communication Electives**

Chose 12 credits not already taken: 12

ART 325	Web Design II	
ART 329	Package Design	
ART 378	Industrial Processes and Fabrication	
ART 405	Product Realization	
ART 408	Nonprofit Information Technology	
ART 423	Experimental Typography	
ART 424	Topics in Web, Interaction and Screen Design:	
ART 426	Motion Graphics	
ART 427	Advanced Design Workshop:	
ART 478	Digital Fabrication and Craft	
ART 524	Professional Practice in Design:	
ART 526	Research in Universal Design and Fabrication	
ART 578	Research in Digital Fabrication and Craft:	
ART 608	Art and Design Internship	
ART 391	Intermediate Printmaking & Book Arts: (Book Arts & Letterpress or Screenprinting)	
ART 350	Intermediate Color Photography and Digital Imaging	
or ART 313	Creative Coding	
or ART 327	Digital Media Workshop:	
or ART 357	Intermediate Studio Lighting	
or ART 458	Photographic Materials and Processes	

**Capstone Course**

ART 529	Design & Visual Communication III: Capstone & Exhibition	3
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**Art and Design Electives**

Chose 12 credits. DVC students should consider taking any courses listed above not already taken, or courses in other studio media that augment their research interests, as part of the Art & Design Elective credits. 12

**Total Credits 48**

**Design and Visual Communication Portfolio Review**

All DVC-intended students are required to participate in the annual Portfolio Review after completing ART 124 Design Survey, ART 221 Introduction to Design and ART 223 Introduction to Typography. DVC-intended students must apply to the annual Portfolio Review, which is held at the end of every Spring semester. Students who pass the portfolio review are admitted to the Design and Visual Communication BFA program, and subsequently enroll in ART 321 Design and Visual

Communication I for the following Fall semester. Students enrolled in ART 221 and ART 223 are provided the guidelines, timeline and rubric for the Portfolio Review.

**Plan of Study**

**Recommended Four-Year Sequence for Design & Visual Communication BFA**

Year 1		Credits
<b>Fall</b>		
(Includes OWC-A and QL-A Requirements.) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
200-level studio in Art		3
ARTHIST 101	Ancient and Medieval Art and Architecture <sup>2</sup>	3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Fall</b>		
ART 221	Introduction to Design	3
200-level studio in Art		3
Art & Design Elective <sup>3</sup>		3
ART 124	Design Survey	3
ART 309	Issues in Contemporary Art: (Art & Design Lecture Series)	3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
All DVC-intended students are required to participate in the annual Portfolio Review after completing ART 124 Design Survey, ART 221 Introduction to Design and ART 223 Introduction to Typography. DVC-intended students must apply to the annual Portfolio Review, which is held at the end of every Spring semester. Students who pass the portfolio review are admitted to the Design and Visual Communication BFA program, and subsequently enroll in ART 321 Design and Visual Communication I for the following Fall semester. Students enrolled in ART 221 and ART 223 are provided the guidelines, timeline and rubric for the Portfolio Review.		
ART 223	Introduction to Typography	3
ARTHIST 102	Renaissance to Modern Art and Architecture <sup>2</sup>	3
Choose one of the following:		3
DVC Elective <sup>4</sup>		
ART 324	Web Design	
Art & Design Elective <sup>3</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Year 3</b>		
<b>Fall</b>		
ART 321	Design and Visual Communication I	3
Choose one of the following:		3
DVC Elective <sup>4</sup>		
ART 324	Web Design	
Art & Design Elective <sup>3</sup>		3
ART 509	Art & Design Seminar:	3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>18</b>

Spring		
ART 323	Typography II	3
DVC Elective <sup>4</sup>		3
Choose one of the following:		3
DVC Elective <sup>4</sup>		
Professional Practice course <sup>5</sup>		
ART 424	Topics in Web, Interaction and Screen Design:	
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
Year 4		
Fall		
ART 421	Design and Visual Communication II	3
ART 422	Design Methodologies: Process, Communication & Theory	3
Choose one of the following:		3
DVC Elective <sup>4</sup>		
Professional Practice course <sup>5</sup>		
ART 424	Topics in Web, Interaction and Screen Design:	
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
Spring		
ART 529	Design & Visual Communication III: Capstone & Exhibition	3
Choose one of the following:		3
DVC Elective <sup>4</sup>		
Professional Practice course <sup>5</sup>		
ART 424	Topics in Web, Interaction and Screen Design:	
DVC Elective <sup>4</sup>		3
Art & Design Elective <sup>3</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>123</b>

<sup>1</sup> Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

<sup>2</sup> Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

<sup>3</sup> Any Art & Design course not already taken except ART 100 and ART 107.

<sup>4</sup> DVC Electives (choose 12 credits not already taken): ART 325, ART 329, ART 378, ART 405, ART 408, ART 423, ART 424, ART 426, ART 427, ART 478, ART 524, ART 526, ART 528, ART 608 (option to choose one course maximum - ART 391: Book Arts & Letterpress or ART 391: Screenprinting), (option to choose one course maximum - ART 313, ART 327, ART 350, ART 357, ART 458).

<sup>5</sup> Professional Practice course selections include ART 408, ART 524, or ART 608.

## Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

## Scholarships

Declared majors in Art & Design should fill out the general scholarship application and department application (if applicable) by logging in to the Panther Scholarship Portal.

In addition, incoming undergraduate students should visit the Peck School of the Arts scholarship page for details on portfolio submissions.

## Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below).
2. Oral and Written Communications Competency Part A (OWC-A).
3. Quantitative Literacy Competency Part A (QL-A).
4. A cumulative GPA of 2.5 or higher.
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

Code	Title	Credits
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
<b>Total Credits</b>		<b>15</b>

## Appeal Process

An appeal process is established for students who do not meet the department's criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.



Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Digital Fabrication and Design, Undergraduate Certificate

The Certificate in Digital Fabrication and Design is open to all students seeking a bachelor's degree from UWM, to students who previously received a Bachelor's degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students), but who have a strong interest in this subject area. To be admitted to the University as non-degree students, individuals must meet regular university admission requirements (p. 15).

Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

This certificate is designed to give students an understanding of the software environments, materials, and equipment used in 2D and 3D digital fabrication excluding architectural scale. The certificate is for students in any major at the University of Wisconsin-Milwaukee, but specifically for Art & Design students who wish to complement their major with an additional concentration in Digital Fabrication.

## Requirements

Students enrolling in the Digital Fabrication and Design Certificate Program are required to earn a minimum of 18 credits. The required credits are organized to be taken sequentially, and range from 200-level courses to 500-level courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.5 or above in all courses counting toward the certificate.

Code	Title	Credits
<b>Core</b>		
ART 277	Design for Digital Fabrication	3
ART 278	Introduction to Industrial Craft	3
ART 378	Industrial Processes and Fabrication	3
ART 478	Digital Fabrication and Craft	3
ART 526	Research in Universal Design and Fabrication (subtitle)	3
ART 578	Research in Digital Fabrication and Craft: (subtitle)	3
<b>Total Credits</b>		<b>18</b>

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to approval by the Certificate Program Committee.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

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For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Studio Art, BFA: Dual Discipline Focus

The Bachelor of Fine Arts in Studio Art program is a pre-professional degree focusing on studio practice and research, preparing students to become successful studio practitioners and professionals in the arts. From the First Year Program coursework through the Senior Capstone

Project, students are encouraged to explore a wide variety of studio practice. During their sophomore year, students choose between the two BFA Studio Art degree plans: Single Discipline Focus and Dual Discipline Focus.

The Dual Discipline Focus curriculum is for students who wish to develop their studio research through interdisciplinary explorations. For their primary focus, students can choose coursework in Ceramics, Creative Technologies, Digital Fabrication, Fibers, Jewelry & Metalsmithing, Painting & Drawing, Photography & Imaging, Printmaking & Book Arts, or Sculpture. For their secondary focus, students can choose coursework from Ceramics, Creative Technologies, Design, Digital Fabrication, Fibers, Jewelry & Metalsmithing, Painting & Drawing, Photography & Imaging, Printmaking & Book Arts, or Sculpture.

Students are encouraged to use electives to explore all the media offered within the Department of Art and Design (listed above) to create a well-informed conceptual, formal and technical studio practice.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Credit Overview

Code	Title	Credits
	University Core (p. 130)	45
	First Year Program (p. 130)	15
	Art & Design Core (p. 130)	12
	Degree Requirements (p. 131)	51
	<b>Total Credits</b>	<b>123</b>

## University Core

The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 123. Students who need background preparation courses in math, English, and foreign language may need additional credits.

Code	Title	Credits
	<b>General Education Requirements<sup>1</sup></b>	
	<i>Competencies<sup>1</sup></i>	
	English Parts A & B <sup>2</sup>	
	Math Parts A & B <sup>2</sup>	
	Foreign Language <sup>2</sup>	
	<i>Distribution Requirements<sup>1</sup></i>	

ARTHIST 101	Ancient and Medieval Art and Architecture (counts as Humanities GER)	3
ARTHIST 102	Renaissance to Modern Art and Architecture (counts as Humanities GER)	3
	Social Science	6
	Natural Science (1 course with lab)	6
	Cultural Diversity <sup>2</sup>	
	<b>Electives</b>	
	General Electives outside PSOA	9
	<i>Art &amp; Design History</i>	
ART 509	Art & Design Seminar.	3
	Select one of the following:	3
ART 124	Design Survey	
ART 152	Photography Survey	
	Advanced Art History Course <sup>3</sup>	
	Select 3 areas in PSOA outside Art & Design <sup>4</sup>	9
	<i>Art in PSOA</i>	
ART 309	Issues in Contemporary Art:	3
	<b>Total Credits</b>	<b>45</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 29).

<sup>2</sup> Credit may be utilized in required curriculum areas.

<sup>3</sup> Any Art History course above ARTHIST 102

<sup>4</sup> In 3 different Art areas: Dance, Film, Music, Theatre

## First Year Program

Code	Title	Credits
2.5 cumulative GPA required:		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
	<b>Total Credits</b>	<b>15</b>

## Art & Design Core

Code	Title	Credits
<b>200 Level Studio Electives<sup>1</sup></b>		
Select 12 credits of the following:		12
ART 201	Drawing II <sup>2</sup>	
ART 212	Creative Technologies <sup>4</sup>	
ART 218	Moving Images and Sound in Art & Design <sup>4</sup>	
ART 221	Introduction to Design <sup>2,4</sup>	
ART 223	Introduction to Typography <sup>2,4</sup>	
ART 231	Introduction to Fibers <sup>3</sup>	
ART 243	Introduction to Painting <sup>2</sup>	
ART 253	Introduction to Photography <sup>2,4</sup>	
ART 261	Introduction to Sculpture <sup>3</sup>	

ART 271	Introduction to Jewelry and Metalsmithing <sup>3</sup>
ART 277	Design for Digital Fabrication <sup>2, 3, 4</sup>
ART 278	Introduction to Industrial Craft <sup>2, 3, 4</sup>
ART 281	Introduction to Ceramics <sup>3</sup>
ART 291	Introduction to Printmaking & Book Arts <sup>2, 4</sup>
<b>Total Credits</b>	<b>12</b>

- <sup>1</sup> Complete 12 credits total, with 3 credits in a 2D-focused course, 3 credits in a 3D-focused course, and 3 credits in a Digitally-focused course.
- <sup>2</sup> Counts as 2D-focused course.
- <sup>3</sup> Counts as 3D-focused course.
- <sup>4</sup> Counts as Digital-focused class.

## Degree Requirements

### Studio Concentration: Choose Option 1 or Option 2

#### Option 1: Single Discipline Focus<sup>1</sup>

Code	Title	Credits
<b>Primary Focus</b>		<b>18</b>
Minimum of 18 credits taken at the 300+ level in Art and Design from one of the listed disciplines. (See the studio discipline list for Single Discipline media options.) <sup>2</sup>		
<b>Art and Design Electives</b>		<b>24</b>
Any course offered in Art and Design at the 200+ level. A minimum of 12 credits must be taken at the 300+ level.		
<b>Total Credits</b>		<b>42</b>

- <sup>1</sup> Note: If a listed discipline does not offer enough courses to fulfill the 18 credit hour requirement for a single discipline focus then the student must choose Option 2.
- <sup>2</sup> The following courses may not count towards the student's Primary Focus (18 credits): ART 309, ART 501, ART 509, ART 601, and ART 604. A full list of eligible courses will be available each semester.

#### Single Discipline Focus Studio Disciplines

- Jewelry/Metalsmithing
- Painting/Drawing
- Photography/Imaging
- Printmaking/Book Arts
- Sculpture

#### Option 2: Dual-Discipline Focus

Code	Title	Credits
<b>Primary Focus</b>		<b>12</b>
Minimum of 12 credits taken at the 300+ level in Art and Design from one of the listed disciplines. (See the studio discipline list for Dual-Discipline primary focus media options.) <sup>1</sup>		
<b>Secondary Focus</b>		<b>9</b>
Minimum of 9 credits taken at the 300+ level in Art and Design from one of the listed disciplines. (See the studio discipline list for Dual-Discipline secondary focus media options.) <sup>1</sup>		
<b>Art and Design Electives</b>		<b>21</b>

Any course offered in Art and Design at the 200+ level. A minimum of 12 credits must be taken at the 300+ level.	
<b>Total Credits</b>	<b>42</b>

- <sup>1</sup> The following courses may not count towards the student's Primary or Secondary Foci in the Dual Focus option (18 credits): ART 309, ART 501, ART 509, ART 601, and ART 604. A full list of eligible courses will be available each semester.

#### Dual Discipline Focus (Primary) Studio Disciplines

- Ceramics
- Creative Technologies
- Digital Fabrication
- Fibers
- Jewelry/Metalsmithing
- Painting/Drawing
- Photography/Imaging
- Printmaking/Book Arts
- Sculpture

#### Dual Discipline Focus (Secondary) Studio Disciplines

- Ceramics
- Creative Technologies
- Design
- Digital Fabrication
- Fibers
- Jewelry/Metalsmithing
- Painting/Drawing
- Photography/Imaging
- Printmaking/Book Arts
- Sculpture

### Senior Capstone

Code	Title	Credits
ART 501	Studio Research, Practice, and Portfolio	3
ART 601	BFA Project and Exhibition	3
ART 604	Professional Practices	3
<b>Total Credits</b>		<b>9</b>

#### Sophomore Proficiency Review (between 30-60 earned credits)

All sophomores are required to participate in the Sophomore Scholarship Competition. The review is designed to serve as an advisement opportunity to provide students direction as to how they might proceed through the program. Upon completing the review, students will plan their coursework within their studio pathway.

## Plan of Study

### Recommended Four-Year Sequence for Single and Dual Focus BFA in Studio Art

Year 1		Credits
<b>Fall</b>		
(Includes OWC-A and QL-A Requirements.) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3

ART 108 or ART 109	2D Studio: Concept, Color and Composition or 3D Studio: Form, Idea and Technique	3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Spring**

ART 109 or ART 108	3D Studio: Form, Idea and Technique or 2D Studio: Concept, Color and Composition	3
ART 118	Digital Arts: Culture, Theory, Practice	3
200-level studio in Art <sup>2</sup>		3
ARTHIST 101	Ancient and Medieval Art and Architecture	3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Year 2****Fall**

Students are reminded that all First Year Program courses must be completed in the first 45 credits (usually in Fall semester of sophomore year).

200-level studio in Art <sup>2</sup>		3
200-level studio in Art <sup>2</sup>		3
Art & Design Elective		3
ART 309	Issues in Contemporary Art: (Art & Design Lecture Series)	3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Spring**

Sophomore Proficiency Review: All sophomores are required to participate in the Sophomore Scholarship Competition. Students will be assigned a minimum of two faculty members to meet with to review their submitted artwork. The review is designed to give students critical feedback over their artwork and to serve as an advisement opportunity to provide students direction as to how they might proceed through the program. Upon completing the review, students may declare their focus.

300-level and above Studio Focus <sup>3</sup>		3
200-level studio in Art <sup>2</sup>		3
ARTHIST 102	Renaissance to Modern Art and Architecture <sup>4</sup>	3
Art & Design Elective		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Year 3****Fall**

300-level and above Studio Focus <sup>3</sup>		3
300-level and above Studio Focus <sup>3</sup>		3
Art & Design Elective		3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Spring**

300-level and above Studio Focus <sup>3</sup>		3
ART 509	Art & Design Seminar	3
Art & Design History choice:		3
ART 124	Design Survey	
ART 152	Photography Survey	
or any Art History course above ARTHIST 102		
Art & Design Elective		3
Art & Design Elective		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>18</b>

**Year 4****Fall**

Students are encouraged to choose a 300-level and above Studio Focus course for their final semester that will support their Capstone.

300-level and above Studio Focus <sup>3</sup>		3
ART 501	Studio Research, Practice, and Portfolio	3
Select one of following based on your degree:		3
Art & Design Elective (Single Focus BFA)		

**300-level and above Studio Focus (Dual Focus BFA)**

Select one of the following:		3
ART 604	Professional Practices	
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>

**Spring**

Students are encouraged to choose a 300-level and above Studio Focus course for their final semester that will support their Capstone.

300-level and above Studio Focus <sup>3</sup>		3
ART 601	BFA Project and Exhibition	3
Art & Design Elective		3
Art & Design Elective		3
Select one of the following:		3
ART 604	Professional Practices	
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>123</b>

- <sup>1</sup> Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
- <sup>2</sup> Four 200-level Art Studio Electives are required; one 2D-focused, one 3D-focused, one Digital-focused, and the last from another 2D, 3D, or Digital area.
- <sup>3</sup> Students in the Single Focus BFA must choose 18 credits of 300-level Art Studio courses in their focus area. Students in the Dual Focus BFA must choose 12 credits of 300-level Art Studio courses in their Primary Focus area and 9 credits of 300-level Art Studios in their Secondary Focus area.
- <sup>4</sup> Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

## Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

## Scholarships

Declared majors in Art & Design should fill out the general scholarship application and department application (if applicable) by logging in to the Panther Scholarship Portal.

In addition, incoming undergraduate students should visit the Peck School of the Arts scholarship page for details on portfolio submissions.

## Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below).
2. Oral and Written Communications Competency Part A (OWC-A).
3. Quantitative Literacy Competency Part A (QL-A).

- A cumulative GPA of 2.5 or higher.
- Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
- Students should complete the above to advance to major within the first 45 credits.

Code	Title	Credits
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
<b>Total Credits</b>		<b>15</b>

## Appeal Process

An appeal process is established for students who do not meet the department's criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

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GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

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## Commencement Honors

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## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Studio Art, BFA: Single Discipline Focus

The Bachelor of Fine Arts in Studio Art program is a pre-professional degree focusing on studio practice and research, preparing students to become successful studio practitioners and professionals in the arts. From the First Year Program coursework through the Senior Capstone Project, students are encouraged to explore a wide variety of studio practice. During their sophomore year, students choose between the two BFA Studio Art degree plans: Single Discipline Focus and Dual Discipline Focus.

The Single Discipline Focus curriculum is for students who wish to develop their studio research in one studio discipline. Single Discipline students can choose from the following studio media for their focus: Jewelry & Metalsmithing, Painting & Drawing, Photography & Imaging, Printmaking & Book Arts, or Sculpture.

Students are encouraged to use electives to explore all the media offered within the Department of Art and Design to create a well-informed conceptual, formal and technical studio practice. Disciplinary areas for electives include Ceramics, Creative Technologies, Design, Digital Fabrication, Fibers, Jewelry & Metalsmithing, Painting & Drawing, Photography & Imaging, Printmaking & Book Arts, and Sculpture.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

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- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Credit Overview

Code	Title	Credits
	University Core (p. 134)	45
	First Year Program (p. 134)	15
	Art & Design Core (p. 134)	12
	Degree Requirements (p. 135)	51
	<b>Total Credits</b>	<b>123</b>

### University Core

The minimum number of credits required to complete the Bachelor of Arts is 120; the minimum number of credits required to complete the Bachelor of Fine Arts is 123. Students who need background preparation courses in math, English, and foreign language may need additional credits.

Code	Title	Credits
<b>General Education Requirements<sup>1</sup></b>		
<i>Competencies<sup>1</sup></i>		
	English Parts A & B <sup>2</sup>	
	Math Parts A & B <sup>2</sup>	
	Foreign Language <sup>2</sup>	
<i>Distribution Requirements<sup>1</sup></i>		
ARTHIST 101	Ancient and Medieval Art and Architecture (counts as Humanities GER)	3
ARTHIST 102	Renaissance to Modern Art and Architecture (counts as Humanities GER)	3
	Social Science	6
	Natural Science (1 course with lab)	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	General Electives outside PSOA	9
<i>Art &amp; Design History</i>		
ART 509	Art & Design Seminar.	3
Select one of the following: 3		
ART 124	Design Survey	
ART 152	Photography Survey	

Advanced Art History Course<sup>3</sup>

Select 3 areas in PSOA outside Art & Design <sup>4</sup>		9
<i>Art in PSOA</i>		
ART 309	Issues in Contemporary Art:	3
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 29).

<sup>2</sup> Credit may be utilized in required curriculum areas.

<sup>3</sup> Any Art History course above ARTHIST 102

<sup>4</sup> In 3 different Art areas: Dance, Film, Music, Theatre

### First Year Program

Code	Title	Credits
2.5 cumulative GPA required:		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3
ART 118	Digital Arts: Culture, Theory, Practice	3
<b>Total Credits</b>		<b>15</b>

### Art & Design Core

Code	Title	Credits
<b>200 Level Studio Electives<sup>1</sup></b>		
Select 12 credits of the following:		12
ART 201	Drawing II <sup>2</sup>	
ART 212	Creative Technologies <sup>4</sup>	
ART 218	Moving Images and Sound in Art & Design <sup>4</sup>	
ART 221	Introduction to Design <sup>2,4</sup>	
ART 223	Introduction to Typography <sup>2,4</sup>	
ART 231	Introduction to Fibers <sup>3</sup>	
ART 243	Introduction to Painting <sup>2</sup>	
ART 253	Introduction to Photography <sup>2,4</sup>	
ART 261	Introduction to Sculpture <sup>3</sup>	
ART 271	Introduction to Jewelry and Metalsmithing <sup>3</sup>	
ART 277	Design for Digital Fabrication <sup>2,3,4</sup>	
ART 278	Introduction to Industrial Craft <sup>2,3,4</sup>	
ART 281	Introduction to Ceramics <sup>3</sup>	
ART 291	Introduction to Printmaking & Book Arts <sup>2,4</sup>	
<b>Total Credits</b>		<b>12</b>

<sup>1</sup> Complete 12 credits total, with 3 credits in a 2D-focused course, 3 credits in a 3D-focused course, and 3 credits in a Digitally-focused course.

<sup>2</sup> Counts as 2D-focused course.

<sup>3</sup> Counts as 3D-focused course.

<sup>4</sup> Counts as Digital-focused class.

# Degree Requirements

## Studio Concentration: Choose Option 1 or Option 2

### Option 1: Single Discipline Focus <sup>1</sup>

Code	Title	Credits
<b>Primary Focus</b>		<b>18</b>
Minimum of 18 credits taken at the 300+ level in Art and Design from one of the listed disciplines. (See the studio discipline list for Single Discipline media options.) <sup>2</sup>		
<b>Art and Design Electives</b>		<b>24</b>
Any course offered in Art and Design at the 200+ level. A minimum of 12 credits must be taken at the 300+ level.		
<b>Total Credits</b>		<b>42</b>

<sup>1</sup> Note: If a listed discipline does not offer enough courses to fulfill the 18 credit hour requirement for a single discipline focus then the student must choose Option 2.

<sup>2</sup> The following courses may not count towards the student's Primary Focus (18 credits): ART 309, ART 501, ART 509, ART 601, and ART 604. A full list of eligible courses will be available each semester.

### Single Discipline Focus Studio Disciplines

- Jewelry/Metalsmithing
- Painting/Drawing
- Photography/Imaging
- Printmaking/Book Arts
- Sculpture

### Option 2: Dual-Discipline Focus

Code	Title	Credits
<b>Primary Focus</b>		<b>12</b>
Minimum of 12 credits taken at the 300+ level in Art and Design from one of the listed disciplines. (See the studio discipline list for Dual-Discipline primary focus media options.) <sup>1</sup>		
<b>Secondary Focus</b>		<b>9</b>
Minimum of 9 credits taken at the 300+ level in Art and Design from one of the listed disciplines. (See the studio discipline list for Dual-Discipline secondary focus media options.) <sup>1</sup>		
<b>Art and Design Electives</b>		<b>21</b>
Any course offered in Art and Design at the 200+ level. A minimum of 12 credits must be taken at the 300+ level.		
<b>Total Credits</b>		<b>42</b>

<sup>1</sup> The following courses may not count towards the student's Primary or Secondary Foci in the Dual Focus option (18 credits): ART 309, ART 501, ART 509, ART 601, and ART 604. A full list of eligible courses will be available each semester.

### Dual Discipline Focus (Primary) Studio Disciplines

- Ceramics
- Creative Technologies
- Digital Fabrication
- Fibers
- Jewelry/Metalsmithing
- Painting/Drawing
- Photography/Imaging

- Printmaking/Book Arts
- Sculpture

### Dual Discipline Focus (Secondary) Studio Disciplines

- Ceramics
- Creative Technologies
- Design
- Digital Fabrication
- Fibers
- Jewelry/Metalsmithing
- Painting/Drawing
- Photography/Imaging
- Printmaking/Book Arts
- Sculpture

## Senior Capstone

Code	Title	Credits
ART 501	Studio Research, Practice, and Portfolio	3
ART 601	BFA Project and Exhibition	3
ART 604	Professional Practices	3
<b>Total Credits</b>		<b>9</b>

### Sophomore Proficiency Review (between 30-60 earned credits)

All sophomores are required to participate in the Sophomore Scholarship Competition. The review is designed to serve as an advisement opportunity to provide students direction as to how they might proceed through the program. Upon completing the review, students will plan their coursework within their studio pathway.

## Plan of Study

### Recommended Four-Year Sequence for Single and Dual Focus BFA in Studio Art

Year 1		Credits
<b>Fall</b>		
(Includes OWC-A and QL-A Requirements.) Students must be aware of the prerequisites for the 200-level course they wish to take in the second semester of the First Year and enroll in the appropriate First Year Program courses in fall.		
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108 or ART 109	2D Studio: Concept, Color and Composition or 3D Studio: Form, Idea and Technique	3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
ART 109 or ART 108	3D Studio: Form, Idea and Technique or 2D Studio: Concept, Color and Composition	3
ART 118	Digital Arts: Culture, Theory, Practice	3
200-level studio in Art <sup>2</sup>		3
ARTHIST 101	Ancient and Medieval Art and Architecture	3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Fall</b>		
Students are reminded that all First Year Program courses must be completed in the first 45 credits (usually in Fall semester of sophomore year).		
200-level studio in Art <sup>2</sup>		3
200-level studio in Art <sup>2</sup>		3
Art & Design Elective		3

ART 309	Issues in Contemporary Art: (Art & Design Lecture Series)	3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
Sophomore Proficiency Review: All sophomores are required to participate in the Sophomore Scholarship Competition. Students will be assigned a minimum of two faculty members to meet with to review their submitted artwork. The review is designed to give students critical feedback over their artwork and to serve as an advisement opportunity to provide students direction as to how they might proceed through the program. Upon completing the review, students may declare their focus.		
300-level and above Studio Focus <sup>3</sup>		3
200-level studio in Art <sup>2</sup>		3
ARTHIST 102	Renaissance to Modern Art and Architecture <sup>4</sup>	3
Art & Design Elective		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Year 3</b>		
<b>Fall</b>		
300-level and above Studio Focus <sup>3</sup>		3
300-level and above Studio Focus <sup>3</sup>		3
Art & Design Elective		3
University Core <sup>1</sup>		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
300-level and above Studio Focus <sup>3</sup>		3
ART 509	Art & Design Seminar:	3
Art & Design History choice:		3
ART 124	Design Survey	
ART 152	Photography Survey	
or any Art History course above ARTHIST 102		
Art & Design Elective		3
Art & Design Elective		3
University Core <sup>1</sup>		3
<b>Credits</b>		<b>18</b>
<b>Year 4</b>		
<b>Fall</b>		
Students are encouraged to choose a 300-level and above Studio Focus course for their final semester that will support their Capstone.		
300-level and above Studio Focus <sup>3</sup>		3
ART 501	Studio Research, Practice, and Portfolio	3
Select one of following based on your degree:		3
Art & Design Elective (Single Focus BFA)		
300-level and above Studio Focus (Dual Focus BFA)		
Select one of the following:		3
ART 604	Professional Practices	
University Core <sup>1</sup>		
University Core <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
Students are encouraged to choose a 300-level and above Studio Focus course for their final semester that will support their Capstone.		
300-level and above Studio Focus <sup>3</sup>		3
ART 601	BFA Project and Exhibition	3
Art & Design Elective		3
Art & Design Elective		3
Select one of the following:		3
ART 604	Professional Practices	
University Core <sup>1</sup>		
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>123</b>

<sup>1</sup> Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the Core Curriculum. PSOA Arts Distribution Requirement is part of the 45-credit Core: 9 credits outside of Art & Design, in 3 of the 4 other departments in PSOA: Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

<sup>2</sup> Four 200-level Art Studio Electives are required; one 2D-focused, one 3D-focused, one Digital-focused, and the last from another 2D, 3D, or Digital area.

<sup>3</sup> Students in the Single Focus BFA must choose 18 credits of 300-level Art Studio courses in their focus area. Students in the Dual Focus BFA must choose 12 credits of 300-level Art Studio courses in their Primary Focus area and 9 credits of 300-level Art Studios in their Secondary Focus area.

<sup>4</sup> Six credits (ARTHIST 101 and ARTHIST 102) count as Humanities GER.

## Art & Design Undergraduate Admission Requirements

To be admitted in good standing, applicants (incoming freshmen and transfer students) must meet general University requirements (p. 15). After being admitted to UWM and indicating Art as your chosen major, no further steps are required for acceptance into the Department of Art & Design.

## Scholarships

Declared majors in Art & Design should fill out the general scholarship application and department application (if applicable) by logging in to the Panther Scholarship Portal.

In addition, incoming undergraduate students should visit the Peck School of the Arts scholarship page for details on portfolio submissions.

## Advancement to Major

Students accepted into the Art & Design program receive priority registration over non-art majors. To advance to the Art & Design major, students must complete the requirements outlined below:

1. Complete First Year Program courses (15 credits; see course list below).
2. Oral and Written Communications Competency Part A (OWC-A).
3. Quantitative Literacy Competency Part A (QL-A).
4. A cumulative GPA of 2.5 or higher.
5. Students pursuing the Design and Visual Communication BFA have additional requirements: complete ART 124, ART 221, and ART 223 with a B- or better; and pass the Design and Visual Communication Portfolio review.
6. Students should complete the above to advance to major within the first 45 credits.

Code	Title	Credits
ART 101	Drawing I	3
ART 106	Art Survey: Creative Practice, Culture and Context	3
ART 108	2D Studio: Concept, Color and Composition	3
ART 109	3D Studio: Form, Idea and Technique	3



ART 118	Digital Arts: Culture, Theory, Practice	3
<b>Total Credits</b>		<b>15</b>

## Appeal Process

An appeal process is established for students who do not meet the department's criteria for classification, GPA, and area of concentration enrollment management requirements. The appeal process will provide an opportunity for individual students to request advancement to the art major or enrollment into courses as exceptions to the department's enrollment policies based on defined, pre-determined conditions. All appeals are to be directed to the Undergraduate Advisor or PSOA advisor, who will forward the appeals to the department chair or appropriate appeals committee. The department chair or appeals committee will consult with the First Year Program Director, area head, faculty, advisors, and student if necessary before making a decision.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Dance

The Department of Dance offers two undergraduate degree programs that lead to a bachelor's degree in dance: the **Bachelor of Fine Arts in Dance** (Performance and Choreography/Contemporary), the **Bachelor of Arts (BA) in Dance**. Also available is a **minor in Somatics** and a **minor in Dance Performance**. Finally, the Department of Dance also offers a **Master in Fine Arts (MFA) in Dance**.

## Dance Program Mission Statement and Program Descriptions

The Department of Dance at UWM is committed to the development and training of skillful and vibrant dance artists and educators in their pursuit of a comprehensive education built upon diverse dance practices, research, and community engagement. Our department supports a thriving local and regional presence, while it opens avenues and opportunities for national and global perspectives. We offer undergraduate and graduate programs that emphasize artistic individuality and the development of the professional skills required for successful careers in dance performance, choreography, and education. Our innovative curriculum integrates multiple dance disciplines and somatic practices, creating a learning environment that prioritizes a balance of body and mind knowledge with informed, creative expression.

Our training environment consists of full-time faculty, lecturers, and guest artists who reflect strong beliefs in multiple points of view, a passionate commitment to individual development, and dedication to serving the versatile interests of our students. Renowned guest artists contribute to the dance department's curriculum each semester by providing students direct experience with current and diverse global practices in the field. These programs ensure that we offer our students directed, relevant training as the foundation for successful and sustainable careers in dance and related fields.

The creative research of both the faculty and students reflects our commitment to investigate the historical and cultural relevance of contemporary and traditional world dance forms. These pursuits ensure that we examine and support the vibrancy of cultural traditions while generating new knowledge. Intertwining creativity, scholarship, and interdisciplinary dialogue, our program is dedicated to the exploration and

development of somatic inquiry, technology integration, critical thought, and original choreography.

## Programs

- Dance Performance, Minor (p. 138)
- Dance, BA (p. 139)
- Dance, BFA (p. 142)
- Dance, MFA (p. 145)
- Pilates, Undergraduate Certificate (p. 146)
- Somatics, Minor (p. 147)

## Scholarships

The Dance Department distributes around \$15-20,000 in scholarships and awards (<https://uwm.edu/arts/students/scholarships-aid/>) to undergraduate students each year, ranging from \$400-2000 per year (amount split over fall/spring semesters, summer available upon request). Students may be awarded multiple awards over their time in the Dance Program.

1. *Incoming Student Award*: no application required; award is faculty-nominated based on the student's entrance audition for admission to the program. Scholarships may not be available after the UWM priority application deadline (March 1). Award may be for one year only, or for up to four years, as long as the student continues to meet the stated requirements.

2. *Dance Undergraduate Student Scholarship*: application required, and students must have completed at least one semester of the Dance Program. Demonstrated excellence in the Dance Major is the main criteria.
3. *Ed Burgess Legacy Scholarship*: application required; award is for a student who will have junior or senior status who embodies and demonstrates the highest qualities of commitment and professional dedication to the art of dance, and has an established record of excellence in all aspects of the program. Award is for one year only, and student must have completed at least 2 semesters in the Dance Program, and be attending full-time during the award semesters.
4. *Marcia Parsons Legacy Scholarship*: application required; awarded to undergraduate and graduate students pursuing a BA, BFA, or MFA in Dance. Award is for one year only, and student must have completed at least 2 semesters in the Dance Program, and be attending full-time during the award semesters.

To be eligible for any Dance Scholarship (available to Dance majors only), students must meet the following criteria:

- Full-time enrollment (6 or more Dance credits each semester)
- Dance GPA of 3.5 or above
- Adherence to departmental curricular requirements
- Students who do not meet these criteria for all semesters of their award may forfeit all or part of their scholarship.

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Daniel Burkholder	Assistant Professor	MFA	University of Wisconsin - Milwaukee	✓	
Ferne Caulker-Bronson	Professor	BS			✓
Mair Culbreth	Assistant Professor	PhD	Ohio State University	✓	
Simone Ferro	Professor	MFA	University of Iowa		✓
Maria Gillespie	Assistant Professor	MFA	University of California, Los Angeles	✓	
Gloria Gustafson	Associate Professor	BA			✓
Andy Miller	Teaching Faculty III	DM	Indiana University	✓	
Marcia Ruth Parsons	Professor	MA	University of Illinois at Urbana-Champaign, Columbia College (Chicago)		✓
Dan Schuchart	Teaching Faculty III	MFA	University of California-Riverside	✓	
Dawn Springer	Teaching Faculty I	MFA	Hollins University	✓	
Darci Brown Wutz	Professor, Chair	MFA	Smith College		✓

## Dance Performance, Minor

The Minor in Dance Performance is designed to accommodate two different groups of students. The first group of students have years of dance training prior to entering the university and wish to continue to dance while pursuing another major at UWM. The second group of students have the desire for dance performance training, but no prior opportunity before coming to UWM.

## Admission Requirements

Students must meet general university admission requirements to be admitted to any of the undergraduate curricula as a freshman or transfer student. Prior to completing 6-8 credits of the degree specific

coursework, students must submit the dance minors and certificates application and be accepted into the program. Students must have a 2.75 overall GPA to enter the program. No more than 6-8 credits will be applied toward the degree until after a student has been admitted and a Dance Faculty Advisor has been assigned.

## Continuation Requirements

Students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department's academic requirements. Students must have a 2.75 overall GPA to continue in the program. Dance courses with a grade of C- or below will not be counted toward any departmental degree.

## Requirements

Code	Title	Credits
<b>Required Courses</b>		
DANCE 233	Improvisation for Dancemaking	3
<i>Choose 3 credits:</i>		3
DANCE 110	Bodies in Motion: Dance, Identity and Culture	
DANCE 313	History of Dance in the African Diaspora (OWC-B)	
DANCE 314	Contemporary Dance History (OWC-B)	
DANCE 315	History of the American Musical Theater (OWC-B)	
<i>Choose 1 credit:</i>		1
DANCE 490	Repertoire and Ensemble <sup>1</sup>	
DANCE 491	Repertory/Student Choreographer <sup>2</sup>	
<b>Dance Technique and Somatics Courses <sup>3</sup></b>		
<i>Choose 15 credits:</i>		15
Dance Technique Courses:		
DANCE 111	Ballet I	
DANCE 112	Contemporary Dance Practice: Ballet Tradition II	
DANCE 113	Modern Dance Technique I	
DANCE 114	Contemporary Dance Practice: Modern Tradition II	
DANCE 115	Jazz Dance I	
DANCE 116	Jazz Dance II	
DANCE 117	Tap I	
DANCE 122	African Dance & Diaspora Technique I (3cr. if CD desired)	
DANCE 211	Contemporary Dance Practice: Ballet Tradition III	
DANCE 212	Contemporary Dance Practice: Ballet Tradition IV	
DANCE 213	Contemporary Dance Practice: Modern Tradition III	
DANCE 214	Contemporary Dance Practice: Modern Tradition IV	
DANCE 217	Tap II	
DANCE 310	Jazz III	
DANCE 327	Dance for the Musical Theatre I	
DANCE 370	World Movement Traditions:	
DANCE 427	Dance for the Musical Theatre II	
DANCE 489	Workshop in Dance:	
Somatics Course List:		
DANCE 103	Introduction to Yoga	
DANCE 220	Body Sense	
DANCE 321	Alexander Technique for the Performer	
DANCE 323	Body Conditioning: Pilates Method	
DANCE 403	Intermediate Yoga For Dancers	
DANCE 421	Alexander Technique Practicum	
DANCE 623	Body Conditioning: Pilates Method II	

DANCE 624	Feldenkrais for Performers	
<b>Total Credits</b>		<b>22</b>

- <sup>1</sup> Any dancer cast in faculty or guest artist choreography must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 3 times per week during the rehearsal semester.
- <sup>2</sup> Any dancer cast in a student work must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 2 times per week during the rehearsal semester.
- <sup>3</sup> Students completing the Dance Performance minor may enroll in and complete a maximum of 2 courses from the Somatics Course List.

## Advising

**Location:** Theatre 120  
**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)  
**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

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For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Dance, BA

The Bachelor of Arts (BA) in Dance prepares students to teach participatory movement traditions in community settings, and to lead community groups in creating and performing their own dances and movement rituals. Community-based service-learning experiences provide many opportunities to realize these goals. Many Dance BA students pursue a double major at UWM; the service-learning component provides an opportunity to integrate the content of the two areas of study.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Credit Overview

Code	Title	Credits
University Core		42
Dance Technique and Somatics		26
Dance Creative and Academic		28
General Electives (May Include Dance Electives)		24
<b>Total Credits</b>		<b>120</b>

## University Core

The minimum number of credits required to complete the Bachelor of Arts or the Bachelor of Fine Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies <sup>1</sup></i>		
Oral and Written Communication – Part A and Part B <sup>2</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
Humanities		6
Natural Sciences (Must include one lab)		6
Social Sciences		6
Cultural Diversity <sup>2</sup>		
<b>Electives</b>		
Additional Electives		12
Credits in Peck School of the Arts <sup>3</sup>		9
University Credits		3
<b>Total Credits</b>		<b>42</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 29).

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> Chosen from three of the following departments in PSOA: Art & Design, Fine Arts, Theatre, or Film, Video, Animation, and New Genres.

Please note: For all Dance majors and minors, dance courses with a grade C- or below will not be counted toward any departmental degree.

## Dance Foundations Curriculum

Students in both the BFA and BA dance degree programs must complete the following Dance Foundations curriculum in their freshman year:

Code	Title	Credits
DANCE 111	Ballet I	3
DANCE 113	Modern Dance Technique I	3
DANCE 233	Improvisation for Dancemaking	3
<b>Total Credits</b>		<b>9</b>

## Major Requirements

Code	Title	Credits
<b>Dance Technique and Somatics</b>		
DANCE 103	Introduction to Yoga	2
DANCE 111	Ballet I	3

DANCE 113	Modern Dance Technique I	3
DANCE 220	Body Sense	3
DANCE 122	African Dance & Diaspora Technique I <sup>4</sup>	2-3
Select three of the following:		9
DANCE 112	Contemporary Dance Practice: Ballet Tradition II	
DANCE 211	Contemporary Dance Practice: Ballet Tradition III	
DANCE 212	Contemporary Dance Practice: Ballet Tradition IV <sup>5</sup>	
DANCE 114	Contemporary Dance Practice: Modern Tradition II	
DANCE 213	Contemporary Dance Practice: Modern Tradition III	
DANCE 214	Contemporary Dance Practice: Modern Tradition IV <sup>5</sup>	

Select two of the following:		4
DANCE 115	Jazz Dance I	
DANCE 117	Tap I	
DANCE 370	World Movement Traditions: (approved Sub-topic)	

<b>Dance Creative and Academic</b>		
DANCE 110	Bodies in Motion: Dance, Identity and Culture <sup>6</sup>	3
DANCE 233	Improvisation for Dancemaking	3
DANCE 251	Laban/Bartenieff Movement Analysis (QL-B)	3

Select one of the following:		3
DANCE 313	History of Dance in the African Diaspora (OWC-B)	
DANCE 314	Contemporary Dance History (OWC-B)	
DANCE 315	History of the American Musical Theater (OWC-B)	

Select one of the following:		1
DANCE 319	Dance Service-Learning	
DANCE 490	Repertoire and Ensemble <sup>7</sup>	
DANCE 352	Digital Media Portfolio for Performers	3
DANCE 412	Dance Composition I <sup>6</sup>	3
DANCE 420	Creating Dance in the Community <sup>6</sup>	3
DANCE 460	Teaching Dance in Community Settings	3
DANCE 601	Senior Project	3

<b>General Electives</b>		
Select 24 general electives (May be Taken in Dance)		
<b>Total Credits</b>		<b>78-79</b>

<sup>4</sup> 3 credits if GER-CD is desired for DANCE 122.

<sup>5</sup> Students must pass with a B minimum.

<sup>6</sup> Coursework involved in MPPR guidelines.

<sup>7</sup> Any dancer cast in faculty or guest artist choreography must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 3 times per week during the rehearsal semester.

## Recommended BA Course Electives

Code	Title	Credits
DANCE 115 & DANCE 116	Jazz Dance I and Jazz Dance II	2
DANCE 117 & DANCE 217	Tap I and Tap II	3
DANCE 209	Dance Production	2
DANCE 309	Dance Production Practicum	1
DANCE 310	Jazz III	2
Select one of the following: 3		
DANCE 313	History of Dance in the African Diaspora (OWC-B)	
DANCE 314	Contemporary Dance History (OWC-B)	
DANCE 315	History of the American Musical Theater (OWC-B)	
DANCE 319	Dance Service-Learning	1
DANCE 320	Rituals and Culture	3
Select one or all of the following: 3		
DANCE 321 & DANCE 421	Alexander Technique for the Performer and Alexander Technique Practicum	
DANCE 323 & DANCE 623	Body Conditioning: Pilates Method and Body Conditioning: Pilates Method II	
DANCE 403	Intermediate Yoga For Dancers	
DANCE 624	Feldenkrais for Performers	2
DANCE 325	Pointe and Variations	2
DANCE 327	Dance for the Musical Theatre I <sup>8</sup>	2
DANCE 427	Dance for the Musical Theatre II	2
DANCE 370	World Movement Traditions:	2
DANCE 371	Dance Anatomy & Kinesiology	3
DANCE 414	Dance Composition III	2-3
DANCE 489	Workshop in Dance: (subtitle)	2
DANCE 490 or DANCE 491	Repertoire and Ensemble <sup>9,10</sup> / Repertory/Student Choreographer	1
DANCE 491	Repertory/Student Choreographer <sup>11</sup>	1
DANCE 624	Feldenkrais for Performers	2
THEATRE 101	Acting for Non-majors	3
THEATRE 260	Storytelling: (subtitle)	3
THEATRE 275	Performing Arts Management	3

<sup>8</sup> Coursework involved in MPPR guidelines.  
<sup>9</sup> Any dancer cast in faculty or guest artist choreography must be enrolled in at least 3 UWM Department of Dance technique classes per week during the rehearsal semester.  
<sup>10</sup> Per departmental policy, any time a student is cast in a faculty or guest artist work and is enrolled for less than 18 credits, they must enroll in DANCE 490 for 1 credit during the appropriate semester.  
<sup>11</sup> Any student cast in a student work must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 2 times per week during the rehearsal semester.

## Recommended Course of Study

Year 1		Credits
<b>Fall</b>		
Includes Foundations Curriculum		
DANCE 111	Ballet I	3
DANCE 220	Body Sense	3
University Core		9
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
DANCE 110	Bodies in Motion: Dance, Identity and Culture	3
DANCE 113	Modern Dance Technique I	3
DANCE 233	Improvisation for Dancemaking	3
University Core		6
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Fall</b>		
DANCE 112 or DANCE 114	Contemporary Dance Practice: Ballet Tradition II or Contemporary Dance Practice: Modern Tradition II	3
Select one of the following: 2		
DANCE 115	Jazz Dance I	
DANCE 117	Tap I	
DANCE 370	World Movement Traditions: (approved Sub-topic)	
DANCE 122	African Dance & Diaspora Technique I	3
DANCE 412	Dance Composition I <sup>1</sup>	3
University Core		3
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
DANCE 103	Introduction to Yoga	2
DANCE 211 or DANCE 213	Contemporary Dance Practice: Ballet Tradition III or Contemporary Dance Practice: Modern Tradition III	3
Elective (May be taken in Dance)		3
PSOA Core		6
<b>Credits</b>		<b>14</b>
<b>Year 3</b>		
<b>Fall</b>		
Select one of the following: 2		
DANCE 115	Jazz Dance I	
DANCE 117	Tap I	
DANCE 370	World Movement Traditions:	
DANCE 212 or DANCE 214	Contemporary Dance Practice: Ballet Tradition IV or Contemporary Dance Practice: Modern Tradition IV	3
DANCE 251	Laban/Bartenieff Movement Analysis (QL-B)	3
Select one of the following: 3		
DANCE 314	Contemporary Dance History (OWC-B)	
DANCE 315	History of the American Musical Theater (OWC-B)	
DANCE 313	History of Dance in the African Diaspora (OWC-B)	
Dance or University Elective		3
PSOA Core		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
DANCE 352	Digital Media Portfolio for Performers	3
DANCE 319 or DANCE 490	Dance Service-Learning <sup>2,3,4</sup> or Repertoire and Ensemble	1
DANCE 420	Creating Dance in the Community	3
Dance or University Elective		3
PSOA Core		6
<b>Credits</b>		<b>16</b>
<b>Year 4</b>		
<b>Fall</b>		
DANCE 460	Teaching Dance in Community Settings	3
Dance and/or University Electives		6

PSOA Core		6
	<b>Credits</b>	<b>15</b>
<b>Spring</b>		
DANCE 601	Senior Project	3
Dance and/or University Electives		8
PSOA Core		3
	<b>Credits</b>	<b>14</b>
<b>Total Credits</b>		<b>120</b>

- <sup>1</sup> Coursework involved in MPPR guidelines.
- <sup>2</sup> Any dancer cast in faculty or guest artist choreography must be enrolled in at least 3 UWM Department of Dance technique classes per week during the rehearsal semester.
- <sup>3</sup> Per departmental policy, any time a student is cast in a faculty or guest artist work and is enrolled for less than 18 credits, they must enroll in DANCE 490 for 1 credit during the appropriate semester.
- <sup>4</sup> Any student cast in a student work must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 2 times per week during the rehearsal semester.

## Admission and Retention Requirements

### Admission Requirements

To be considered for the Dance BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition. Please visit the Peck School admissions page for more information.

### Retention Requirements

Each undergraduate dance major's coursework will be reviewed at the end of their sophomore year to determine continuance in the major, as part of the **Mid-Program Portfolio Review**. Students must maintain a minimum grade point average of 3.0 in the dance major.

All students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department's academic requirements. Each student's ability to undertake the demands of the dance program, including their overall physical ability to perform in classes, auditions, rehearsals, and/or performances, will be a factor in the following: grading at the end of each semester; the audition/rehearsal/performance process for departmental productions and outreach events; the Mid-Program Portfolio Review assessment; determining "probation" status; and potentially removing a student from the program.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

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For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Dance, BFA

The Performance and Choreography/Contemporary Track in the Bachelor of Fine Arts (BFA) in Dance prepares students to perform and create original dance choreography for theatrical productions. Dance BFA students complete a rigorous technical and creative curriculum designed to develop the student's individual artistic voice. Contemporary Track majors additionally study body/mind sciences, dance pedagogy, historical and cultural contexts for dance, and the interactive collaboration skills necessary to bring dance to the theatre with a high degree of excellence.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Credit Overview

Code	Title	Credits
	University Core	42
	Dance Technique	38
	Dance Creative	21
	Dance Academic	14
	Dance Electives	5
<b>Total Credits</b>		<b>120</b>

### University Core

The minimum number of credits required to complete the Bachelor of Arts or the Bachelor of Fine Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies <sup>1</sup></i>		
Oral and Written Communication – Part A and Part B <sup>2</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	Additional Electives	12
	Credits in Peck School of the Arts <sup>3</sup>	9
	University Credits	3
<b>Total Credits</b>		<b>42</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 29).  
<sup>2</sup> Credits may be utilized in required curriculum areas.  
<sup>3</sup> Chosen from three of the following departments in PSOA: Art & Design, Fine Arts, Theatre, or Film, Video, Animation, and New Genres.

Please note: For all Dance majors and minors, dance courses with a grade C- or below will not be counted toward any departmental degree.

### Dance Foundations Curriculum

Students in both the BFA and BA dance degree programs must complete the following Dance Foundations curriculum in their freshman year:

Code	Title	Credits
DANCE 111	Ballet I	3
DANCE 113	Modern Dance Technique I	3
DANCE 233	Improvisation for Dancemaking	3
<b>Total Credits</b>		<b>9</b>

### Major Requirements

Code	Title	Credits
<b>Dance Technique Courses</b>		
<i>Contemporary Dance Practice: Modern Tradition <sup>4</sup></i>		
Select a minimum of 5 semesters:		15
DANCE 113	Modern Dance Technique I	
DANCE 114	Contemporary Dance Practice: Modern Tradition II	
DANCE 213	Contemporary Dance Practice: Modern Tradition III	
DANCE 214	Contemporary Dance Practice: Modern Tradition IV	
DANCE 317	Contemporary Dance Practice: Modern Tradition V	
DANCE 318	Contemporary Dance Practice: Modern Tradition VI	
<i>Contemporary Dance Practice: Ballet Tradition <sup>4</sup></i>		
Select a minimum of 5 semesters:		15
DANCE 111	Ballet I	
DANCE 112	Contemporary Dance Practice: Ballet Tradition II	
DANCE 211	Contemporary Dance Practice: Ballet Tradition III	
DANCE 212	Contemporary Dance Practice: Ballet Tradition IV	
DANCE 311	Contemporary Dance Practice: Ballet Tradition V	
DANCE 312	Contemporary Dance Practice: Ballet Tradition VI	
<b>Complementary Dance Technique <sup>5,6</sup></b>		
DANCE 115	Jazz Dance I	2
or DANCE 122	African Dance & Diaspora Technique I	
Choose one:		2
DANCE 115	Jazz Dance I (if not selected above)	
DANCE 116	Jazz Dance II	
DANCE 117	Tap I	
DANCE 122	African Dance & Diaspora Technique I (if not selected above)	
DANCE 123	African Dance & Diaspora Technique II	
DANCE 217	Tap II	
DANCE 222	African Dance & Diaspora Technique III	
DANCE 325	Pointe and Variations	
DANCE 327	Dance for the Musical Theatre I	
DANCE 370	World Movement Traditions:	
DANCE 427	Dance for the Musical Theatre II	
DANCE 624	Feldenkrais for Performers	
<i>Somatic and Conditioning Practices <sup>7</sup></i>		
Choose 4 credits from the following:		4

DANCE 103	Introduction to Yoga
DANCE 220	Body Sense
DANCE 321	Alexander Technique for the Performer
DANCE 323	Body Conditioning: Pilates Method
DANCE 403	Intermediate Yoga For Dancers
DANCE 421	Alexander Technique Practicum
DANCE 623	Body Conditioning: Pilates Method II
DANCE 624	Feldenkrais for Performers

**Dance Creative Courses**

DANCE 231	Music and Dancers I	3
DANCE 233	Improvisation for Dancemaking <sup>8</sup>	3
DANCE 352	Digital Media Portfolio for Performers	3
DANCE 412	Dance Composition I <sup>8</sup>	3
DANCE 413	Dance Composition II	3
DANCE 490	Repertoire and Ensemble <sup>9,10</sup>	3
DANCE 601	Senior Project	3

**Dance Academic Courses**

DANCE 209	Dance Production <sup>8</sup>	2
DANCE 251	Laban/Bartenieff Movement Analysis	3
DANCE 314	Contemporary Dance History	3
DANCE 371	Dance Anatomy & Kinesiology	3
DANCE 460	Teaching Dance in Community Settings	3

**Dance Elective Courses** 5

Choose from the following:

DANCE 110	Bodies in Motion: Dance, Identity and Culture
DANCE 115	Jazz Dance I
DANCE 116	Jazz Dance II
DANCE 117	Tap I
DANCE 309	Dance Production Practicum
DANCE 310	Jazz III
DANCE 313	History of Dance in the African Diaspora
DANCE 315	History of the American Musical Theater
DANCE 319	Dance Service-Learning
DANCE 320	Rituals and Culture
DANCE 321	Alexander Technique for the Performer
DANCE 323	Body Conditioning: Pilates Method
DANCE 327	Dance for the Musical Theatre I
DANCE 370	World Movement Traditions:
DANCE 403	Intermediate Yoga For Dancers
DANCE 414	Dance Composition III <sup>11</sup>
DANCE 420	Creating Dance in the Community
DANCE 421	Alexander Technique Practicum
DANCE 427	Dance for the Musical Theatre II
DANCE 489	Workshop in Dance:
DANCE 490	Repertoire and Ensemble
DANCE 491	Repertory/Student Choreographer

**Total Credits** 78

<sup>4</sup> 100- and 200-level technique classes taken for 3 credits; 300-level for 2 credits

<sup>5</sup> One Jazz or African technique class is required during sophomore year. If GER-Cultural Diversity credits are desired for DANCE 122, 3-credit section is mandatory.

<sup>6</sup> Option: Students wishing to substitute one or two semester(s) of either ballet or modern (minimum 5 semesters of ballet and modern are required) for additional Complementary Dance Technique course(s) in Jazz, Africa and Diaspora Technique, Tap, Music Theatre Styles: choose from DANCE 116, DANCE 117, DANCE 123, DANCE 217, DANCE 222, DANCE 327, DANCE 427. Student must approach his/her Dance Faculty Advisor the semester prior to enrollment for substitution approval.

<sup>7</sup> Yoga, Pilates, Body Sense, Alexander Technique

<sup>8</sup> Coursework involved in MPPR guidelines.

<sup>9</sup> Any dancer cast in faculty or guest artist choreography must be enrolled in at least 3 UWM Department of Dance technique classes per week during the rehearsal semester.

<sup>10</sup> Per departmental policy, any time a student is cast in a faculty or guest artist work and is enrolled for less than 18 credits, he/she must enroll in Dance 490 for 1 credit during the appropriate semester.

<sup>11</sup> DANCE 415 may be substituted only with prior dance faculty approval.

## Recommended Course of Study

Year 1		Credits
<b>Fall</b>		
DANCE 111	Ballet I	3
DANCE 113	Modern Dance Technique I	3
DANCE 209	Dance Production	2
University Core		6
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
DANCE 112	Contemporary Dance Practice: Ballet Tradition II	3
DANCE 114	Contemporary Dance Practice: Modern Tradition II	3
DANCE 233	Improvisation for Dancemaking	3
University Core		6
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Fall</b>		
Somatic Course #1 (see list on Requirements tab)		2
DANCE 115	Jazz Dance I (3 cr. in 122 if GER-CD is desired) or African Dance & Diaspora Technique I	2
DANCE 213	Contemporary Dance Practice: Modern Tradition III	3
DANCE 412	Dance Composition I <sup>3</sup>	3
University Core		6
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
DANCE 211	Contemporary Dance Practice: Ballet Tradition III	3
DANCE 231	Music and Dancers I <sup>3</sup>	3
DANCE 371	Dance Anatomy & Kinesiology	3
DANCE 490	Repertoire and Ensemble <sup>1</sup>	1
PSOA Core		6
<b>Credits</b>		<b>16</b>
<b>Year 3</b>		
<b>Fall</b>		
DANCE 214	Contemporary Dance Practice: Modern Tradition IV	3
DANCE 251	Laban/Bartenieff Movement Analysis (QL-B)	3
DANCE 314	Contemporary Dance History	3
DANCE 413	Dance Composition II	3
DANCE 490	Repertoire and Ensemble <sup>1</sup>	1
PSOA Core		3
<b>Credits</b>		<b>16</b>



<b>Spring</b>		
DANCE 212	Contemporary Dance Practice: Ballet Tradition IV	3
DANCE 352	Digital Media Portfolio for Performers	3
Dance Elective (see list on Requirements tab)		2
PSOA Core		6
<b>Credits</b>		<b>14</b>
<b>Year 4</b>		
<b>Fall</b>		
Somatic Course #2 (see list on Requirements tab)		2
DANCE 317	Contemporary Dance Practice: Modern Tradition V	3
DANCE 460	Teaching Dance in Community Settings	3
DANCE 601	Senior Project	3
PSOA Core		6
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
Complementary Technique (see list on Requirements tab)		2
Dance Elective (see list on Requirements tab)		3
DANCE 312	Contemporary Dance Practice: Ballet Tradition VI	3
DANCE 490	Repertoire and Ensemble <sup>1</sup>	1
PSOA Core		3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Per departmental policy, any time a student is cast in a faculty or guest artist work and is enrolled for less than 18 credits, he/she must enroll in DANCE 490 for 1 credit during the appropriate semester.

<sup>2</sup> Any student cast in a student work must be enrolled in at least 1 UWM Department of Dance technique class that meets at least 2 times per week during the rehearsal semester.

<sup>3</sup> Coursework involved in MPPR guidelines.

## Admission and Retention Requirements

### Admission Requirements

To be considered for the Dance BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition. Please visit the Peck School admissions page for more information.

### Retention Requirements

Each undergraduate dance major's coursework will be reviewed at the end of their sophomore year to determine continuance in the major, as part of the **Mid-Program Portfolio Review**. Students must maintain a minimum grade point average of 3.0 in the dance major.

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## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

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## Honors in the Major

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GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Dance, MFA

The Department of Dance offers graduate study leading to the Master of Fine Arts in Dance. The program offers opportunity to hone technical skills, to explore personal intuition, imagination, and craft both in creating dance works and also in performing them, and to focus on critical areas of dance core studies.

The MFA in Dance is structured to meet the scheduling constraints of working dance professional performers, choreographers, and educators: A block of on-campus and distance learning coursework is available during the fall and spring semesters, in addition to the intensive summer graduate course offerings.

Our program consists of 60 credits with an emphasis on contemporary choreography and performance, focusing on the candidate's independent creative research. Graduate students engage in choreographic research through physical and theoretical inquiry while having the opportunity to examine their technical movement practice through current somatic perspectives. The program supports student research by providing facilities and customized opportunities to investigate and perform their work in Milwaukee. Through faculty mentorship and rigorous personal explorations, students are guided to integrate their research into a final thesis project.

Faculty teaching in the program are nationally and internationally acclaimed performing and choreographic artists in the field. Their research spans cultural perspectives, technical forms, somatic modalities, site-specific performance, improvisation, interdisciplinary collaboration, and technology and new media.

Our students are prepared to be future university dance professors, as well as secondary school educators with the means to expand their theoretical and choreographic skills, while simultaneously increasing their earning potential in academic institutions and K-12 public and private schools.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants who meet Graduate School requirements plus these program requirements may be admitted in good standing:

- Reason Statement: Content must include the following:
  - Explain the aspects of your embodied practice and what you achieve through that experience (movement tradition, teaching, somatics, writing, performance, creation). How do you see your movement practice evolving in the field of contemporary performance?
  - Articulate how you investigate and create unique choreographic work based on your movement practice(s). Include how your intellectual interests inform your choreographic inquiry.
  - Out of state students will be considered for a Non-Resident-Tuition Remission Award. To qualify, please provide a one-paragraph statement of financial need to be included in your application. Include information of your current financial situation that outlines your economic need.
- Required Work Sample: Work sample description page (no more than 3 pages total) with video URLs for 10-12 minutes of recent performance and/or choreography. This may consist of excerpted works (minimum two minutes from each work). Must include exact URL (web address) for each work (clickable links preferred, with passwords on the description page as necessary). For each work, the description should include choreographer, performers, venue, company or organization, dates, and any other applicable information (designers, etc).
- Required Curriculum Vitae or Resume (no more than 5 pages).
- Optional Press Materials: Preference is a single pdf (not individual file uploads).
- Recommendations: Two (2) recent recommendations from people who can provide information on your qualifications. The site permits the recommenders to write or upload their statements directly into the system (preferred) or the department can upload on behalf of the recommenders.

## Credits and Courses

Minimum degree requirement in Performing Arts-Dance is 60 credits distributed as follows, of which at least 6 must be in complementary studies.

Code	Title	Credits
	Dance Techniques and Somatics (Modern, African, Ballet, Alexander, Pilates, Yoga), 9-15 cr.	
	Creating, Staging, and Performing Dance Works, 16-22 cr.	
	Theory and Application of Dance, 12-18 cr.	
	Electives in Complementary Studies, 6-14 cr.	
	Final Project, 4-8 cr.	
	<b>Total Credits</b>	<b>60</b>

### Final Project

Each student must undertake a final project of either one or two semesters duration (4-8 cr.). The project must be approved by the major advisor. The project will inevitably relate to dance and movement, so that there is often a choreographic component involved, most likely a concert. These may occur in a variety of approved performance settings which may include on- or off-campus sites. Nonetheless, all projects require research and a written component, which will vary depending on the process (and number of credits), working with a thesis chair and two other committee members.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise studies as specified in Graduate School regulations; the student may not register for any courses without this advisor's prior approval. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Pilates, Undergraduate Certificate

*Effective Spring 2023, admission to the Pilates Certificate has been suspended.*

UWM Pilates Certificate prepares students to teach Beginning, Intermediate, and Advanced Pilates Mat and Equipment and develops a substantial, scientific basis for movement analysis through the rigorous study of Anatomy and Kinesiology.

*Effective Spring 2023, admission to the Pilates Certificate has been suspended.*

## Requirements

The Pilates Certificate combines the science and art of the modality. Through the application of theoretical concepts, anatomical understanding of body mechanics, as well as a deep acquaintance with the teachings of the Joseph Pilates method, students will learn teaching strategies to advance their own individual practice, and most importantly that of their future clients. Courses will consist of lectures, discussions, practice teaching and mentorship as students begin the process of teaching Pilates.

A minimum GPA of 3.0 in all coursework is required to successfully complete the certificate. Students may not count any coursework that is taken as audit or pass/fail.

Code	Title	Credits
DANCE 323	Body Conditioning: Pilates Method <sup>1</sup>	2-3
DANCE 371	Dance Anatomy & Kinesiology	3
DANCE 623	Body Conditioning: Pilates Method II <sup>1</sup>	2-3
DANCE 611	Pilates Method Observation and Practice <sup>2</sup>	1
DANCE 685	Seminar in Pilates Student Teaching	2
KIN 230	Health Aspects of Exercise and Nutrition	3
or KIN 200	Introduction to Kinesiology	
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Must be taken twice for a maximum of 4 credits.

<sup>2</sup> Must be taken twice for a maximum of 2 credits.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

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For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Somatics, Minor

Our Minor in Somatics provides an opportunity to practice and survey a wide range of somatic methodologies, including Alexander Technique, Feldenkrais, Laban Movement Analysis, Martial Arts, Pilates Method and Iyengar Yoga. Upon completion, students are prepared for further study in an array of dance/movement disciplines, including teaching and health/wellness.

Thomas Hanna first used the term ‘somatics’ in the 1970’s in the first issue of the journal Somatics. He used “soma” to refer to the wide range of body awareness and mind-body practices which had emerged in many

cultures throughout the twentieth century. The focus of somatics is on bodily experience, and on how our soma interacts with the world.

The Minor in Somatics provides coursework of special interest to Health Sciences, Nursing, and Education majors who aim to work in helping professions and facilitate movement awareness/change. Music, Acting, and Dance performance students in the Peck School of the Arts will also benefit from learning how to self-monitor physical performance, access the movement imagination, move expressively, and connect meaningfully with an audience.

## Requirements

### Admission Requirements

Students must meet general university admission requirements to be admitted to any of the undergraduate curricula as a freshman or transfer student. Prior to completing 6-8 credits of the degree specific coursework, students must submit the dance minors and certificates application and be accepted into the program. Students must have a 2.75 overall GPA to enter the program. No more than 6-8 credits will be applied toward the degree until after a student has been admitted and a Dance Faculty Advisor has been assigned.

### Continuation Requirements

Students are expected to demonstrate a strong commitment to their health and overall conditioning in order to fulfill the department’s academic requirements. Students must have a 2.75 overall GPA to continue in the program. Dance courses with a grade of C- or below will not be counted toward any departmental degree.

### Minor in Somatics Curriculum

Code	Title	Credits
<b>Dance</b>		
DANCE 103	Introduction to Yoga	2
DANCE 220	Body Sense	3
DANCE 251	Laban/Bartenieff Movement Analysis (QL-B)	3
DANCE 371	Dance Anatomy & Kinesiology (or Departmental Approved Equivalent)	3
DANCE 624	Feldenkrais for Performers	2
<b>Electives in Dance</b>		
Select 9 credits from the following:		9
DANCE 113	Modern Dance Technique I	
DANCE 233	Improvisation for Dancemaking	
DANCE 122	African Dance & Diaspora Technique I	
or DANCE 370	World Movement Traditions:	
DANCE 321	Alexander Technique for the Performer	
DANCE 323	Body Conditioning: Pilates Method	
DANCE 371	Dance Anatomy & Kinesiology (or Department Approved Equivalent)	
DANCE 489	Workshop in Dance: (Approved Somatic Sub-Topic(s) only)	
DANCE 403	Intermediate Yoga For Dancers	
DANCE 421	Alexander Technique Practicum	
DANCE 623	Body Conditioning: Pilates Method II	
<b>Total Credits</b>		<b>22</b>

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Benjamin Balcom	Assistant Professor	MFA	University of Wisconsin - Milwaukee	✓	
Joel Benjamin	Assistant Professor	MFA	DePaul University		
Richard Blau	Professor Emeritus	PhD	Yale University		✓
Portia Cobb	Associate Professor	MA	San Francisco State University	✓	
Michael Gibisser	Associate Professor	MFA	University of Illinois at Chicago	✓	
Laura Harrison	Assistant Professor	MFA	School of the Art Institute of Chicago	✓	
Kelly Kirshner	Associate Professor	PhD	University of California, Irvine	✓	
Jesse Malmed	Assistant Professor	MFA	University of Illinois at Chicago		
Marquise Mays	Assistant Professor	MA	University of Southern California		
Jesse McLean	Associate Professor, Chair	MFA	University of Illinois at Chicago	✓	
Stephen Wetzel	Associate Professor, Director of Academic Affairs	MFA	University of Wisconsin-Milwaukee	✓	

## Animation Arts, BA

The BA in Animation will prepare graduates to secure positions as animators and multimedia artists in the moving image production industry.

Graduates of this program will be able to:

1. Apply knowledge of artistic principles, conventions, methods, and practices through the creation and production of animated works of art;
2. Utilize the core concepts, capabilities, and tools of animation technology;
3. Apply critical and creative thinking skills in a variety of contexts;
4. Identify ways in which animation can be utilized in both creative and practical contexts;
5. Assure high quality production values in the work that they create; and
6. Demonstrate the ability to communicate effectively, produce projects individually and collaboratively, engage fully in the entire production process, from concept to distribution.

## Film, Video, Animation and New Genres

### Film, Video, Animation, and New Genres

With dual focus on both the theoretical and practical worlds of filmmaking, the Department of Film, Video, Animation, and New Genres provides programs for students with the flexibility to explore all aspects of the industry. Our faculty are professionals and filmmakers who actively screen at festivals and exhibition spaces from the Sundance Film Festival to the Centre Georges Pompidou in Paris.

### Programs

- Animation Arts, BA (p. 148)
- Cinematic Arts, MFA (p. 151)
- Film, BFA (p. 152)
- Film, Video, Animation and New Genres, Minor (p. 156)

The BA in Animation totals 120 credits, with 57 academic credits in the program - 45 required credits and 12 elective credits. This degree is administered through the Department of Film, Video, Animation and New Genres in the Peck School of the Arts. Applicants entering the program with an AAS degree from the Animation Department in the School of Media and Creative Arts at Milwaukee Area Technical College (MATC) may be granted admission at the third-year level.

Students in the department of Film, Video, Animation, and New Genres are required to have a laptop computer and video editing software.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Credit Overview

The BA in Animation Arts is a 120-credit degree that includes 45 credits of university requirements, 18 credits of general electives and 57 credits in Animation and Filmmaking.

Code	Title	Credits
	University Core	45
	Animation Requirements	57
	General Electives	18
<b>Total Credits</b>		<b>120</b>

### University Core

The minimum number of credits required to complete the Bachelor of Arts or the Bachelor of Fine Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies <sup>1</sup></i>		
	Oral and Written Communication – Part A and Part B <sup>2</sup>	
	Quantitative Literacy (QL) – Part A and Part B <sup>2</sup>	
	Foreign Language <sup>2</sup>	
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	Additional Electives	12
	Credits in Peck School of the Arts <sup>3</sup>	12
	University Credits	3
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 30).  
<sup>2</sup> Credits may be utilized in required curriculum areas.  
<sup>3</sup> Up to 12 credits inside the Peck School of the Arts (9 required, the remaining 3 may remain inside FVANG as an elective) in at least 3 of the 4 departments outside the student’s discipline (Art and Design, Dance, Music, and Theater).

### BA Animation Arts Requirements

Code	Title	Credits
<b>Animation Requirements</b>		
FILM 110	Foundation Topics: (Students are required to complete 2 sections for 6 credits of FILM 110.)	6
FILM 180	Foundation Production: Fiction	6
FILM 181	Foundation Production: Nonfiction	6

FILM 222	Digital Filmmaking	3
FILM 232	Animation I	3
FILM 343	The Business of Animation	3
FILM 385	Experimental Animation (Students may take FILM 347, Introduction to 3D Animation, in place of FILM 385.)	3
FILM 388	Stop Motion Animation	3
FILM 486	Advanced Animation	3
FILM 509	Senior Project I	3
FILM 510	Senior Project II	6
And one of the following:		3
FILM 327	Cartoons, Animation, and the Graphic Novel	
FILM 331	The Animated Short	
FILM 332	Miyazaki Shorts and Features	
<b>Foundation Review <sup>1</sup></b>		
<b>Animation and Film Electives <sup>2</sup></b>		<b>9</b>
<b>General Electives</b>		<b>18</b>
May be taken from any university discipline, including Animation and Filmmaking.		
<b>Total Credits</b>		<b>75</b>

<sup>1</sup> Foundation Review for admission to major includes completion of Department Foundation courses (FILM 110 @ 6cr, FILM 180, and FILM 181). Review consists of 2 final projects made in Department Foundation courses and a copy of current academic transcript submitted to department faculty for review by advertised deadline in Fall and Spring semesters. Check your emails for Foundation Review deadlines.  
<sup>2</sup> A full list of film and animation electives can be found by viewing the Film Courses in Categories PDF.

### Applicants Entering the Program with an AAS degree in Animation from Milwaukee Area Technical College (MATC)

Applicants entering the program with an AAS degree in Animation from MATC will be granted admission at the third-year level.

Code	Title	Credits
<b>University Core</b>		
<b>18</b>		
<b>Animation/Filmmaking Requirements</b>		
FILM 180	Foundation Production: Fiction	6
or FILM 181	Foundation Production: Nonfiction	
FILM 303	Current Topics in Media Arts Production	3
FILM 343	The Business of Animation	3
FILM 385	Experimental Animation (Students may take FILM 347, Introduction to 3D Animation, in place of FILM 385.)	3
FILM 388	Stop Motion Animation	3
FILM 486	Advanced Animation	3
FILM 509	Senior Project I	3
FILM 510	Senior Project II	6
<i>Film or Animation Elective</i>		3

<b>General Electives</b>	<b>6</b>
<b>Total Credits</b>	<b>57</b>

## BA Animation Recommended Film Sequence

Year 1		Credits
<b>Fall</b>		
FILM 110	Foundation Topics:	3
FILM 180	Foundation Production: Fiction	6
University Core		6
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FILM 110	Foundation Topics:	3
FILM 181	Foundation Production: Nonfiction	6
University Core		6
Foundation Review		
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Fall</b>		
FILM 222	Digital Filmmaking	3
FILM 232	Animation I	3
ARTHIST 205	History of Film I: Development of an Art (Fulfills GER: Humanities)	3
University Core		6
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FILM 388	Stop Motion Animation	3
Choose one of the following:		
FILM 327	Cartoons, Animation, and the Graphic Novel	3
FILM 331	The Animated Short	
FILM 332	Miyazaki Shorts and Features	
University Core		9
<b>Credits</b>		<b>15</b>
<b>Year 3</b>		
<b>Fall</b>		
FILM 385	Experimental Animation	3
Film or Animation Elective		3
General Electives and University Core		9
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FILM 486	Advanced Animation	3
Film or Animation Elective		3
General Electives		6
University Core		3
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Fall</b>		
Film or Animation Elective		3
FILM 509	Senior Project I	3
General Electives		6
University Core		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FILM 343	The Business of Animation	3
FILM 510	Senior Project II	6
General Elective		3
University Core		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

## Applicants Entering the Program with an AAS degree in Animation from Milwaukee Technical College (MATC)

Year 3		Credits
<b>Fall</b>		
FILM 180 or FILM 181	Foundation Production: Fiction or Foundation Production: Nonfiction	6
FILM 388	Stop Motion Animation	3
University Core		6
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FILM 303	Current Topics in Media Arts Production	3
FILM 385	Experimental Animation	3
FILM 486	Advanced Animation	3
University Core		6
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Fall</b>		
FILM 343	The Business of Animation	3
Film or Animation Elective		3
FILM 509	Senior Project I	3
University Core		3
General Elective		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
Film or Animation Elective		3
FILM 510	Senior Project II	6
University Core		6
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>60</b>

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

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For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Contact Information

Film Department Animation Program Advisor,  
Brooke Thiele

## Cinematic Arts, MFA

The Peck School of the Arts offers a Master of Fine Arts in Cinematic Arts, an interdisciplinary degree program encompassing graduate studies in film and dance. The curricula in this program include intensive professional training in an individual performance area plus significant interdisciplinary experience in related performance and scholarly fields. All curricula are dedicated to maintaining the most rigorous professional and artistic standards in their disciplines.

The programs currently offered are: film and video production in the Department of Film, Video, Animation and New Genres; and choreography and performance in the Department of Dance.

The curricula offered in the program are designed for serious and talented students who are preparing for careers as professionals in the performing arts or as artist-teachers in advanced training programs. Admission to the programs is highly selective, and all curricula include extensive practical performance experience.

The Helene Zelazo Center for the Performing Arts is the premier performance home for the Peck School of the Arts. It includes the 759-seat Helen Bader Concert Hall, a 3,200 square foot rehearsal room,

numerous small ensemble practice rooms, and the Mary L. Nohl Art Galleries.

The School's other facilities include the Fine Arts Center which houses two theaters, a recital hall, and related shop, studio, instructional and practice space, and nearby Mitchell Hall with studio, viewing, and processing facilities for the Department of Film, Video, Animation and New Genres as well as the chamber dance theatre and additional rehearsal, studio, and performance spaces for the departments of Theatre and Dance.

## Master of Fine Arts in Cinematic Arts

The Department of Film, Video, Animation and New Genres offers a graduate program in media arts practice. The curriculum is designed for serious and talented students who are preparing for careers as artists.

Facilities include a complete production studio, with all tools and services necessary for in-house film, digital video and sound work; photography and imaging labs; a digital studio for Internet projects, physical computing, interactivity and other forms of digital and media arts; and space for installation and performance projects. A special feature of the program is our excellent in-house processing facility for black-and-white reversal 16mm film.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Master of Fine Arts in Cinematic Arts

In addition to a series of graduate seminars, students can choose from an array of elective options that include graduate production studios, conceptual studies courses, complementary studies from outside the department, professional practice opportunities in the field and U/G or G electives. Students are expected to originate and produce finished projects on a regular basis, culminating in a thesis presentation.

### Admission

In order to be considered for admission to the program, an applicant must meet Graduate School requirements and submit original media-related work that demonstrates technical competence and creative promise.

An applicant whose grade point average or quality of work does not meet Graduate School and Department of Film, Video, Animation and New Genres program standards may be considered for admission on probation. Each student is expected to satisfy deficiency requirements within three enrolled semesters. The Graduate School and the Department of Film, Video, Animation and New Genres graduate program monitor the deficiencies. No course credits earned to make up deficiencies may be counted as program credits required for the degree.

### Transfer of Credits

With the approval of the Department of Film, Video, Animation and New Genres graduate program and the Graduate School, an applicant from another institution may be permitted to transfer up to 19 credits toward the total of 48 graduate credits required for the MFA degree.

## Credits and Courses

The minimum Film-MFA degree requirement is 48 graduate credits, (18 cr required, 30 cr elective). It is recommended that students earn 12 credits each semester through full-time attendance on campus.

Code	Title	Credits
<b>Required</b>		
FILM 710	Graduate Film Studio/Seminar I	3
FILM 712	Graduate Film Studio/Seminar II	3
FILM 714	Graduate Film Studio/Seminar III	3
FILM 730	Advanced Research in Film I	3
FILM 732	Advanced Research in Film II	6
<b>Electives</b>		
Select 30 credits with assistance and approval from the Director of Graduate Studies and their Graduate Advisor.		30
FILM 720	Graduate Media Arts Workshop I <sup>1</sup>	
FILM 722	Graduate Media Arts Workshop II <sup>1</sup>	
FILM 761	Landscape Cinema	
FILM 763	Experimental Documentary	
FILM 764	Observational Documentary	
FILM 781	Advanced 16MM Film Production	
FILM 782	Visual Effects	
FILM 900	Graduate Studio (maximum of 12 credits)	
Department of Film, Video, Animation and New Genres Electives (maximum of 30 credits) <sup>2</sup>		
Complementary Studies (maximum of 9 credits) <sup>3</sup>		
FILM 700	Professional Practice: Production (maximum of 9 credits)	
<b>Total Credits</b>		<b>48</b>

<sup>1</sup> A maximum of 9 credits between FILM 720 and FILM 722.

<sup>2</sup> These are U/G and G classes in film, video & new genres that are regularly offered by the department, including topics such as 16mm film and video production, screenwriting, lighting, cinematography, audio production, animation, installation, performance and physical computing.

<sup>3</sup> These are UG/G courses offered outside the department that are relevant to a student's proposed course of study. If courses inside the Department of Film, Video, Animation and New Genres are closely allied to an area of complementary study, such as Film courses in audio or photography and Music Department courses in electronic composition, they will count toward fulfillment of the Complementary Studies option. Students interested in Complementary Studies are encouraged to discuss their options with the Director of Graduate Studies and their major professor before enrolling in these courses.

## Additional Requirements

### Major Professor as Advisor

Each student chooses a major professor from the Department of Film, Video, Animation and New Genres graduate faculty to advise and supervise studies. In addition to the major professor, each student's committee must contain a minimum of two Department of Film, Video, Animation and New Genres graduate faculty members. Any student electing a minimum of nine credits in either Conceptual or

Complementary Studies must include a faculty member from that discipline on the committee as well.

### Thesis Presentation

Upon recommendation of the major professor and advisory faculty, the student presents a thesis exhibition program of work executed since admission to the program. The exhibition may be held either during the semester in which the student completes coursework for the degree or during the following semester.

### Time Limit

The student must complete all degree requirements within seven years of the initial enrollment.

### International Students

On completion of graduate studies, international students are eligible to apply for Optional Practical Training (OPT) for an additional year of practical work experience. If you are interested in OPT, please see an Immigration Coordinator at International Student and Scholar Services in the Center for International Education.

## Film, BFA

The Department of Film, Video, Animation, and New Genres in the Peck School of the Arts offers an integrated program of study leading to a BFA in Film.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Credit Overview

The Bachelor of Fine Arts degree in Film requires 120 credits, and is distributed as follows:

Code	Title	Credits
University Core		45
FVANG Requirements		72
General Elective		3
<b>Total Credits</b>		<b>120</b>

## University Core

The minimum number of credits required to complete the Bachelor of Arts or the Bachelor of Fine Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.



Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies <sup>1</sup></i>		
Oral and Written Communication – Part A and Part B <sup>2</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	Additional Electives	12
	Credits in Peck School of the Arts <sup>3</sup>	12
	University Credits	3
<b>Total Credits</b>		<b>45</b>

- <sup>1</sup> Learn more about the General Education Requirements (p. 30).
- <sup>2</sup> Credits may be utilized in required curriculum areas.
- <sup>3</sup> Up to 12 credits inside the Peck School of the Arts (9 required, the remaining 3 may remain inside FVANG as an elective) in at least 3 of the 4 departments outside the student’s discipline (Art and Design, Dance, Music, and Theater).

## Course of Study

The Film, Video, Animation, and New Genres degree program is an integrated course of study in which students create individual projects in film, video, or other media every semester. This is accomplished through an 18-credit Foundation requirement taken during the first year, followed by a series of required and elective courses in the 72-credit major.

Students in Film, Video, Animation, and New Genres are required to have a laptop computer and video editing software.

## Major Requirements

Code	Title	Credits
<b>FVANG Requirements</b>		
<i>Department Foundation</i>		
FILM 110	Foundation Topics: (Students are required to complete 2 sections for 6 credits of FILM 110)	6
FILM 180	Foundation Production: Fiction	6
FILM 181	Foundation Production: Nonfiction	6
<i>Foundation Review <sup>1</sup></i>		
FILM 222	Digital Filmmaking	3
Select one of the following: 3		
FILM 220	16mm Filmmaking	
FILM 231	Writing for Film	
FILM 232	Animation I	
FILM 255	Introduction to Digital Arts	
<i>300+ level Production Electives <sup>2</sup></i>		
Select 15 credits		15
<i>300+ level Portfolio Electives <sup>3</sup></i>		
Select 6 credits		6
<i>Contextual Electives <sup>4</sup></i>		

FILM 303	Current Topics in Media Arts Production	3
Select two additional Contextual Electives		6
<i>FVANG Electives</i>		
Select 6 credits at any level		6
<i>300+ Professional Practice/Internship <sup>5</sup></i>		
Select 3 credits		3
<i>Senior Project</i>		
FILM 509	Senior Project I	3
FILM 510	Senior Project II	6
<b>General Elective</b>		
Select 3 credits from any department(s) outside of Film		3
<b>Total Credits</b>		<b>75</b>

\* Please refer to the Film Courses in Categories PDF to understand which course topics fulfill each requirement outlined below.

- <sup>1</sup> Foundation Review for admission to major includes completion of Department Foundation courses (FILM 110 @ 6cr, FILM 180, and FILM 181). Review consists of 2 final projects made in Department Foundation courses and a copy of current academic transcript submitted to department faculty for review by advertised deadline in Fall and Spring semesters. Check your emails for Foundation Review deadlines.
- <sup>2</sup> Production Electives (15 credits required): Technology or skill focused, multiple assignments to learn skill.
- <sup>3</sup> Portfolio Electives (6 credits required): Theme-based class, focused on creation of work in relation to the specific topic.
- <sup>4</sup> Contextual Electives: Lectures including history, theory, and writing towards a variety of creative projects. Choose from: FILM 303 required, plus 6 credits from eligible Contextual Elective courses.
- <sup>5</sup> Professional Practice Electives (3 credits required): Focused on professionalization, roles and jobs in film, media & art worlds.

## Film, Video Animation, and New Genres Electives

Consult your academic advisor in the Peck School of the Arts Student Services Office for electives in the PSOA Core Curriculum and General Education Requirement courses.

Code	Title	Credits
FILM 150	Multicultural America (Satisfies UWM’s Cultural Diversity requirement)	3
FILM 203	Media Workshop: (subtitle)	3
FILM 220	16mm Filmmaking	3
FILM 222	Digital Filmmaking	3
FILM 231	Writing for Film	3
FILM 232	Animation I	3
FILM 234	Introduction to the Screenplay	3
FILM 255	Introduction to Digital Arts	3
FILM 297	Study Abroad:	1-12
FILM 301	Film Art for Non-Majors (subtitle)	3
FILM 305	Digital Cinema and the Computer (Satisfies UWM’s OWCB - Oral & Written Communication - Part B)	3
FILM 316	Filmmaker as Theorist/Practitioner: (subtitle)	3
FILM 318	Film and the Visual and Performing Arts: (subtitle)	3

FILM 319	Theory/Practice Seminar: (subtitle)	3
FILM 320	The Art of the Short Film	3
FILM 323	Film as a Modernist Art Form	3
FILM 324	Genre and the Horror Film	3
FILM 325	Indie Cinema	3
FILM 326	Philosophy and Film	3
FILM 327	Cartoons, Animation, and the Graphic Novel	3
FILM 328	Radical Cinema	3
FILM 329	Sociological Cinema	3
FILM 330	Structuring Gaps	3
FILM 332	Miyazaki Shorts and Features	3
FILM 336	Visual Effects and Illusion in Cinema	3
FILM 341	Theory/Practice Seminar: (subtitle)	3
FILM 342	Milwaukee Underground Film Festival	3
FILM 343	The Business of Animation	3
FILM 344	The Producer's Role	3
FILM 345	The Screenwriting Business	3
FILM 346	Documentary Projects: doc/UWM	3
FILM 360	Portfolio Topics:	3
FILM 361	Animation Studio	3
FILM 362	Documenting Community	3
FILM 363	Mumblecore: Fundamental Cinema	3
FILM 364	Music Video Production	3
FILM 365	Sex and Gender in Film and Video	3
FILM 366	Experimental Sound Techniques	3
FILM 367	Personal Cinema	3
FILM 368	Dreams: Yours, Mine, Ours	3
FILM 379	Storyboarding	3
FILM 380	Production Topics: (subtitle)	3
FILM 382	Visual Effects	3
FILM 385	Experimental Animation	3
FILM 386	Interactive Animation	3
FILM 388	Stop Motion Animation	3
FILM 390	Directing	3
FILM 391	Cinematography	3
FILM 392	Documentary Filmmaking	3
FILM 393	Sound Design	3
FILM 394	Film Score Studio	3
FILM 395	Preproduction	3
FILM 396	Video Installation	3
FILM 397	Drawing for Filmmakers	3
FILM 398	Editing and Post-Production	3
FILM 399	Advanced Independent Study	3
FILM 419	Advanced Theory/Practice Seminar:	3
FILM 420	Intermediate Media Arts Module: (subtitle)	3
FILM 434	Film Aesthetics: (subtitle)	3
FILM 442	Media Internship	1-3
FILM 446	Advanced Documentary Projects: doc/UWM	3
FILM 460	Advanced Portfolio Topics: (subtitle)	3
FILM 461	Landscape Cinema	3
FILM 462	Humor and Filmmaking	3
FILM 463	Experimental Documentary	3
FILM 464	Observational Documentary	3
FILM 465	Experimental Narrative	3
FILM 466	Appropriated Media	3
FILM 480	Advanced Production Topics:	3
FILM 481	Advanced 16MM Film Production	3
FILM 482	Advanced Cinematography	3
FILM 483	Post-Production Sound	3
FILM 484	Field Recording and Digital Audio	3
FILM 486	Advanced Animation	3
FILM 497	Study Abroad: (subtitle)	1-12
MUSIC 327	Studio Techniques	3
MUSIC 328	Interactive Electronic Music	3
MUSIC 420	Advanced Electronic Music and Sound Art:	3

## Plan of Study

The following outline will serve as a guide in planning for studies in Film, Video, Animation, and New Genres. Students are encouraged to consult regularly with their school and departmental advisors. All course waivers or changes in the requirements of the major should be directed to a department or school academic advisor and must have the written approval of the department chair.

<b>Year 1</b>		
<b>Fall</b>		<b>Credits</b>
FILM 110	Foundation Topics:	3
FILM 180 or FILM 181	Foundation Production: Fiction or Foundation Production: Nonfiction	6
Select two of the following:		6
ARTHIST 205	History of Film I: Development of an Art (GER-H)	
University Core <sup>1</sup>		
University Core <sup>1</sup>		
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FILM 110	Foundation Topics:	3
FILM 181 or FILM 180	Foundation Production: Nonfiction (Foundation Review) or Foundation Production: Fiction	6
University Core <sup>1</sup>		6
Submit for Foundation Review <sup>2</sup>		
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Fall</b>		
FILM 222	Digital Filmmaking	3
Select one of the following:		3
FILM 220	16mm Filmmaking	
FILM 231	Writing for Film	
FILM 232	Animation I	
FILM 255	Introduction to Digital Arts	
FVANG Elective		3
Select two of the following:		6
ARTHIST 205	History of Film I: Development of an Art (GER-H)	
University Core <sup>1</sup>		
University Core <sup>1</sup>		
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FVANG Production Elective <sup>3</sup>		6
FVANG Portfolio Elective <sup>4</sup>		3

Select two of the following:		6
FVANG Contextual Elective <sup>5</sup>		
University Core <sup>1</sup>		
University Core <sup>1</sup>		
<b>Credits</b>		<b>15</b>
<b>Year 3</b>		
<b>Fall</b>		
FILM 303	Current Topics in Media Arts Production	3
FVANG Production Elective <sup>3</sup>		3
FVANG Portfolio Elective <sup>4</sup>		3
University Core <sup>1</sup>		6
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FVANG Production Elective <sup>3</sup>		3
FVANG Contextual Elective <sup>5</sup>		3
FVANG Elective		3
University Core <sup>1</sup>		6
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Fall</b>		
FVANG Production Elective <sup>3</sup>		3
FVANG Professional Practice/Internship <sup>6</sup>		3
FILM 509	Senior Project I	3
University Core <sup>1</sup>		6
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
FILM 510	Senior Project II	6
FVANG Contextual Elective <sup>5</sup>		3
University Core <sup>1</sup>		3
General Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

\* Please refer to the Film Courses in Categories PDF to understand which course topics fulfill each requirement outlined below.

<sup>1</sup> Consult your academic advisor in the Peck School of the Arts Student Services Office for requirements in the University Core Curriculum. PSOA Arts Distribution Requirement for FVANG is part of the 45-credit Core: University competencies, 18 credits of GER requirements, 12 credits outside Peck School of the Arts, up to 12 credits inside the Peck School of the Arts (9 required, the remaining 3 may remain inside FVANG as an elective) in at least 3 PSOA departments outside the student's discipline (Art and Design, Dance, Music, and Theater), and 3 credits outside FVANG.

<sup>2</sup> Foundation Review for admission to major includes completion of Department Foundation courses (FILM 110 @ 6cr, FILM 180, FILM 181). Review consists of 2 final projects made in Department Foundation courses and a copy of current academic transcript submitted to department faculty for review by advertised deadline in Fall and Spring semesters. Check your emails for Foundation Review deadlines.

<sup>3</sup> Production Electives: Choose from FILM 234, FILM 379, FILM 380, FILM 382, FILM 385, FILM 386, FILM 390 - 398, and FILM 480 - 486.

<sup>4</sup> Portfolio Electives: Choose from FILM 360 - 368, FILM 399, and FILM 460 - 466.

<sup>5</sup> Contextual Electives: Choose from: FILM 303 required, plus 6 credits from FILM 305, FILM 319, FILM 320, FILM 323 - 332, FILM 336, and FILM 419. Refer to approved list of topics & repeat limits (FILM 305 counts as OWCB).

<sup>6</sup> Professional Practice Electives: Choose from FILM 342 - 346, FILM 442, and FILM 446.

## Advance to the Major

Students are admitted to the Film, Video, Animation, and New Genres major upon completion of:

- the UWM Oral and Written Communication (OWC) Part A requirement;
- the Quantitative Literacy (QL) Part A requirement;
- 18 credits of the department Foundation Curriculum: FILM 110 (6 credits), FILM 180 (6 credits) and FILM 181 (6 credits);
- passing Foundation Review.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold

cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Film, Video, Animation and New Genres, Minor

Our undergraduate program of study is committed to helping students develop their creative, conceptual and technical abilities through media: film, video, audio, installation, and new genres. Our goal is for you to become a creative thinker, an informed viewer and an art maker – someone whose imaginative skills are matched by an ability to learn and use the technologies to say something important.

This program is open to all students seeking to complement their major studies by developing skills in moving image/audio production, creative concept development, and media project management skills—skills that are increasingly in demand across multiple fields.

## Requirements

After completing the Foundation Requirements, students will complete the remaining six credits of 300-level courses from the elective lists below.

Code	Title	Credits
<b>Foundation Requirements</b>		
FILM 110	Foundation Topics: (students are required to complete 2 sections for 6 credits of FILM 110)	6
FILM 180 or FILM 181	Foundation Production: Fiction Foundation Production: Nonfiction	6
FILM 222	Digital Filmmaking	3
Electives		6
<b>Total Credits</b>		<b>21</b>

## Department Electives

Department electives are separated into four categories:

- **Production:** these courses build expertise with tools and technologies while continuing to develop critical thinking and creative expression.
- **Portfolio:** these courses explore topics and/or themes, develop artistry and require students to develop their individual portfolios through the creation of self-authored works.
- **Contextual:** these courses continue to develop student's critical thinking and expressive voice by exploring topics and/or themes through screenings, discussions, written assignments and creative media projects.
- **Professional Practice:** includes internship and other forms of professional practicum.

Code	Title	Credits
<b>Production Electives</b>		
FILM 220	16mm Filmmaking	3

FILM 222	Digital Filmmaking	3
FILM 231	Writing for Film	3
FILM 232	Animation I	3
FILM 234	Introduction to the Screenplay	3
FILM 379	Storyboarding	3
FILM 380	Production Topics:	3
FILM 382	Visual Effects	3
FILM 385	Experimental Animation	3
FILM 386	Interactive Animation	3
FILM 390	Directing	3
FILM 391	Cinematography	3
FILM 392	Documentary Filmmaking	3
FILM 393	Sound Design	3
FILM 394	Film Score Studio	3
FILM 395	Preproduction	3
FILM 396	Video Installation	3
FILM 398	Editing and Post-Production	3
FILM 399	Advanced Independent Study	3

Code	Title	Credits
<b>Portfolio Electives</b>		
FILM 360	Portfolio Topics:	3
FILM 361	Animation Studio	3
FILM 362	Documenting Community	3
FILM 363	Mumblecore: Fundamental Cinema	3
FILM 364	Music Video Production	3
FILM 365	Sex and Gender in Film and Video	3
FILM 366	Experimental Sound Techniques	3
FILM 367	Personal Cinema	3
FILM 368	Dreams: Yours, Mine, Ours	3

Code	Title	Credits
<b>Contextual Electives</b>		
FILM 305	Digital Cinema and the Computer	3
FILM 319	Theory/Practice Seminar:	3
FILM 320	The Art of the Short Film	3
FILM 323	Film as a Modernist Art Form	3
FILM 324	Genre and the Horror Film	3
FILM 325	Indie Cinema	3
FILM 326	Philosophy and Film	3
FILM 328	Radical Cinema	3
FILM 329	Sociological Cinema	3
FILM 330	Structuring Gaps	3
FILM 336	Visual Effects and Illusion in Cinema	3

Code	Title	Credits
<b>Professional Practice Electives</b>		
FILM 342	Milwaukee Underground Film Festival	3
FILM 343	The Business of Animation	3
FILM 344	The Producer's Role	3
FILM 345	The Screenwriting Business	3
FILM 346	Documentary Projects: doc/UWM	3
FILM 442	Media Internship	1-3

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

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## Music

The Department of Music offers undergraduate and graduate programs of study, as well as courses of study in Music Performance (Woodwinds, Brass, Percussion, Strings, Piano, Voice, and Guitar), Music Education, Music History and Literature, and Music Composition and Technology.

We offer a graduate program of study in music, preparing the student for a career in a performing area, music education, music history and literature, conducting, or theory and composition. The Master of Music program permits concentration in performance (voice or instrument), chamber music performance, conducting, music education, music history and literature, theory and composition, collaborative piano (vocal or instrumental), and string pedagogy.

Our Bachelor of Fine Arts (BFA) program is designed for students seeking intensive study to develop those skills needed for a professional career and/or preparation for graduate school. The Bachelor of Arts (BA) degree is designed for students looking for a broad-based understanding of multiple aspects of music in addition to areas outside of the music field. The Minor in Music is designed to provide students with basic knowledge and broad choices in coursework.

Our programs prepare students for careers in the performing arts, music education, music history and literature, conducting, and theory and composition. A conservatory-style department nestled within a leading research university, our professional artist-faculty inspire and frequently collaborate with students on campus and within Wisconsin's cultural capital.

Our faculty and programs maintain strong partnerships with performance organizations in Milwaukee and the surrounding region providing a vibrant urban location that puts students in the cultural mainstream of a thriving and sophisticated metropolis of over one million people.

The department is an accredited member of the National Association of Schools of Music (NASM) and provides professional training and personal enrichment as the main focus of the Music curriculum. Visit our website (<https://uwm.edu/arts/departments/music/>) for more information.

## Programs

- Music Education, BFA: EC-A General and Choral Music (p. 159)
- Music Education, BFA: EC-A General Music (p. 162)

- Music Education, BFA: EC-A K-12 Music (p. 165)
- Music Performance, Graduate Certificate (p. 168)
- Music, BA (p. 169)
- Music, BFA: Collaborative Piano (p. 172)
- Music, BFA: Guitar (p. 176)
- Music, BFA: Music Composition and Technology (p. 180)
- Music, BFA: Music History and Literature (p. 183)
- Music, BFA: Piano (p. 186)
- Music, BFA: Strings (p. 190)
- Music, BFA: Versatile Voice (p. 194)
- Music, BFA: Voice (p. 196)
- Music, BFA: Winds, Brass, and Percussion (p. 199)
- Music, Minor (p. 203)
- Music, MM/Library and Information Science, MLIS (p. 203)
- Music, MM: Chamber Music Performance (p. 205)
- Music, MM: Collaborative Piano: Instrumental (p. 207)
- Music, MM: Collaborative Piano: Vocal (p. 208)
- Music, MM: Conducting: Choral Emphasis (p. 210)
- Music, MM: Conducting: Instrumental (p. 211)
- Music, MM: Music Education (p. 213)
- Music, MM: Music History and Literature (p. 214)
- Music, MM: Performance: Guitar (p. 216)
- Music, MM: Performance: Keyboard (p. 217)
- Music, MM: Performance: Percussion (p. 219)
- Music, MM: Performance: String Emphasis (p. 221)
- Music, MM: Performance: Vocal Emphasis (p. 222)
- Music, MM: Performance: Woodwinds/Brass (p. 224)
- Music, MM: String Pedagogy (p. 226)
- Music, MM: Theory and Composition (p. 227)

## Peck School of the Arts: Music Scholarships

If you wish to be considered for a Music scholarship, you are encouraged to audition no later than March of the school year preceding your intended matriculation. Lists of suggested repertoire, which can serve as a helpful guideline for your audition, can be obtained from the Peck School of the Arts Department of Music website (<https://uwm.edu/arts/students/scholarships-aid/>) or by contacting the Music Department at (414) 229-5217.

## Midwest Residence Savings

UW-Milwaukee Peck School of the Arts participates in the Midwest Student Exchange Program (<http://uwm.edu/undergrad-admission/student-type/out-of-state/>) (MSEP), which awards reduced tuition (<http://uwm.edu/business-financial-services/bursar/tuition-rate-schedules/>) rates to Undergraduate and Graduate residents of *Illinois, Indiana, Kansas, Michigan, Missouri, Nebraska, and North Dakota*.

*Illinois* residents save even more with an automatic \$1,000 Milwaukee Advantage Award (<http://uwm.edu/undergrad-admission/student-type/out-of-state/>).

*Minnesota* residents are eligible for the **Minnesota Reciprocity** program and are encouraged to apply (<http://www.ohe.state.mn.us/mPg.cfm?pageID=120>) as early as possible.

## Music for the Non-Major

While professional training is the main thrust of the UWM Music curricula, the department offers many personal enrichment courses for the non-music major. UWM students have the opportunity to participate in a wide range of **Performing Organizations** such as:

- University Advanced Women's Choir
- Concert Chorale
- Women's Chorus
- University Men's Chorus
- Collegium Musicum
- Gospel Choir
- University Band
- Symphony Band
- Wind Ensemble
- Jazz Band
- Symphony Orchestra
- University Community Orchestra

- Introduction to Classical Music
- The Concert Experience
- Introduction to World Musics
- American Popular Music
- Fundamentals of Music (Theory)
- Class Voice
- Beginning and Intermediate Guitar
- Beginning and Intermediate Piano

**Private music lessons are also offered to the non-music major under the following conditions:**

1. A successful audition placement into a recognized Music major ensemble.
2. Successful audition placement will allow concurrent registration into an appropriate private performance lesson.
3. Consent of instructor and availability of instructional time.
4. For further information contact the Department of Music at (414) 229-5217.

The following **Academic Music Courses** are also offered:

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Elena Abend	Teaching Professor	MM	The Juilliard School		
Aaron Agulay	Assistant Professor	DMA	James Madison University	✓	
Beverly Belfer	Senior Lecturer	MM	University of Wisconsin - Milwaukee		✓
Barry Benjamin	Professor	BM			✓
Efim Boico	Professor	Diploma			✓
Mitchell Brauner	Associate Professor	PhD			✓
James Burmeister	Senior Lecturer	MM	University of Michigan		✓
John Climer	Professor	DMA	University of Missouri-Kansas City		✓
Jennifer Clippert	Associate Professor	DMA	Northwestern University	✓	
Wayne Cook	Professor	MS			✓
Scott Corley	Teaching Professor	PhD	University of Iowa		
Margery Deutsch	Professor	MM			✓
Zachary Durlam	Associate Professor	DMA	Michigan State University	✓	
William H. Duvall Jr.	Associate Professor	MMA			✓
Thomas Dvorak	Professor	MM			✓
Scott Emmons	Professor	PhD	Eastman School of Music		✓
Valerie Errante	Associate Professor	DMA			✓
Ralph Evans	Professor	DMA			✓
Sheila Feay-Shaw	Professor	PhD	University of Washington	✓	
Gregory Flint	Associate Professor	BM	Northwestern University	✓	
Thomas Gamboa	Assistant Professor	DMA	University of Michigan	✓	
Robert Goodberg	Professor	MA			✓
Gloria Hansen	Senior Lecturer	MM	University of Wisconsin-Milwaukee		✓
Sharon A. Hansen	Professor	DMA			✓
Kevin Hartman	Professor, Head of Peck School of the Arts	MM	Northwestern University	✓	
William Heinrichs	Associate Professor	PhD	University of Iowa		✓
Jamie Hofman	Teaching Faculty III	BM	Indiana University		

Jerry Horner	Professor	MM			✓
Jennifer Hutton	Assistant Professor	PhD	Temple University		
Rene Izquierdo	Professor	MM	Yale University	✓	
Judit Jaimes	Professor	BM			✓
Stefan Kartman	Professor	MM	Juilliard School of Music	✓	
Jun Kim	Associate Professor	DMA	University of Cincinnati	✓	
Abram Loft	Distinguished Professor	PhD			✓
Franklin S. Miller	Associate Professor	PhD			✓
Tim Sterner Miller	Teaching Professor	PhD	University of North Carolina-Chapel Hill	✓	
Daniel Nelson	Professor	MM			✓
Stephen Nelson-Raney	Senior Lecturer	MMEd			✓
Tim Noonan	Teaching Faculty I	PhD	University of Wisconsin-Madison		
Mary Pautz	Associate Professor	PhD			✓
Jeffry Peterson	Professor	MM	University of Illinois-Urbana		✓
Gillian Rodger	Professor, Chair	PhD	University of Pittsburgh	✓	
Nicole Roman	Assistant Professor	DMA	Eastman School of Music	✓	
William R. Schmid	Professor	PhD			✓
Phillip Sink	Assistant Professor	DM	Indiana University	✓	
Gregoria Karides Suchy	Professor	MM			✓
Robert K. Thompson	Professor	BM			✓
Jon Welstead	Professor	PhD	University of Iowa		✓
Alex Wier	Assistant Professor	DMA	Arizona State University	✓	
Yehuda Yannay	Professor	DMA			✓
Bernard Zinck	Associate Professor	MM	The Juilliard School	✓	

## Music Education, BFA: EC-A General and Choral Music

The BFA in Music Education in General and Choral Music prepares students to teach music in elementary and secondary schools and culminates in certification by the State of Wisconsin Department of Public Instruction.

### Requirements

The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise music Early Childhood - Adolescence (EC-A or Wide Range = Birth to Age 21).

To obtain certification, a student must successfully audition and apply for admission to UW-Milwaukee and the Department of Music. For admission to the Teacher Certification Program, students must audition in the Music Education Area upon successful completion of MUS ED 350, which should be completed in the spring semester of their Sophomore year. Admission to the Music Education Program requires performance on a principal instrument/voice, piano, sight singing as well as requirements 1-4 below. A student seeking recommendation for teacher certification must successfully complete all of the following requirements:

1. Pass OWC-A (English), QL-A (Math) and Communications Course with a C or better to fulfill the Basic Skills requirement;
2. Fulfill all degree requirements, including passing all MUS ED specific courses with a C or better;
3. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities;

4. Achieve and maintain at least a 2.75 cumulative GPA;
5. Fulfill the Requirements for Human Relations and Act 31;
6. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements);
7. Meet Content Competency through a 3.0 GPA on specific courses or the Praxis II exam;
8. Complete student teaching successfully; and
9. Successfully submit a passing DPI e-portfolio.

### Music Education BFA University Core

Code	Title	Credits
<b>General Education Requirements</b> <sup>1</sup>		
<i>Competencies</i>		
	Oral and Written Communication – Part A and Part B <sup>2,3</sup>	
	Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>	
	Foreign Language <sup>2</sup>	
<i>Distribution Requirements</i> <sup>1</sup>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>School of Education Requirements</b>		
<b>Electives</b>		
	Electives Outside Peck School of the Arts	6

Electives in Peck School of the Arts <sup>4</sup>	12
<b>Total Credits</b>	<b>45</b>

<sup>1</sup> See General Education Requirements (p. 30) for more information.

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

<sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres. One elective must be three credits of MUSIC 310.

## Music Education BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Proficiencies</b>		
Theory Fundamentals		
Piano Proficiency or MusPerf 1		
MUSIC 140	Class Voice Level I	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>School of Education Requirements</b>		
ED PSY 330	Introduction to Learning and Development	3
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
Choose one:		3
EXCEDUC 300	The Exceptional Individual	
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	
EXCEDUC 600	Survey of Exceptional Education	
EXCEDUC 605	Child, Learner, Disabilities	
<b>School of Education Student Teaching</b>		
MUS ED 477	Student Teaching in Music - Elementary Level	5
MUS ED 478	Student Teaching in Music - Secondary Level	4
MUS ED 479	Seminar in Student Teaching	1
<b>Music Education BFA Core</b>		
Choose one:		

COMMUN 101	Introduction to Interpersonal Communication (SS)	
COMMUN 103	Public Speaking (HU)	
MUS ED 350	Introduction to Teaching Music	2
MUS ED 352	Technology in Music Education	2
MUS ED 460	Pedagogy and Practice for Teaching General Music K-12	4
MUS ED 462	Teaching Secondary Choral Music	3
MUS ED 463	Teaching Instrumental Music	3

### Requirements

*Basic Skills Competency* <sup>5</sup>

*Human Relations* <sup>6</sup>

*Content Competency* <sup>7</sup>

*Act 31* <sup>8</sup>

ANTHRO 213 or AIS 203	American Indian Peoples of Wisconsin Western Great Lakes American Indian Community Life of the Past	
AIS/HIST 263	North American Indian History Since 1887	

**Total Credits** **56**

<sup>5</sup> Must be completed to apply for admission to Mus Ed. A 2.75 cum GPA is also required for admission to Mus Ed and state licensure.

<sup>6</sup> Should be completed prior to Student Teaching.

<sup>7</sup> Required to apply for Student Teaching.

<sup>8</sup> Required to apply for licensure. Also meets the following GER requirements: cultural diversity and social science. Learn more about General Education Requirements here (p. 30).

## EC-A General and Choral Music Certification

Most students will complete this degree by choosing one of the following principal instruments: Piano or Voice.

Code	Title	Credits
<b>Principal Instrument: Piano</b>		
7 semesters of MusPerf 201		
<i>Secondary Music Requirements:</i>		
MUSPERF 111	Lessons in Voice (complete 4 semesters)	
MUSPERF 211	Lessons in Voice (complete 2 semesters)	
<b>Principal Instrument: Voice</b>		
7 semesters of MusPerf 211		
<i>Secondary Music Requirements:</i>		
MUS ED 331	Keyboard Skills for Music Educators I	
MUS ED 332	Keyboard Skills for Music Educators II	
MUSPERF 101	Lessons in Piano (complete 2 semesters)	
<b>Senior Half Recital</b>		
MUSIC 660	Senior Recital: (complete after 7 semesters)	
<b>Performing Ensemble Requirements</b>		
<i>Complete 7 semesters based on ensemble assignments, set at the beginning of each semester:</i>		
MUSIC 44	Alta Voce Singers	



MUSIC 50	Kameraden Chorus	
MUSIC 52	Bella Voce	
MUSIC 56	Concert Chorale	
<b>Choral/Vocal Pedagogy and Techniques</b>		<b>8</b>
MUSIC 245	Basic and Italian Lyric Diction	1
MUSIC 246	German and French Lyric Diction	1
MUSIC 353	Conducting	2
MUSIC 357	Choral Conducting	2
MUSIC 444	Vocal Pedagogy I	2
MUS ED 462	Teaching Secondary Choral Music	3
<b>Additional Music Requirements</b>		
MUS ED 351	Folk Instrument and Popular Instrument Pedagogy and Technique	2

#### Electives

Students completing Principle Instrument: Piano should enroll in and complete 2 credits

Students completing Principle Instrument: Voice should enroll in and complete 4 credits

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

### Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

### Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and

- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

### Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

### Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

### Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)

- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music Education, BFA: EC-A General Music

The BFA in Music Education in General Music prepares students to teach music in elementary and secondary schools and culminates in certification by the State of Wisconsin Department of Public Instruction.

## Requirements

The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise music Early Childhood - Adolescence (EC-A or Wide Range = Birth to Age 21).

To obtain certification, a student must successfully audition and apply for admission to UW-Milwaukee and the Department of Music. For admission to the Teacher Certification Program, students must audition in the Music Education Area upon successful completion of MUS ED 350, which should be completed in the spring semester of their Sophomore year. Admission to the Music Education Program requires performance on a principal instrument/voice, piano, sight singing as well as requirements 1-4 below. A student seeking recommendation for teacher certification must successfully complete all of the following requirements:

1. Pass OWC-A (English), QL-A (Math) and Communications Course with a C or better to fulfill the Basic Skills requirement;
2. Fulfill all degree requirements, including passing all MUS ED specific courses with a C or better;
3. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities;
4. Achieve and maintain at least a 2.75 cumulative GPA;
5. Fulfill the Requirements for Human Relations and Act 31;
6. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements);
7. Meet Content Competency through a 3.0 GPA on specific courses or the Praxis II exam;
8. Complete student teaching successfully; and
9. Successfully submit a passing DPI e-portfolio.

## Music Education BFA University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>School of Education Requirements</b>		<b>9</b>

<b>Electives</b>	
Electives Outside Peck School of the Arts	6
Electives in Peck School of the Arts <sup>4</sup>	12
<b>Total Credits</b>	<b>45</b>

- <sup>1</sup> See General Education Requirements (p. 30) for more information.
- <sup>2</sup> Credits may be utilized in required curriculum areas.
- <sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
- <sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres. One elective must be three credits of MUSIC 310.

### Music Education BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Proficiencies</b>		
Theory Fundamentals		
Piano Proficiency or MusPerf 1		
MUSIC 140	Class Voice Level I	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>School of Education Requirements</b>		
ED PSY 330	Introduction to Learning and Development	3
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
Choose one: 3		
EXCEDUC 300	The Exceptional Individual	
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	
EXCEDUC 600	Survey of Exceptional Education	
EXCEDUC 605	Child, Learner, Disabilities	
<b>School of Education Student Teaching</b>		
MUS ED 477	Student Teaching in Music - Elementary Level	5
MUS ED 478	Student Teaching in Music - Secondary Level	4
MUS ED 479	Seminar in Student Teaching	1
<b>Music Education BFA Core</b>		

Choose one:		
COMMUN 101	Introduction to Interpersonal Communication (SS)	
COMMUN 103	Public Speaking (HU)	
MUS ED 350	Introduction to Teaching Music	2
MUS ED 352	Technology in Music Education	2
MUS ED 460	Pedagogy and Practice for Teaching General Music K-12	4
MUS ED 462	Teaching Secondary Choral Music	3
MUS ED 463	Teaching Instrumental Music	3
<b>Requirements</b>		
<i>Basic Skills Competency</i> <sup>5</sup>		
<i>Human Relations</i> <sup>6</sup>		
<i>Content Competency</i> <sup>7</sup>		
<i>Act 31</i> <sup>8</sup>		
ANTHRO 213 or AIS 203	American Indian Peoples of Wisconsin Western Great Lakes American Indian Community Life of the Past	
AIS/HIST 263	North American Indian History Since 1887	
<b>Total Credits</b>		<b>56</b>

- <sup>5</sup> Must be completed to apply for admission to Mus Ed. A 2.75 cum GPA is also required for admission to Mus Ed and state licensure.
- <sup>6</sup> Should be completed prior to Student Teaching.
- <sup>7</sup> Required to apply for Student Teaching.
- <sup>8</sup> Required to apply for licensure. Also meets the following GER requirements: cultural diversity and social science. Learn more about General Education Requirements here (p. 30).

### EC-A General Music Requirements

Students may choose from a variety of instruments for this program. See your advisor if your principal instrument is not listed below.

Code	Title	Credits
<b>Principal Instrument: Guitar</b>		
7 semesters of one of the following:		
MUSPERF 246 or MUSPERF 247 or MUSPERF 248	Lessons in Guitar: Classical	
<i>Secondary Music Requirements:</i>		
MUS ED 331	Keyboard Skills for Music Educators I	
MUSPERF 101	Lessons in Piano (3 semesters)	
<b>Principal Instrument: Piano</b>		
7 semesters of MusPerf 201		
<i>Secondary Music Requirements:</i>		
MUSPERF 111	Lessons in Voice (4 semesters)	
MUSIC 150 or MUSIC 151	Beginning Guitar Intermediate Guitar I	
<b>Senior Half Recital</b>		
MUSIC 660	Senior Recital: (complete after 7 semesters)	
<b>Performing Ensemble Requirements</b>		
<i>Complete 7 semesters based on ensemble assignments, set at the beginning of each semester:</i>		

MUSIC 44	Alta Voce Singers	
MUSIC 50	Kameraden Chorus	
MUSIC 52	Bella Voce	
MUSIC 56	Concert Chorale	
<b>Additional Music Requirements</b>		
MUS ED 351	Folk Instrument and Popular Instrument Pedagogy and Technique	2
MUS ED 458		2
MUSIC 353	Conducting	2
MUSIC 444	Vocal Pedagogy I	2

**Electives**

Students completing Principle Instrument: Guitar should enroll in and complete 4 credits

Students completing Principle Instrument: Piano should enroll in and complete 5 credits

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

### Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

### Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

## Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

## Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

## Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)

- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department’s recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department’s recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean’s Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean’s Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music Education, BFA: EC-A K-12 Music

The BFA in Music Education in K-12 Music prepares students to teach music in elementary and secondary schools and culminates in certification by the State of Wisconsin Department of Public Instruction.

## Requirements

The Music Department course of study prepares students for recommendation for certification by the State Department of Public Instruction to teach and supervise music Early Childhood - Adolescence (EC-A or Wide Range = Birth to Age 21).

To obtain certification, a student must successfully audition and apply for admission to UW-Milwaukee and the Department of Music. For admission to the Teacher Certification Program, students must audition in the Music Education Area upon successful completion of MUS ED 350, which should be completed in the spring semester of their Sophomore year. Admission to the Music Education Program requires performance on a principal instrument/voice, piano, sight singing as well as requirements 1-4 below. A student seeking recommendation for teacher certification must successfully complete all of the following requirements:

1. Pass OWC-A (English), QL-A (Math) and Communications Course with a C or better to fulfill the Basic Skills requirement;
2. Fulfill all degree requirements, including passing all MUS ED specific courses with a C or better;
3. Show personal qualities giving promise of success as a teacher of music and as a leader in music activities;
4. Achieve and maintain at least a 2.75 cumulative GPA;
5. Fulfill the Requirements for Human Relations and Act 31;
6. Demonstrate teaching competency in their area of expertise through the use of a teaching portfolio (see explanation under Special Core Curriculum Requirements);
7. Meet Content Competency through a 3.0 GPA on specific courses or the Praxis II exam;
8. Complete student teaching successfully; and
9. Successfully submit a passing DPI e-portfolio.

## Music Education BFA University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
Humanities 6		
Natural Sciences (Must include one lab) 6		
Social Sciences 6		
Cultural Diversity <sup>2</sup>		
<b>School of Education Requirements 9</b>		

<b>Electives</b>	
Electives Outside Peck School of the Arts	6
Electives in Peck School of the Arts <sup>4</sup>	12
<b>Total Credits</b>	<b>45</b>

<sup>1</sup> See General Education Requirements (p. 30) for more information.

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

<sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres. One elective must be three credits of MUSIC 310.

## Music Education BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Proficiencies</b>		
Theory Fundamentals		
Piano Proficiency or MusPerf 1		
MUSIC 140	Class Voice Level I	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>School of Education Requirements</b>		
ED PSY 330	Introduction to Learning and Development	3
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
Choose one: 3		
EXCEDUC 300	The Exceptional Individual	
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	
EXCEDUC 600	Survey of Exceptional Education	
EXCEDUC 605	Child, Learner, Disabilities	
<b>School of Education Student Teaching</b>		
MUS ED 477	Student Teaching in Music - Elementary Level	5
MUS ED 478	Student Teaching in Music - Secondary Level	4
MUS ED 479	Seminar in Student Teaching	1
<b>Music Education BFA Core</b>		

Choose one:		
COMMUN 101	Introduction to Interpersonal Communication (SS)	
COMMUN 103	Public Speaking (HU)	
MUS ED 350	Introduction to Teaching Music	2
MUS ED 352	Technology in Music Education	2
MUS ED 460	Pedagogy and Practice for Teaching General Music K-12	4
MUS ED 462	Teaching Secondary Choral Music	3
MUS ED 463	Teaching Instrumental Music	3
<b>Requirements</b>		
<i>Basic Skills Competency</i> <sup>5</sup>		
<i>Human Relations</i> <sup>6</sup>		
<i>Content Competency</i> <sup>7</sup>		
<i>Act 31</i> <sup>8</sup>		
ANTHRO 213 or AIS 203	American Indian Peoples of Wisconsin Western Great Lakes American Indian Community Life of the Past	
AIS/HIST 263	North American Indian History Since 1887	
<b>Total Credits</b>		<b>56</b>

<sup>5</sup> Must be completed to apply for admission to Mus Ed. A 2.75 cum GPA is also required for admission to Mus Ed and state licensure.

<sup>6</sup> Should be completed prior to Student Teaching.

<sup>7</sup> Required to apply for Student Teaching.

<sup>8</sup> Required to apply for licensure. Also meets the following GER requirements: cultural diversity and social science. Learn more about General Education Requirements here (p. 30).

## EC-A K-12 Music Requirements

Code	Title	Credits
<b>Principal Instrument</b>		
7 semesters of MusPerf 2XX		
<i>Secondary Music Requirement:</i>		
One semester of 1XX lessons on secondary area <sup>9</sup>		1
MUS ED 331	Keyboard Skills for Music Educators I	1
MUS ED 332	Keyboard Skills for Music Educators II	1
<b>Performing Ensemble Requirements</b>		
<i>Complete 5 semesters on principal instrument, 1 semester on a secondary instrument, and 1 semester of a small/chamber ensemble based on ensemble assignments, set at the beginning of each semester:</i>		
<b>Large Ensembles</b>		
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
MUSIC 44	Alta Voce Singers	
MUSIC 45	Alta Voce Singers	
MUSIC 50	Kameraden Chorus	
MUSIC 52	Bella Voce	
MUSIC 56	Concert Chorale	
MUSIC 81	University Community Orchestra	
MUSIC 30	University Community Band	

**Small/Chamber Ensembles**

MUSIC 271	Jazz Ensemble	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 452	Early Music Ensemble	
MUSIC 457	Opera Theatre	
MUSIC 521	Popular Music Ensemble (or ensemble comprised of a single instrument, i.e. saxophone ensemble)	

**Music Education**

MUSIC 353	Conducting	2
MUSIC 354	Instrumental Conducting	2
or MUSIC 357	Choral Conducting	

**Pedagogy and Techniques**

MUSPERF 315	Brass Pedagogy and Techniques	3
MUSPERF 316	String Pedagogy and Techniques	3
MUSPERF 317	Woodwind Pedagogy and Techniques	3
MUSPERF 318	Percussion Pedagogy and Techniques	2
MUSIC 444	Vocal Pedagogy I	2
MUSIC 245	Basic and Italian Lyric Diction	1
MUSIC 246	German and French Lyric Diction	1
MUS ED 351	Folk Instrument and Popular Instrument Pedagogy and Technique	2

**Total Credits** **24**

<sup>9</sup> Instrumentalists should take voice, vocalists should take an instrument other than piano or guitar. Instrumentalists need to complete this requirement before taking MUSIC 444.

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

### Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

### Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

## Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

## Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

## Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music Performance, Graduate Certificate

This certificate is designed for the instrumentalist who is admitted by audition to the Institute of Chamber Music at UW-Milwaukee. The major focus of the Institute of Chamber Music is to provide professional training experiences in the performance of chamber repertoire through well-matched chamber ensembles from duos through large chamber ensembles.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Eligibility and Admission

Students will be admitted via audition, using the repertoire specified for Graduate Students on the PSOA Music Audition page. Curriculum Vita required.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.



## Credits and Courses

Certificate is a one-year program (14-18 credits) during which performers can hone skills in selected areas, including advanced repertoire and chamber music performance, through study with faculty and academic staff.

Code	Title	Credits
<b>Specific Requirements</b>		
<i>Select 4 cr each for 2 semesters:</i>		
MUSPERF 7XX	Performance (Instrument/Voice Lessons)	8
<i>Select 1 cr each for 2 semesters:</i>		
MUSIC 782	Symphony Orchestra	2
MUSIC 789	Wind Ensemble	
MUSIC 795	Concert Chorale (or other appropriate large ensemble depending on instrument/voice)	
<i>Select 1-2 cr for 2 semesters:</i>		
Any graduate level Music or MusPerf class related to performing interests		4-8
<b>Total Credits</b>		<b>14-18</b>

### Recital

If the student chooses, they may present a capstone performance comprising solo and/or chamber works.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Music, BA

The BA is a general Music degree designed for Music students interested in combining a Music major with a second major or minor in a non-music degree program.

## Requirements

### University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	Electives Outside Peck School of the Arts	12
	Electives in Peck School of the Arts <sup>4</sup>	12
	Electives Outside Discipline	3
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> See General Education Requirements (p. 30) for more information.

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

<sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

## Major Requirements

The minimum number of credits required to complete the Bachelor of Arts is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Lessons in Principal Instrument</b>		
<i>Option A:</i>		
	MusPerf 3xx (6 semesters) <sup>5</sup>	
	MusPerf 1xx (2 semesters) <sup>6</sup>	
<i>Option B:</i>		

MusPerf 3xx (8 semesters)	
<b>Performance Ensemble</b>	
Select 8 semesters	8
<b>Music Theory</b>	
MUSIC 123	Aural Theory I 1
MUSIC 124	Aural Theory II 1
MUSIC 127	Materials of Theory I 2
MUSIC 128	Materials of Theory II 3
MUSIC 225	Materials of Theory III 3
MUSIC 226	Aural Theory III 1
MUSIC 421	Materials of Theory IV 3
<b>Music History</b>	
MUSIC 106	Foundations of Music (one semester taken during freshman year) 3
MUSIC 211	General History of Western Music I 3
MUSIC 212	General History of Western Music II 3
<b>Required Elective</b>	
Select one Music Theory or Music History Elective (see lists below)	3
<b>General Electives</b>	
Select 27 credits	27
<b>Total Credits</b>	<b>75-77</b>

<sup>5</sup> Additional semesters of Principal Instrument study may be taken as Music electives.

<sup>6</sup> Can be completed concurrently with 200 level lessons. Based on audition results, students enroll in MUSPERF 1 (Levels I & II) for up to two semesters to attain piano proficiency and/or MUSPERF 101 up to two semesters if you elect to take piano. MUSPERF 1 will not be counted toward degree requirement.

## Music Theory Electives

Code	Title	Credits
MUSIC 220	Introduction to Computers and Music	3
MUSIC 321	Counterpoint	3
MUSIC 323	Instrumental and Choral Orchestration	3
MUSIC 327	Studio Techniques	3
MUSIC 328	Interactive Electronic Music	3
MUSIC 421	Materials of Theory IV	3
MUSIC 680	Special Studies in Music:	3

## Music History Electives

Code	Title	Credits
MUSIC 308	Selected Topics in Music History and Literature:	3
MUSIC 311	Music of the Baroque Era	3
MUSIC 312	Music of the Classic Era	3
MUSIC 313	Music of the Romantic Era	3
MUSIC 314	Music since 1900	3
MUSIC 317	Introduction to American Music	3
MUSIC 449	Women in Music:	3
MUSIC 680	Special Studies in Music:	3

## Bachelor of Arts in Music Curriculum

Recommended course order.

Year 1		Credits
<b>Fall</b>		
Select one of the following in music performance: <sup>1</sup>		1
MUSPERF 1 or MUSPERF 101	Fundamentals of Piano: or Lessons in Piano	
MUSPERF 3XX	Principal Instrument	2
MUSIC XXX	Performance Ensemble	1
MUSIC 123	Aural Theory I	1
MUSIC 127	Materials of Theory I	2
MUSIC 106	Foundations of Music	3
Electives or Core Curriculum		5
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
Select one of the following in music performance: <sup>1</sup>		1
MUSPERF 1	Fundamentals of Piano:	
MUSPERF 101	Lessons in Piano	
MUSPERF 3XX	Principal Instrument	2
MUSIC XXX	Performance Ensemble	1
MUSIC 124	Aural Theory II	1
MUSIC 128	Materials of Theory II	3
Electives or Core Curriculum		7
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Fall</b>		
MUSPERF 101	Lessons in Piano	1
MUSPERF 3XX	Principal Instrument	2
MUSIC XXX	Performance Ensemble	1
MUSIC 225	Materials of Theory III <sup>2</sup>	3
MUSIC 226	Aural Theory III	1
MUSIC 211	General History of Western Music I	3
Electives or Core Curriculum		4
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
MUSPERF 101	Lessons in Piano	1
MUSPERF3XX	Principal Instrument	2
MUSIC XXX	Performance Ensemble	1
MUSIC 421	Materials of Theory IV	3
MUSIC 212	General History of Western Music II	3
Electives or Core Curriculum		5
<b>Credits</b>		<b>15</b>
<b>Year 3</b>		
<b>Fall</b>		
MUSPERF 101	Lessons in Piano	1
MUSPERF 3XX	Principal Instrument	2
MUSIC XXX	Performance Ensemble	1
Select one Music History or Music Theory elective in either Junior or Senior year (see list below)		3
Electives or Core Curriculum		8
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
MUSPERF 101	Lessons in Piano	1
MUSPERF 3XX	Principal Instrument	2
MUSIC XXX	Performance Ensemble	1
Select one Music History or Music Theory elective in either Junior or Senior year (see list below)		3
Electives or Core Curriculum		8
<b>Credits</b>		<b>15</b>

**Year 4**

Fall		
MUSIC 3XX	Principal Instrument	1
MUSIC XXX	Performance Ensemble	1
MUSIC 310	Introduction to World Musics <sup>3</sup>	3
Electives or Core Curriculum		10
<b>Credits</b>		<b>15</b>
Spring		
MUSPERF 3XX	Principal Instrument	2
MUSIC XXX	Performance Ensemble	1
Electives or Core Curriculum		12
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

- <sup>1</sup> Music Performance Courses. 12 cr can be satisfied by six semesters in a single Principal Instrument study at the 300 level and two semesters of Piano at the 100 level. Additional semesters of Principal Instrument study may be taken as Music electives.
- <sup>2</sup> MUSIC 225 will serve a successful completion for the University QL-B requirement.
- <sup>3</sup> MUSIC 310 will serve as successful completion for the University OWC-B requirement.

**Music History or Music Theory Electives**

Code	Title	Credits
MUSIC 308	Selected Topics in Music History and Literature: (subtitle)	3
MUSIC 311	Music of the Baroque Era	3
MUSIC 312	Music of the Classic Era	3
MUSIC 313	Music of the Romantic Era	3
MUSIC 314	Music since 1900	3
MUSIC 220	Introduction to Computers and Music	3
MUSIC 321	Counterpoint	3
MUSIC 323	Instrumental and Choral Orchestration	3
MUSIC 327	Studio Techniques	3
MUSIC 328	Interactive Electronic Music	3
MUSIC 680	Special Studies in Music: (Variable Topic)	1-3

**Degree Requirements**

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

**Performance Ensemble Requirement**

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women’s Choir, Concert Chorale, Women’s Chorus, University Men’s Chorus, University Band,

Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

**Performance Ensemble Requirement for Transfer Students**

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

**Recital Attendance and Music Convocation Requirements**

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
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- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

**Music Performance Course Enrollment Requirements**

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

## Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

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- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Advising

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## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music, BFA: Collaborative Piano

The BFA in Music: Collaborative Piano curriculum is one of few such undergraduate programs offered nationwide. It offers training for pianists anticipating careers in vocal accompanying, as well as coaching art song, opera, and musical theatre. Students receive weekly lessons in collaborative piano, as well as solo piano, and piano technique, and participate in rehearsals and performances for the UWM Opera Theatre, Milwaukee Opera Theatre, and UWM choirs.

## Requirements

### University Core

Code	Title	Credits
<b>General Education Requirements</b> <sup>1</sup>		
<i>Competencies</i>		
	Oral and Written Communication – Part A and Part B <sup>2,3</sup>	
	Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>	
	Foreign Language <sup>2</sup>	
<i>Distribution Requirements</i> <sup>1</sup>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	Electives Outside Peck School of the Arts	12
	Electives in Peck School of the Arts <sup>4</sup>	12
	Electives Outside Discipline	3
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> See General Education Requirements (p. 30) for more information.

<sup>2</sup> Credits may be utilized in required curriculum areas.

- <sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
- <sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

### Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Competencies</b>		
MUSIC 1	Theory Fundamentals	
MUSPERF 1	Fundamentals of Piano:	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>Total Credits</b>		<b>23</b>

### Collaborative Piano Requirements

Code	Title	Credits
<b>Principal Instrument</b>		
MUSPERF 404	Lessons in Collaborative Piano (complete 8 semesters)	24
<b>Performing Organizations</b>		
Four semesters of one (cannot be taken concurrently with Music 457 or 370):		
MUSIC 44	Alta Voce Singers	
or MUSIC 50	Kameraden Chorus	
or MUSIC 52	Bella Voce	
or MUSIC 56	Concert Chorale	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
MUSIC 457	Opera Theatre <sup>1</sup>	
or MUSIC 370	Chamber Ensemble - Mixed	
<b>Music Theory Electives</b>		<b>3</b>
Choose 3 credits of the following:		
MUSIC 220	Introduction to Computers and Music	
MUSIC 321	Counterpoint	
MUSIC 323	Instrumental and Choral Orchestration	
<b>Music History Electives</b>		<b>3</b>
Choose 3 credits of the following:		

MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
<b>Conducting</b>		<b>2</b>
MUSIC 353	Conducting	
<b>Related Music Requirements</b>		<b>8-9</b>
MUSIC 245	Basic and Italian Lyric Diction	
MUSIC 246	German and French Lyric Diction	
MUSIC 275	Keyboard Performance Repertoire	
MUSIC 276	Keyboard Performance Repertoire	
MUSIC 361	Ensemble - Piano	
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	
MUSIC 378	Song Literature II: United States and Select European Countries	
MUSIC 680	Special Studies in Music: <sup>2</sup>	
100 level instrumental or vocal lessons <sup>3</sup>		
<b>Recital</b>		<b>2</b>
MUSIC 659	Junior Recital	
MUSIC 660	Senior Recital:	
<b>Music Electives</b>		<b>6-7</b>
<b>General Electives</b>		<b>5</b>
May be taken from any area of the University (including Music) to fulfill requirements		
<b>Total Credits</b>		<b>62</b>

- <sup>1</sup> Required to take 4 semesters of MUSIC 457 or MUSIC 370 at 1 credit while concurrently taking student lessons as assigned.
- <sup>2</sup> May be repeated with change in topic.
- <sup>3</sup> Complete two semesters (2 credits).

### Recommended Course Sequence

Year 1		Credits
<b>Fall</b>		
Choose one:		1
MUSIC 44	Alta Voce Singers	
MUSIC 50	Kameraden Chorus	
MUSIC 52	Bella Voce	
MUSIC 56	Concert Chorale	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
MUSPERF 404	Lessons in Collaborative Piano	3
MUSIC 106	Foundations of Music	3
MUSIC 123	Aural Theory I	1
MUSIC 127	Materials of Theory I	2
Electives or Core Curriculum		6
		<b>Credits</b>
		<b>16</b>
<b>Spring</b>		
Choose one:		1
MUSIC 44	Alta Voce Singers	
MUSIC 50	Kameraden Chorus	
MUSIC 52	Bella Voce	

MUSIC 56	Concert Chorale	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
MUSIC 124	Aural Theory II	1
MUSIC 128	Materials of Theory II	3
MUSPERF 404	Lessons in Collaborative Piano	3
Electives or Core Curriculum		8
<b>Credits</b>		<b>16</b>

**Year 2****Fall**

Choose one:		1
MUSIC 44	Alta Voce Singers	
MUSIC 50	Kameraden Chorus	
MUSIC 52	Bella Voce	
MUSIC 56	Concert Chorale	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
MUSIC 211	General History of Western Music I	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSPERF 404	Lessons in Collaborative Piano	3
Electives or Core Curriculum		5
<b>Credits</b>		<b>16</b>

**Spring**

Choose one:		1
MUSIC 44	Alta Voce Singers	
MUSIC 50	Kameraden Chorus	
MUSIC 52	Bella Voce	
MUSIC 56	Concert Chorale	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
MUSIC 212	General History of Western Music II	3
MUSPERF 404	Lessons in Collaborative Piano	3
Core Curriculum and Electives		9
<b>Credits</b>		<b>16</b>

**Year 3****Fall**

Music Theory Elective (choose one):		3
MUSIC 220	Introduction to Computers and Music	
MUSIC 321	Counterpoint	
MUSIC 323	Instrumental and Choral Orchestration	
MUSIC 421	Materials of Theory IV	
MUSIC 457 or MUSIC 370	Opera Theatre or Chamber Ensemble - Mixed	1
MUSPERF 404	Lessons in Collaborative Piano	3
Related Music Courses		3
MUSIC 245	Basic and Italian Lyric Diction	
MUSIC 246	German and French Lyric Diction	
MUSIC 275	Keyboard Performance Repertoire	
MUSIC 276	Keyboard Performance Repertoire	
MUSIC 361	Ensemble - Piano	
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	
MUSIC 378	Song Literature II: United States and Select European Countries	
MUSIC 680	Special Studies in Music: 100 level instrumental or vocal lessons	
Core Curriculum and Electives		6
<b>Credits</b>		<b>16</b>

**Spring**

Related Music Courses		3
MUSIC 245	Basic and Italian Lyric Diction	
MUSIC 246	German and French Lyric Diction	
MUSIC 275	Keyboard Performance Repertoire	
MUSIC 276	Keyboard Performance Repertoire	
MUSIC 361	Ensemble - Piano	
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	
MUSIC 378	Song Literature II: United States and Select European Countries 100 level instrumental or vocal lessons	
MUSIC 457 or MUSIC 370	Opera Theatre or Chamber Ensemble - Mixed	1
MUSIC 659	Junior Recital	0
MUSPERF 404	Lessons in Collaborative Piano	3
Choose one:		3
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 310	Introduction to World Musics	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
Electives or Core Curriculum		6
<b>Credits</b>		<b>16</b>

**Year 4****Fall**

MUSIC 310	Introduction to World Musics	3
MUSIC 353	Conducting	2
MUSIC 457 or MUSIC 370	Opera Theatre or Chamber Ensemble - Mixed	1
MUSPERF 404	Lessons in Collaborative Piano	3
Electives or Core Curriculum		8
<b>Credits</b>		<b>17</b>

**Spring**

MUSIC 457 or MUSIC 370	Opera Theatre or Chamber Ensemble - Mixed	1
MUSIC 660	Senior Recital:	2
MUSPERF 404	Lessons in Collaborative Piano	3
Related Music Courses:		5
MUSIC 245	Basic and Italian Lyric Diction	
MUSIC 246	German and French Lyric Diction	
MUSIC 275	Keyboard Performance Repertoire	
MUSIC 276	Keyboard Performance Repertoire	
MUSIC 361	Ensemble - Piano	
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	
MUSIC 378	Song Literature II: United States and Select European Countries 100 level instrumental or vocal lessons	
MUSIC 680	Special Studies in Music:	
Electives or Core Curriculum		6
<b>Credits</b>		<b>17</b>
<b>Total Credits</b>		<b>130</b>

## Undergraduate Admission Requirements

To be considered for the Music BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition or interview. Please visit the Peck School admissions page for more information.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

### Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

### Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

### Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

### Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

### Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

## Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

## Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

## Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western

Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

## Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music, BFA: Guitar

In the BFA: Guitar program students choose a primary style with the options of classical or jazz guitar. Guitar majors take classes in guitar-related courses like repertoire, ensemble, pedagogy, and guitar history.

## Requirements

### University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	Electives Outside Peck School of the Arts	12
	Electives in Peck School of the Arts <sup>4</sup>	12
	Electives Outside Discipline	3
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> See General Education Requirements (p. 30) for more information.

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

<sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

## Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses



in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Competencies</b>		
MUSIC 1	Theory Fundamentals	
MUSPERF 1	Fundamentals of Piano:	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>Total Credits</b>		<b>23</b>

### Guitar Requirements

Code	Title	Credits
<b>Piano Proficiency</b>		
MUSPERF 1	Fundamentals of Piano: (1 cr for 2 semesters:)	
<b>Principal Instrument</b> <b>24</b>		
Classical or Jazz Guitar: Choose one of the following for 8 semesters		
MUSPERF 446	Lessons in Guitar: Classical	
MUSPERF 448	Lessons in Guitar: Jazz	
<b>Performance Ensembles</b> <b>8</b>		
Classical <sup>5</sup>		
Jazz Style <sup>6</sup>		
<b>Music Theory Electives</b> <b>3</b>		
<i>Choose one of the following:</i>		
MUSIC 220	Introduction to Computers and Music	
MUSIC 321	Counterpoint	
MUSIC 323	Instrumental and Choral Orchestration	
MUSIC 327	Studio Techniques	
MUSIC 328	Interactive Electronic Music	
MUSIC 421	Materials of Theory IV	
MUSIC 680	Special Studies in Music:	
<b>Music History Electives</b> <b>3</b>		
<i>Choose one of the following:</i>		
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
<b>Required Guitar Classes</b>		
MUS ED 385	Guitar Pedagogy	2

MUSIC 242	Fretboard Essentials	2
MUSIC 248	Sight-Reading for Guitar I	1
MUSIC 348	Sight-Reading for Guitar II	1
MUSIC 349	Classical Guitar History and Literature	3
MUSIC 353	Conducting	2
MUSIC 489	Workshop: (Guitar Technique) <sup>7</sup>	1
<b>Music Electives</b>		<b>5</b>
<b>Recital</b>		<b>2</b>
MUSIC 659	Junior Recital	
MUSIC 660	Senior Recital:	
<b>General Electives</b>		<b>5</b>
May be taken from any area of the University (including Music) to fulfill requirements		
<b>Total Credits</b>		<b>62</b>

<sup>5</sup> A minimum of two semesters in a Choral Ensemble: MUSIC 44, MUSIC 50, MUSIC 52. or MUSIC 56. Required 6 semesters in MUSIC 274 for Classical Guitar majors.

<sup>6</sup> A minimum of two semesters in a Choral Ensemble: MUSIC 44, MUSIC 50, MUSIC 52, or MUSIC 56. Required 6 semesters in MUSIC 402.

<sup>7</sup> Students may enroll in a maximum of two semesters (2 credits). Credit for the second semester will be counted as a general elective.

### Recommended Course Sequence

Year 1		Credits
<b>Fall</b>		
Choose one:		1
MUSIC 44	Alta Voce Singers	
MUSIC 50	Kameraden Chorus	
MUSIC 52	Bella Voce	
MUSIC 56	Concert Chorale	
MUSIC 106	Foundations of Music	3
MUSIC 123	Aural Theory I	1
MUSIC 127	Materials of Theory I	2
MUSIC 489	Workshop: (Guitar Technique)	1
MUSPERF 1	Fundamentals of Piano:	1
Choose one:		3
MUSPERF 446	Lessons in Guitar: Classical	
MUSPERF 448	Lessons in Guitar: Jazz	
Electives or Core Curriculum		4
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
Choose one:		1
MUSIC 44	Alta Voce Singers	
MUSIC 50	Kameraden Chorus	
MUSIC 52	Bella Voce	
MUSIC 56	Concert Chorale	
MUSIC 124	Aural Theory II	1
MUSIC 128	Materials of Theory II	3
MUSIC 242	Fretboard Essentials	2
MUSIC 248	Sight-Reading for Guitar I	1
MUSPERF 1	Fundamentals of Piano:	1
Choose one:		3
MUSPERF 446	Lessons in Guitar: Classical	
MUSPERF 448	Lessons in Guitar: Jazz	
Electives or Core Curriculum		4
<b>Credits</b>		<b>16</b>

<b>Year 2</b>		
<b>Fall</b>		
MUSIC 211	General History of Western Music I	3
MUSIC 274 or MUSIC 402	Guitar Repertoire and Ensemble or Jazz Combo	1
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 348	Sight-Reading for Guitar II	1
Choose one:		3
MUSPERF 446	Lessons in Guitar: Classical	
MUSPERF 448	Lessons in Guitar: Jazz	
Electives or Core Curriculum		4

**Credits** 16

<b>Spring</b>		
MUSIC 212	General History of Western Music II	3
MUSIC 274 or MUSIC 402	Guitar Repertoire and Ensemble or Jazz Combo	1
MUSIC 421	Materials of Theory IV	3
Choose one:		3
MUSPERF 446	Lessons in Guitar: Classical	
MUSPERF 448	Lessons in Guitar: Jazz	
Electives or Core Curriculum		6

**Credits** 16

<b>Year 3</b>		
<b>Fall</b>		
MUS ED 385	Guitar Pedagogy	2
MUSIC 274 or MUSIC 402	Guitar Repertoire and Ensemble or Jazz Combo	1
MUSIC 349	Classical Guitar History and Literature	3
MUSIC 489	Workshop: (Guitar Techniques)	1
Choose one:		3
MUSPERF 446	Lessons in Guitar: Classical	
MUSPERF 448	Lessons in Guitar: Jazz	
Electives or Core Curriculum		8

**Credits** 18

<b>Spring</b>		
MUSIC 274 or MUSIC 402	Guitar Repertoire and Ensemble or Jazz Combo	1
MUSIC 659	Junior Recital	0
MUSIC 489	Workshop: (Guitar Technique)	1
Choose one Music History elective:		3
MUSIC 102	American Popular Music	
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
Choose one:		3
MUSPERF 446	Lessons in Guitar: Classical	
MUSPERF 448	Lessons in Guitar: Jazz	
Electives or Core Curriculum		7

**Credits** 15

<b>Year 4</b>		
<b>Fall</b>		
MUSIC 274 or MUSIC 402	Guitar Repertoire and Ensemble or Jazz Combo	1
MUSIC 353	Conducting	2
Choose one Music Theory elective:		3
MUSIC 220	Introduction to Computers and Music	
MUSIC 321	Counterpoint	
MUSIC 323	Instrumental and Choral Orchestration	
MUSIC 327	Studio Techniques	

MUSIC 328	Interactive Electronic Music	
MUSIC 680	Special Studies in Music:	
Choose one:		3
MUSPERF 446	Lessons in Guitar: Classical	
MUSPERF 448	Lessons in Guitar: Jazz	
Electives or Core Curriculum		7

**Credits** 16

<b>Spring</b>		
MUSIC 274 or MUSIC 402	Guitar Repertoire and Ensemble or Jazz Combo	1
MUSIC 310	Introduction to World Musics	3
MUSIC 660	Senior Recital:	2
Choose one:		3
MUSPERF 446	Lessons in Guitar: Classical	
MUSPERF 448	Lessons in Guitar: Jazz	
Electives or Core Curriculum		8

**Credits** 17

**Total Credits** 130

## Undergraduate Admission Requirements

To be considered for the Music BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition or interview. Please visit the Peck School admissions page for more information.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

## Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

## Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

## Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

## Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

### Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

### Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

### Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
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Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

### Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

### Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

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- Music (Composition & Technology Program)
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Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

# Music, BFA: Music Composition and Technology

The Music, BFA: Music Composition and Technology program fosters development in instrumental, vocal, and electroacoustic composition, with an emphasis on contemporary and experimental techniques.

## Requirements

### University Core

Code	Title	Credits
<b>General Education Requirements</b> <sup>1</sup>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		

Foreign Language<sup>2</sup>

<i>Distribution Requirements</i> <sup>1</sup>	
Humanities	6
Natural Sciences (Must include one lab)	6
Social Sciences	6
<i>Cultural Diversity</i> <sup>2</sup>	
<b>Electives</b>	
Electives Outside Peck School of the Arts	12
Electives in Peck School of the Arts <sup>4</sup>	12
Electives Outside Discipline	3
<b>Total Credits</b>	<b>45</b>

<sup>1</sup> See General Education Requirements (p. 30) for more information.

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

<sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

## Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Competencies</b>		
MUSIC 1	Theory Fundamentals	
MUSPERF 1	Fundamentals of Piano:	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>Total Credits</b>		<b>23</b>

## Music Composition and Technology Requirements

### Required Composition and Theory Background

All potential Composition majors must show evidence of compositional ability before acceptance to the program. Each applicant must submit a Composition Portfolio of previous compositional work to the Composition faculty. The portfolio acts as the equivalent of an audition. Prospective students seeking to enter this program must also be able to begin by enrolling in the MUSIC 123 and MUSIC 127 series, as determined by the Theory Placement Exam. Those students who do not meet this criterion may be advised to enter the program on a Provisional basis, but must take MUSIC 1, receive a final grade of "B" or better, and resubmit their

Composition Portfolio before a final admission and placement decision is determined by the Music Composition Area.

### Composition Portfolio

The Composition Portfolio should contain the applicant's best three to five representative works. At least one copy of a written score is required. The score may be of any ensemble configuration, from large ensemble to piano solo. Computer-generated scores, or digital software compositions are accepted but not required. Evidence of audio recordings in an appropriate digital audio format, fixed media, web-based, or comparable format is expected. The compositions on the recordings may or may not be the same compositional scores submitted with the portfolio. Other possible formats for compositions are Standard MIDI File, an image file or movie of a composition's performance, or soundtrack to a video work. This latter may be a collaborative work with video artist(s). Group compositions are not acceptable. There is no particular style requirement for applicants, nor is there is a duration requirement for their representative works. However, they must be complete works.

### Required Piano Proficiency

Depending upon audition results, students may be required to enroll in MUSPERF 1 for up to two semesters or until they can pass a satisfactory piano audition through the Piano faculty. Those who place at the 100 level must take a minimum of 4 semesters of piano. All students entering at the 300 level must take 2 semesters of piano. Piano proficiency at 300 level is satisfied by demonstrated ability to play works of moderate difficulty, such as Bach's Two-part Inventions, Bartok's Mikrokosmos Book IV, Schumann's "Kinderszenen", or Easy to Intermediate Classics. Deficiencies are made up without credit.

A student who is deficient in any of the above may be admitted Provisionally, but only after evaluation and approval by the Composition Area. Contact the Composition Area for further information.

### Graduation Requirements

Completion of the BFA in Music Composition and Technology will require each student to compose a minimum of five compositions over the lifetime of their program. While a minimum of three works must be written for solo or small ensemble, and one work for solo electronic or combined electronic and acoustic instrument(s), one work may be for large ensemble (orchestra, chamber, wind symphony, or choir). Of the five works required, three works must be presented publicly, each a minimum of nine minutes in duration.

Code	Title	Credits
<b>Lessons in Principal Instrument</b>		
MUSPERF 461	Lessons in Composition (enroll in 2 credits for 8 semesters)	16
<b>Piano Lessons</b> <sup>5</sup>		
Students must take 4 credits of MUSPERF 101 or MUSPERF 301 depending on placement		4
MUSPERF 101	Lessons in Piano (4 semesters)	
MUSPERF 301	Lessons in Piano (2 semesters)	
<b>Performance Ensemble</b> <sup>6</sup>		
MUSIC 44	Alta Voce Singers	
MUSIC 52	Bella Voce	
MUSIC 50	Kameraden Chorus	
MUSIC 56	Concert Chorale	
<b>Music Technology</b>		
MUSIC 220	Introduction to Computers and Music	3

MUSIC 327	Studio Techniques	3
MUSIC 328	Interactive Electronic Music	3
MUSIC 420	Advanced Electronic Music and Sound Art:	3
<b>Conducting</b>		
MUSIC 353	Conducting	2
<b>Additional Music Theory and History Requirements</b>		
MUSIC 314	Music since 1900	3
MUSIC 321	Counterpoint	3
MUSIC 323	Instrumental and Choral Orchestration	3
<b>Music Electives</b>		
<b>General Electives</b>		
General electives (any area including Music)		5
<b>Senior Recital or Thesis</b> <sup>7</sup>		
MUSIC 660	Senior Recital:	2
<b>Total Credits</b>		<b>62</b>

- <sup>5</sup> Piano proficiency and subsequent MusPerf series is based on a student's Piano Proficiency placement. See above for additional details.
- <sup>6</sup> Students must complete a minimum of 7 credits of any approved music ensemble. Other approved music ensembles are: University Band, Symphony Band, University Orchestra and Wind Ensemble. Additional credits may be taken and/or serve as electives in New Music Ensemble, Jazz Ensemble, Percussion Ensemble, Collegium Musicum or Guitar Ensemble.
- <sup>7</sup> In the semester the student intends to graduate, they must either register for Senior Recital or Senior Thesis. Registering for Senior Recital stipulates a public recital of the student's compositions lasting a minimum of one hour in duration. Registering for Senior Thesis requires the student to submit the following to the Composition Faculty: a final composition portfolio, which consists of the five required compositions, along with recordings (as available). Additionally, printed programs representing the public presentation of three works are required.

## Undergraduate Admission Requirements

To be considered for the Music BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition or interview. Please visit the Peck School admissions page for more information.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

### Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

## Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

## Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

## Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

## Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

## Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

## Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

## Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

## Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)

- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music, BFA: Music History and Literature

The BFA in Music History and Literature program focuses on the historical and critical study of music, and prepares the student for further study in musicology, ethnomusicology, music librarianship, or music criticism. Students enjoy access to an extensive music library, including printed & digital scores, CDs, LPs, books about music, and streaming audio. In addition, students experience training in librarianship skills through work with the Coordinated Program in Music Librarianship – a joint degree between the School of Information Studies and the Peck School of the Arts Department of Music.

## Requirements

### University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	Electives Outside Peck School of the Arts	12
	Electives in Peck School of the Arts <sup>4</sup>	12
	Electives Outside Discipline	3
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> See General Education Requirements (p. 30) for more information.

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

<sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

### Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Competencies</b>		
MUSIC 1	Theory Fundamentals	
MUSPERF 1	Fundamentals of Piano:	

<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>Total Credits</b>		<b>23</b>

## Music History and Literature Requirements

Code	Title	Credits
Muserf 3XX (Principal Instrument)		16
Take 0-2 credits:		0-2
MUSPERF 101	Lessons in Piano	
Performance Ensemble		4
MUSIC 452	Early Music Ensemble <sup>5</sup>	4
MUSIC 321	Counterpoint	3
MUSIC 450	Introduction to Musicology	3
<b>Music History Electives</b>		<b>12</b>
Complete 12 credits from the following list:		
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
MUSIC 317	Introduction to American Music	
MUSIC 449	Women in Music:	
MUSIC 680	Special Studies in Music:	
<b>General Electives</b>		<b>6</b>
May be taken from any area of the University (including Music) to fulfill requirements.		
<b>Foreign Language</b>		<b>14</b>
14 credits, minimum four-semesters of study in a single language. German is the preferred language. Italian is also acceptable.		
<b>Total Credits</b>		<b>62-64</b>

<sup>5</sup> Enroll in and complete four semesters at 1 credit per semester.

## Recommended Course Sequence

<b>Year 1</b>		
<b>Fall</b>		
Select one of the following:		
MUSPERF 1 or MUSPERF 101	Fundamentals of Piano: or Lessons in Piano	
MusPerf 3XX		2
Performance Ensemble		1
MUSIC 106	Foundations of Music	3

MUSIC 123	Aural Theory I	1
MUSIC 127	Materials of Theory I	2
HIST 101	Western Civilization: Ancient World to 1500	3
Electives or Core Curriculum		4
		<b>Credits</b>
		<b>16</b>
<b>Spring</b>		
Select one of the following:		
MUSPERF 1 or MUSPERF 101	Fundamentals of Piano: or Lessons in Piano	
MUSIC 124	Aural Theory II	1
MUSIC 128	Materials of Theory II	3
MusPerf 3XX		2
Performance Ensemble		1
HIST 102	Western Civilization: 1500 to the Present	3
Electives or Core Curriculum		6
		<b>Credits</b>
		<b>16</b>

<b>Year 2</b>		
<b>Fall</b>		
MUSIC 211	General History of Western Music I	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MusPerf 3XX		2
Performance Ensemble		1
Electives or Core Curriculum		6
		<b>Credits</b>
		<b>16</b>
<b>Spring</b>		
MUSIC 212	General History of Western Music II	3
MUSIC 421	Materials of Theory IV	3
MusPerf 3XX		2
Performance Ensemble		1
Electives or Core Curriculum		7
		<b>Credits</b>
		<b>16</b>

<b>Year 3</b>		
<b>Fall</b>		
MUSIC 310	Introduction to World Musics	3
MUSIC 321	Counterpoint	3
MUSIC 452	Early Music Ensemble	1
MusPerf 3XX		1
Electives or Core Curriculum		6
Choose one Music History elective:		3
		<b>Credits</b>
		<b>17</b>
<b>Spring</b>		
MUSIC 450	Introduction to Musicology	3
MUSIC 452	Early Music Ensemble	1
MusPerf 3XX		2
Electives or Core Curriculum		7
Choose one Music History elective:		3
MUSIC 102	American Popular Music	
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
MUSIC 317	Introduction to American Music	
MUSIC 449	Women in Music:	
MUSIC 680	Special Studies in Music:	
		<b>Credits</b>
		<b>16</b>

<b>Year 4</b>		
<b>Fall</b>		
MUSIC 308	Selected Topics in Music History and Literature:	3
MUSIC 452	Early Music Ensemble	1
MusPerf 3XX		2

<b>Year 4</b>		
<b>Fall</b>		
MUSIC 308	Selected Topics in Music History and Literature:	3
MUSIC 452	Early Music Ensemble	1
MusPerf 3XX		2



Electives or Core Curriculum		8
Choose one Music History elective:		3
MUSIC 102	American Popular Music	
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
MUSIC 317	Introduction to American Music	
MUSIC 449	Women in Music:	
MUSIC 680	Special Studies in Music:	
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
MusPerf 3XX		2
MUSIC 452	Early Music Ensemble	1
Electives or Core Curriculum		7
Choose two of the following:		6
MUSIC 102	American Popular Music	
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
MUSIC 317	Introduction to American Music	
MUSIC 449	Women in Music:	
MUSIC 680	Special Studies in Music:	
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>130</b>

## Undergraduate Admission Requirements

To be considered for the Music BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition or interview. Please visit the Peck School admissions page for more information.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

### Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

### Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

## Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

## Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

## Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

## Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

## Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

## Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

## Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music, BFA: Piano

Our performance programs are led by renowned performing artist faculty. Piano majors take private lessons and master classes, and perform regularly in concerts and recitals.

## Requirements

### University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	Electives Outside Peck School of the Arts	12
	Electives in Peck School of the Arts <sup>4</sup>	12
	Electives Outside Discipline	3
<b>Total Credits</b>		<b>45</b>

- <sup>1</sup> See General Education Requirements (p. 30) for more information.
- <sup>2</sup> Credits may be utilized in required curriculum areas.
- <sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
- <sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

### Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Competencies</b>		
MUSIC 1	Theory Fundamentals	
MUSPERF 1	Fundamentals of Piano:	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>Total Credits</b>		<b>23</b>

### Piano Requirements

Code	Title	Credits
<b>Principal Instrument <sup>5</sup></b>		<b>24</b>
MUSPERF 401	Lessons in Piano	
<b>Performing Organizations <sup>6</sup></b>		<b>6</b>
<b>Accompanying <sup>7</sup></b>		<b>4</b>
MUSIC 259	Accompanying	
<b>Performance Repertoire <sup>8</sup></b>		
MUSIC 275	Keyboard Performance Repertoire	2
MUSIC 276	Keyboard Performance Repertoire	2
<b>Pedagogy</b>		
MUSIC 448	Piano Pedagogy	2
<b>Music Theory Electives</b>		
<i>Complete one of the following:</i>		<b>3</b>
MUSIC 220	Introduction to Computers and Music	
MUSIC 327	Studio Techniques	
MUSIC 323	Instrumental and Choral Orchestration	
MUSIC 680	Special Studies in Music:	
<b>Music History Electives</b>		
<i>Complete one of the following:</i>		<b>3</b>
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
<b>Recital</b>		<b>2</b>
MUSIC 659	Junior Recital	
MUSIC 660	Senior Recital:	
<b>Music Electives</b>		<b>9</b>
<b>General Electives</b>		<b>5</b>
May be taken from any area of the University (including Music) to fulfill requirements		
<b>Total Credits</b>		<b>62</b>

- <sup>5</sup> MusPerf 4XX Principal Instrument (8 semesters minimum; 3 credits each semester) includes Convocation and Masterclass.
- <sup>6</sup> Music XXX Choral Ensemble (2 semesters) and Music XXX (any ensemble with Piano faculty consent; complete 4 credits at 1 credit per semester).
- <sup>7</sup> Enroll in 2 credits of MUSIC 259 for 2 semesters.
- <sup>8</sup> Complete two credits of each: MUSIC 275 and MUSIC 276.

## Plan of Study Recommended Course Sequence

Year 1		Credits
Fall		
MUSIC 106	Foundations of Music	3
MUSIC 123	Aural Theory I	1
MUSIC 127	Materials of Theory I	2
MusPerf 4XX		3
Performance Ensemble		1
Electives or Core Curriculum		6
<b>Credits</b>		<b>16</b>

<b>Spring</b>		
MUSIC 124	Aural Theory II	1
MUSIC 128	Materials of Theory II	3
MusPerf 4XX		3
Performance Ensemble		1
Electives or Core Curriculum		8
<b>Credits</b>		<b>16</b>

<b>Year 2</b>		
<b>Fall</b>		
MUSIC 211	General History of Western Music I	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MusPerf 4XX		2
Performance Ensemble		1
Electives and Core Curriculum		6
<b>Credits</b>		<b>16</b>

<b>Spring</b>		
MUSIC 212	General History of Western Music II	3
MUSIC 421	Materials of Theory IV	3
MusPerf 4XX		2
Performance Ensemble		1
Electives or Core Curriculum		7
<b>Credits</b>		<b>16</b>

<b>Year 3</b>		
<b>Fall</b>		
MUSIC 259	Accompanying	2
MUSIC 275	Keyboard Performance Repertoire	1
MUSIC 353	Conducting	2
MusPerf 4XX		2
Performance Ensemble		1
Electives or Core Curriculum		9
<b>Credits</b>		<b>17</b>

<b>Spring</b>		
MUSIC 276	Keyboard Performance Repertoire	1
MUSIC 310	Introduction to World Musics	3
MUSIC 323	Instrumental and Choral Orchestration	3
MUSIC 659	Junior Recital	0
Performance Ensemble		1
MusPerf 4XX		2
Electives or Core Curriculum		7
<b>Credits</b>		<b>17</b>

<b>Year 4</b>		
<b>Fall</b>		
MUSIC 259	Accompanying	2
MusPerf 4XX		2
Choose one:		3
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
Electives or Core Curriculum		9
<b>Credits</b>		<b>16</b>

<b>Spring</b>		
MusPerf 4XX		2
MUSIC 448	Piano Pedagogy	2
MUSIC 660	Senior Recital:	2
Electives or Core Curriculum		10
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>130</b>

**Performance Ensemble:** Piano majors are required to enroll in a minimum of 6 semesters of ensemble with a minimum of 2 semesters in a choral ensemble and 4 semesters in any ensemble with iani or oragn instructor consent.

**Performance Master Class:** 8 semesters at 1 credit is required as part of your individual lesson obligation.

**0 Credit Courses:** A 1 credit fee will be assessed by the University if a student's course load is less than 12 or greater than 18 credits.

## Undergraduate Admission Requirements

To be considered for the Music BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition or interview. Please visit the Peck School admissions page for more information.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

## Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

## Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

## Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

## Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

## Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

## Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

## Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

## Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;

- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

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## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music, BFA: Strings

Our competitive performance programs are led by renowned performing artist faculty. Students regularly perform as soloists, chamber musicians, and orchestral musicians while earning their degree. They are prepared for modern, multifaceted professional careers as performers and/or teachers. The program offers a thorough grounding in instrumental technique and repertory, and broad and continuous experience in performance.

## Requirements

### University Core

Code	Title	Credits
<b>General Education Requirements</b> <sup>1</sup>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements</i> <sup>1</sup>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6

Cultural Diversity <sup>2</sup>	
<b>Electives</b>	
Electives Outside Peck School of the Arts	12
Electives in Peck School of the Arts <sup>4</sup>	12
Electives Outside Discipline	3
<b>Total Credits</b>	<b>45</b>

<sup>1</sup> See General Education Requirements (p. 30) for more information.

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

<sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

## Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Competencies</b>		
MUSIC 1	Theory Fundamentals	
MUSPERF 1	Fundamentals of Piano:	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>Total Credits</b>		<b>23</b>

## Strings Requirements

Code	Title	Credits
MUSIC 353	Conducting	2
MUSIC 447	String Pedagogy in the Studio	2
<b>Principal Instrument</b> <sup>5</sup>		<b>24</b>
<b>Performing Ensemble</b> <sup>6</sup>		<b>8</b>
MUSIC 182	Symphony Orchestra	
<b>Chamber Music</b> <sup>7</sup>		
MUSIC 361	Ensemble - Piano	1-2
MUSIC 365	Ensemble - Woodwind	1-2
MUSIC 367	Ensemble - Brass	1-2
MUSIC 369	Ensemble - Strings	1-2
MUSIC 370	Chamber Ensemble - Mixed	1-2
MUSIC 561	Advanced Chamber Music	1-3

### Music Theory Electives

<b>Complete one of the following:</b>		<b>3</b>
MUSIC 220	Introduction to Computers and Music	
MUSIC 321	Counterpoint	
MUSIC 323	Instrumental and Choral Orchestration	
MUSIC 327	Studio Techniques	
MUSIC 328	Interactive Electronic Music	
MUSIC 420	Advanced Electronic Music and Sound Art:	
MUSIC 680	Special Studies in Music:	

**Music History Electives**

<b>Complete one of the following:</b>		<b>3</b>
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	

**Recital**

MUSIC 659	Junior Recital	0
MUSIC 660	Senior Recital:	2

**Music Electives** **7**

**General Electives** **5**

May be taken from any area of the University (including Music) to fulfill requirements

**Total Credits** **62**

<sup>5</sup> Enrollment in 400-level primary instrument lessons includes enrollment in both Masterclass and Convocation.

<sup>6</sup> 8 semesters of Orchestra required while concurrently taking studio lessons.

<sup>7</sup> Complete 1-4 credits in MUSIC 361, MUSIC 365, MUSIC 367, MUSIC 369, and/or MUSIC 370; complete 1-4 credits in MUSIC 561.

## Plan of Study Recommended Course Sequence

<b>Year 1</b>		
<b>Fall</b>		<b>Credits</b>
MusPerf 4XX		3
MUSPERF 1	Fundamentals of Piano:	1
MUSIC 106	Foundations of Music	3
MUSIC 123	Aural Theory I	1
MUSIC 127	Materials of Theory I	2
MUSIC 182	Symphony Orchestra	1
Choose one:		1
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 369	Ensemble - Strings	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 561	Advanced Chamber Music	
Electives or Core Curriculum		4
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MusPerf 4XX		3
MUSPERF 1	Fundamentals of Piano:	1
Electives or Core Curriculum		6

MUSIC 182	Symphony Orchestra	1
MUSIC 124	Aural Theory II	1
MUSIC 128	Materials of Theory II	3
Choose one:		1
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 369	Ensemble - Strings	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 561	Advanced Chamber Music	

**Credits** **16**

**Year 2**  
**Fall**

MusPerf 4XX		3
Electives or Core Curriculum		4
MUSIC 182	Symphony Orchestra	1
MUSIC 211	General History of Western Music I	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
Choose one:		1
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 369	Ensemble - Strings	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 561	Advanced Chamber Music	

**Credits** **16**

**Spring**

MusPerf 4XX		3
Electives or Core Curriculum		5
MUSIC 182	Symphony Orchestra	1
MUSIC 211	General History of Western Music I	3
MUSIC 421	Materials of Theory IV	3
Choose one:		1
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 369	Ensemble - Strings	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 561	Advanced Chamber Music	

**Credits** **16**

**Year 3**

<b>Fall</b>		
MusPerf 4XX		3
MUSIC 182	Symphony Orchestra	1
MUSIC 369	Ensemble - Strings	1
or MUSIC 370	or Chamber Ensemble - Mixed	
Electives or Core Curriculum		12

**Credits** **17**

**Spring**

MusPerf 4XX		3
MUSIC 182	Symphony Orchestra	1
MUSIC 659	Junior Recital	0
Choose one:		1
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 369	Ensemble - Strings	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 561	Advanced Chamber Music	

Choose one Music History elective: **3**

MUSIC 308	Selected Topics in Music History and Literature:	
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MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
MUSIC 611	Music of the Medieval Era	
MUSIC 612	Music of the Renaissance and Early Modern Era	
Choose one Music Elective:		2
MUSIC 353	Conducting	
MUSIC 447	String Pedagogy in the Studio	
MUSIC 561	Advanced Chamber Music	
Electives or Core Curriculum		7
<b>Credits</b>		<b>17</b>
<b>Year 4</b>		
<b>Fall</b>		
MusPerf 4XX		3
MUSIC 182	Symphony Orchestra	1
Choose one:		1
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 369	Ensemble - Strings	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 561	Advanced Chamber Music	
Electives or Core Curriculum		11
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MusPerf 4XX		3
MUSIC 182	Symphony Orchestra	1
MUSIC 660	Senior Recital:	2
Electives or Core Curriculum		9
Choose one:		1
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 369	Ensemble - Strings	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 561	Advanced Chamber Music	
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>130</b>

## Undergraduate Admission Requirements

To be considered for the Music BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition or interview. Please visit the Peck School admissions page for more information.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

### Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped

from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

### Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

### Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

### Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

### Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

### Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and



- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

## Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

## Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

## Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)

- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music, BFA: Versatile Voice

The market for professional singers is changing—opera singers are performing in musicals, Broadway performers are singing operas, and pop singer training is improving dramatically. UWM is out in front of these changes with our BFA: Versatile Voice, a program that is broad enough to cover many genres and flexible enough to reflect each student's interest.

## Requirements

### Required Core

Code	Title	Credits
<b>General Education Requirements<sup>1</sup></b>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements<sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> See General Education Requirements (p. 29) for more information.

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

### Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Competencies</b>		
MUSIC 1	Theory Fundamentals	
MUSPERF 1	Fundamentals of Piano:	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 310	Introduction to World Musics	3
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3

MUSIC 212	General History of Western Music II	3
<b>Total Credits</b>		<b>26</b>

### Versatile Voice Requirements

Code	Title	Credits
MUSIC 604	Business for Performing Artists	3
DANCE 111	Ballet I	3
or DANCE 115	Jazz Dance I	
DANCE 321	Alexander Technique for the Performer	3
DANCE 327	Dance for the Musical Theatre I	3
MUSIC 245	Basic and Italian Lyric Diction	1
MUSIC 246	German and French Lyric Diction	1
MUSIC 310	Introduction to World Musics	3
MUSIC 444	Vocal Pedagogy I	2
MUSIC 457	Opera Theatre <sup>1</sup>	0-3
MUSIC 520	Voice Performance in Popular Music Styles	2
THEATRE 101	Acting for Non-majors	3
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 408	Acting in Musical Theatre	3
<b>Principal Instrument</b>		<b>24</b>
MUSPERF 411	Lessons in Voice	
<b>Foreign Language Requirement</b>		
ITALIAN 103	First-Semester Italian	4
<b>Lessons in Piano</b>		<b>2</b>
MUSPERF 101	Lessons in Piano	
<b>Performing Ensemble<sup>2</sup></b>		<b>8</b>
<i>Complete 4-8 credits:</i>		
MUSIC 44	Alta Voce Singers	
MUSIC 50	Kameraden Chorus	
MUSIC 52	Bella Voce	
MUSIC 56	Concert Chorale	
<i>Choose up to 4 credits of the following:</i>		
MUSIC 457	Opera Theatre	
THEATRE 475	Rehearsal and Performance:	
<b>Music Theory Electives</b>		<b>3</b>
<i>Choose one of the following:</i>		
MUSIC 220	Introduction to Computers and Music	
MUSIC 321	Counterpoint	
MUSIC 323	Instrumental and Choral Orchestration	
MUSIC 327	Studio Techniques	
MUSIC 328	Interactive Electronic Music	
MUSIC 420	Advanced Electronic Music and Sound Art:	
MUSIC 680	Special Studies in Music:	
<b>Music History Electives</b>		<b>3</b>
<i>Choose one of the following:</i>		
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
MUSIC 317	Introduction to American Music	

### Recital

MUSIC 659	Junior Recital	
MUSIC 660	Senior Recital:	
<b>General Electives</b>		<b>6</b>
May be taken from any area of the University (including Music) to fulfill requirements		
<b>Total Credits</b>		<b>86</b>

<sup>1</sup> Students enroll in MUSIC 457 for a total of 6 credits.

<sup>2</sup> Full time students must enroll in one ensemble each semester.

## Undergraduate Admission Requirements

To be considered for the Music BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition or interview. Please visit the Peck School admissions page for more information.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

### Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

### Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

### Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

### Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

## Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

## Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

## Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

## Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;

- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

## Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

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Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music, BFA: Voice

The charge of the Voice Area is to teach skills for future success in music, to offer solid vocal technique and knowledge of vocal health. This training is built upon a foundation of history, theory, and a varied repertoire of vocal music. A spirit of genuine collaboration both within and outside of the voice area offers experiences in many musical styles, fostering future performers, pedagogues and leaders in the arts.

## Requirements

### University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	

**Electives**

Electives Outside Peck School of the Arts	12
Electives in Peck School of the Arts <sup>4</sup>	12
Electives Outside Discipline	3
<b>Total Credits</b>	<b>45</b>

- <sup>1</sup> See General Education Requirements (p. 30) for more information.
- <sup>2</sup> Credits may be utilized in required curriculum areas.
- <sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.
- <sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

**Music BFA Requirements**

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Competencies</b>		
MUSIC 1	Theory Fundamentals	
MUSPERF 1	Fundamentals of Piano:	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>Total Credits</b>		<b>23</b>

**Voice Requirements**

Code	Title	Credits
MUSIC 245	Basic and Italian Lyric Diction	1
MUSIC 246	German and French Lyric Diction	1
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	2
MUSIC 378	Song Literature II: United States and Select European Countries	2
MUSIC 444	Vocal Pedagogy I	2
MUSIC 445	Vocal Pedagogy II	2
MUSIC 457	Opera Theatre	3
<b>Principal Instrument</b>		<b>24</b>
MUSPERF 411	Lessons in Voice <sup>5</sup>	
<b>Foreign Language Requirement <sup>6</sup></b>		
<b>Lessons in Piano <sup>7</sup></b>		
MUSPERF 101	Lessons in Piano	2

**Performing Ensemble <sup>8</sup> 8**

MUSIC 44	Alta Voce Singers
MUSIC 50	Kameraden Chorus
MUSIC 52	Bella Voce
MUSIC 56	Concert Chorale

**Music Theory Electives**

<i>Choose one of the following:</i>		3
MUSIC 220	Introduction to Computers and Music	
MUSIC 321	Counterpoint	
MUSIC 323	Instrumental and Choral Orchestration	
MUSIC 327	Studio Techniques	
MUSIC 328	Interactive Electronic Music	
MUSIC 420	Advanced Electronic Music and Sound Art:	
MUSIC 680	Special Studies in Music:	

**Music History Electives**

<i>Choose one of the following:</i>		3
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	

**Recital**

MUSIC 659	Junior Recital	0
MUSIC 660	Senior Recital:	2

**Music Electives 2**

**General Electives 5**

May be taken from any area of the University (including Music) to fulfill requirements

**Total Credits 62**

- <sup>5</sup> Principal Instrument: Enrollment in 400-level Primary Instrument Lessons includes enrollment in both Colloquium and Convocation. 8 semesters of study.
- <sup>6</sup> Two languages required at Level I and Level II chosen between German, French or Italian. These are counted as being part of the 45 credits of General Education taken by students and/or as General Electives.
- <sup>7</sup> Required audition for Piano Proficiency placement. 2 semesters if placement at 100 level. Those placed at the 200 level place out of Piano requirement but can take 200 level lessons as Electives.
- <sup>8</sup> Required to take 8 semesters of choir while concurrently taking studio lessons.

**Undergraduate Admission Requirements**

To be considered for the Music BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition or interview. Please visit the Peck School admissions page for more information.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1

in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

## Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

## Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

## Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

## Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

## Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

## Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization.

The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;

- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

## Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

## Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;
- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

## Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

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Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive

all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music, BFA: Winds, Brass, and Percussion

The BFA: Winds, Brass, and Percussion program is designed to prepare students for professional performing careers and studio teaching. The goal of the program is to graduate students who are expert performers and knowledgeable music scholars. Students take private lessons and master classes; and perform solo recitals, chamber music, orchestral music, and wind band music while working on their degrees.

## Requirements

### University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies</i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	Electives Outside Peck School of the Arts	12
	Electives in Peck School of the Arts <sup>4</sup>	12
	Electives Outside Discipline	3
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> See General Education Requirements (p. 30) for more information.

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> OWC Part A and QL Part A should be completed within the first two semesters of pursuing a Music program.

<sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

### Music BFA Requirements

The minimum number of credits required to complete the Bachelor of Fine Arts is 130. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

Code	Title	Credits
<b>Music Department Competencies</b>		
MUSIC 1	Theory Fundamentals	

MUSPERF 1	Fundamentals of Piano:	
<b>Music Theory</b>		
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
MUSIC 421	Materials of Theory IV	3
<b>Music History</b>		
MUSIC 106	Foundations of Music	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
<b>Total Credits</b>		<b>23</b>

### Winds, Brass, and Percussion Requirements

Code	Title	Credits
<b>Principal Instrument</b> <sup>5</sup> <b>24</b>		
<b>Performance Ensemble</b> <b>8</b>		
<b>Chamber Music</b> <b>3</b>		
<i>Complete 3 credits of the following:</i>		
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 369	Ensemble - Strings	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 561	Advanced Chamber Music	
MUSIC 321	Counterpoint	3
<b>Conducting</b>		
MUSIC 353	Conducting	2
MUSIC 354	Instrumental Conducting	2
<b>Music Theory Electives</b> <b>3</b>		
<i>Complete one of the following:</i>		
MUSIC 323	Instrumental and Choral Orchestration	
MUSIC 220	Introduction to Computers and Music	
MUSIC 327	Studio Techniques	
MUSIC 328	Interactive Electronic Music	
MUSIC 420	Advanced Electronic Music and Sound Art:	
MUSIC 680	Special Studies in Music:	
<b>Music History Electives</b> <b>3</b>		
<i>Complete one of the following:</i>		
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
<b>Recital</b>		
MUSIC 659	Junior Recital	0
MUSIC 660	Senior Recital:	2
<b>Music Electives</b> <b>7</b>		
<b>General Electives</b> <b>5</b>		

May be taken from any area of the University (including Music) to fulfill requirements

**Total Credits** **62**

<sup>5</sup> Eight semesters of Music Performance at 400 level, includes registration in both Masterclass and Convocation.

## Plan of Study Recommended Course Sequence

Year 1		Credits
<b>Fall</b>		
MusPerf 4XX		3
MUSPERF 1	Fundamentals of Piano:	1
Performance Ensemble Requirement:		1
MUSIC 30	University Community Band	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
MUSIC 106	Foundations of Music	3
MUSIC 123	Aural Theory I	1
MUSIC 127	Materials of Theory I	2
Electives or Core Curriculum		5
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MusPerf 4XX		3
MUSPERF 1	Fundamentals of Piano:	1
Performance Ensemble Requirement:		1
MUSIC 30	University Community Band	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
MUSIC 124	Aural Theory II	1
MUSIC 128	Materials of Theory II	3
Electives or Core Curriculum		7
<b>Credits</b>		<b>16</b>
<b>Year 2</b>		
<b>Fall</b>		
MusPerf 4XX		3
Performance Ensemble Requirement:		1
MUSIC 30	University Community Band	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
MUSIC 211	General History of Western Music I	3
MUSIC 225	Materials of Theory III	3
MUSIC 226	Aural Theory III	1
Electives or Core Curriculum		5
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MusPerf 4XX		3
Performance Ensemble Requirement:		1
MUSIC 30	University Community Band	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
MUSIC 212	General History of Western Music II	3
MUSIC 421	Materials of Theory IV	3
Electives or Core Curriculum		6
<b>Credits</b>		<b>16</b>



<b>Year 3</b>		
<b>Fall</b>		
MusPerf 4XX		3
MUSIC 321	Counterpoint	3
MUSIC 353	Conducting	2
Performance Ensemble Requirement:		1
MUSIC 30	University Community Band	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
Chamber Ensemble Requirement:		1
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 369	Ensemble - Strings	
MUSIC 561	Advanced Chamber Music	
Electives or Core Curriculum		7
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
MusPerf 4XX		3
MUSIC 354	Instrumental Conducting	2
MUSIC 659	Junior Recital	0
Electives or Core Curriculum		7
Performance Ensemble Requirement:		1
MUSIC 30	University Community Band	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
Chamber Ensemble Requirement:		1
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 561	Advanced Chamber Music	
Choose one Music History Elective:		3
MUSIC 308	Selected Topics in Music History and Literature:	
MUSIC 310	Introduction to World Musics	
MUSIC 311	Music of the Baroque Era	
MUSIC 312	Music of the Classic Era	
MUSIC 313	Music of the Romantic Era	
MUSIC 314	Music since 1900	
<b>Credits</b>		<b>17</b>
<b>Year 4</b>		
<b>Fall</b>		
MusPerf 4XX		3
Electives or Core Curriculum		11
Performance Ensemble Requirement:		1
MUSIC 30	University Community Band	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
Chamber Performance Requirement:		1
MUSIC 361	Ensemble - Piano	
MUSIC 365	Ensemble - Woodwind	
MUSIC 367	Ensemble - Brass	
MUSIC 369	Ensemble - Strings	
MUSIC 370	Chamber Ensemble - Mixed	
MUSIC 561	Advanced Chamber Music	
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
MusPerf 4XX		3
MUSIC 660	Senior Recital:	2

MUSIC 323	Instrumental and Choral Orchestration	3
or MUSIC 421	or Materials of Theory IV	
Electives or Core Curriculum		7
Performance Ensemble Requirement:		1
MUSIC 30	University Community Band	
MUSIC 40	Symphony Band	
MUSIC 42	Wind Ensemble	
MUSIC 182	Symphony Orchestra	
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>130</b>

## Undergraduate Admission Requirements

To be considered for the Music BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition or interview. Please visit the Peck School admissions page for more information.

Pre-Music Education majors must audition for the certification program with the Music Education Area, while enrolled in MUS ED 350, preferably in their fourth semester.

Students accepted through auditions who lack basic aural, theory, and/or keyboard skills must successfully complete MUSIC 1 and/or MUSPERF 1 in their first year of study. A final grade of B or higher is required to enroll in the subsequent Music Theory and Piano courses.

## Provisional

Students declared Provisional at the time of auditions could achieve Music major status based on the successful Jury performance at the end of the first semester. Students not performing a successful first semester jury will not be allowed to continue as a Music major and will be dropped from the Music department. Provisional students must take all required first-semester Music courses during the provisional semester.

## Probation

A Music major who has a studio performance grade of C or lower for two consecutive semesters may be placed on Music Department Probation. (2.75 GPA is required for continuation in the Music Education degree program.) Cleared Probation: Either re-audition or a passing grade for the performance lessons and final Jury is attained during the semester of probation and a cumulative GPA of 2.0 or above.

## Not Accepted

Prospective students not accepted at their initial audition are allowed one additional audition opportunity.

## Re-Audition

Required after an absence of two consecutive semesters from the UWM Music Department as a Music major actively progressing toward degree. The returning student must successfully re-audition in their principal area. The Music Education major must re-audition in their principal area and re-interview with the Music Education faculty.

## Degree Requirements

All Music curricula for the BFA require 125-130 credits, distributed as follows: music courses as specified in each curriculum: 75-80 credits; core curriculum: 45 credits; general electives: 0-9 credits. The BA in Music requires 120 credits, distributed as follows: music courses, 48 credits; core curriculum, 45 credits; general electives, 27 credits.

## Performance Ensemble Requirement

All Music majors are required to participate in performing organizations during the course of their study. All Performance and Music Education majors must be registered in an approved major performing organization concurrent with each semester of private study. The director of bands, the director of choral activities, and the director of orchestras make ensemble assignments at the beginning of each semester. Only one approved ensemble credit per semester can apply toward degree requirements. For the purpose of fulfilling the Performance Ensemble requirement, the Department of Music recognizes the following approved major performing Ensembles: University Advanced Women's Choir, Concert Chorale, Women's Chorus, University Men's Chorus, University Band, Symphony Band, Wind Ensemble, Jazz Band, Symphony Orchestra, and University Community Orchestra. (Other performance ensembles may be approved in certain degree programs; see individual degree programs below for specific requirements in each area.)

## Performance Ensemble Requirement for Transfer Students

Credits from an accredited college/university for performing organizations may be granted as follows:

- All transfer students to UWM, regardless of entry level, must take at least two semesters of an approved major performing organization. The performing organization must conform to the individual degree requirements: instrumentalists take band or orchestra, vocalists take choral ensembles;
- Entering sophomores with 30 or more earned credits may only transfer up to two completed semesters of an approved performing organization from another university; and
- Entering juniors with 60 or more earned credits may only transfer up to four completed semesters of an approved performing organization from another university.

## Recital Attendance and Music Convocation Requirements

All Music majors must attend weekly Music Convocation meetings for a minimum of five semesters. All students entering the Music Department as freshmen are required to take one semester of MUSIC 106 during their freshman year.

All Music majors, excluding transfer students and second degree candidates, must earn 80 recital attendance credits for graduation. This requirement may be met by attending:

- Campus recitals (one attendance credit per recital),
- Weekly departmental Music Convocation (five attendance credits per semester), and
- Off-campus recitals (one attendance credit per recital to a maximum of three per semester).

Transfer students and second degree candidates must earn 10 recital credits (including weekly Music Convocation) for each semester on the UWM campus, to a total of 80, or until the completion of the degree.

## Music Performance Course Enrollment Requirements

The study of music performance in private lessons, master classes, and seminars is governed by four special conditions:

- Performance courses (lessons) cannot be dropped after the second week of each semester;

- Eligibility for undergraduate Music major private lessons requires a minimum of 4 credits in Music Department courses. Only one ensemble credit can be applied to the 4-credit minimum;
- All Music majors are required to enroll in an approved ensemble concurrent with each semester of Performance lessons; and
- Students enrolled in Music Performance lessons at the 200 level or above must enroll in the appropriate Performance Master Class. Music Education Majors are not required to take Performance Master Class, but may enroll in Performance Master Class as music electives.

## Music Theory and History Requirements

The Music Theory core comprises a three-semester sequence of Materials of Theory concurrently with three semesters of Aural Theory. This is followed by a semester of Form Analysis. The Music History core comprises a three-semester sequence of the General History of Western Music. Additional Music Theory and Music History courses are required in all Music degree programs. See individual programs for details.

## Laptop Requirement

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## Advising

**Location:** Theatre 120

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## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

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## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Music, Minor

Students enroll in a required music theory and music history core. Music minors choose from a wide array of music electives in order to create programs uniquely matched to their interests. Students choosing private lessons must audition either at a scheduled audition day, at ensemble auditions, or with Music Department area heads and be admitted to lessons at the discretion of the instructor and area head. Please note that the Minor in Music does not meet the Wisconsin Department of Instruction requirements for Music Education licensure.

## Requirements

Students must complete at least 22 credits to receive the Minor in Music. Students must complete a minimum of 12 credits at UWM:

Code	Title	Credits
<b>Music Theory</b> <sup>1</sup>		<b>5-7</b>
MUSIC 1 & 123 & 127	Theory Fundamentals and Aural Theory I and Materials of Theory I	5
or		

MUSIC 123 & MUSIC 124 & MUSIC 127 & MUSIC 128	Aural Theory I and Aural Theory II and Materials of Theory I and Materials of Theory II	7
<b>Music History</b>		<b>6</b>
MUSIC 100	Introduction to Classical Music	
MUSIC 102	American Popular Music	
MUSIC 211	General History of Western Music I	
MUSIC 212	General History of Western Music II	
MUSIC 307	General History of Western Music III	
MUSIC 310	Introduction to World Musics	
<b>Electives</b> <sup>2</sup>		<b>9-11</b>

Complete 9-11 credits from any area of Music. May include ensembles, lessons, performance practice, or additional theory and history coursework. Students enrolled in a private lesson must also simultaneously enroll in a performance ensemble.

<sup>1</sup> The Music Theory Placement exam is optional. The exam determines whether a student will start the theory track with MUSIC 1 or MUSIC 123. Students who do not take the exam will be required to complete the Theory Fundamentals track.

<sup>2</sup> **Elective Lesson Options:** Lessons are not required for the music minor. However, students may take up to four elective credits of lessons. Concurrent enrollment in a large ensemble is required. Lessons are available per successful ensemble audition.  
**Elective Ensemble Options:** Ensembles may be repeated for credit. Students may enroll in the same music ensemble for multiple semesters (up to 8 total and dependent upon audition), and each semester of enrollment fulfills one credit towards the minor. Audition required.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

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For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Music, MM/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### MLIS/MM Music (Music History and Literature concentration only)

The coordinated degree program (54 credits) prepare students in the Music History and Literature concentration for positions as music librarians.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their

first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tponoonan@uwm.edu](mailto:tponoonan@uwm.edu), 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

### Additional Requirements

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The

following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 30 graduate credits, 27 of which must be in specified music areas, 3 of which may be in one of the other areas or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 450	Introduction to Musicology	3
MUSIC 452	Early Music Ensemble (1 credit each for two semesters)	2
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 911	Seminar In Musicology I	3
MUSIC 990	Research of Thesis	3
<b>Electives</b>		
Music History		6
Other Areas of Music		1
Select one of the following:		3-30
3 credits of General Electives (UG or G)		
30 credits in Library Science if M.M./MLIS major		
<b>Total Credits</b>		<b>30-57</b>

The program must also include:

- MUSIC 314, if not previously completed.
- Reading knowledge of German, French or Italian (see below for specific details).

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	12
INFOST 511	Organization of Information	
INFOST 571	Information Access and Retrieval	
INFOST 799	Research Methods in Information Studies	
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Music, MM: Chamber Music Performance

This concentration is designed for the instrumentalist who is admitted by audition to the Institute of Chamber Music at UW-Milwaukee. The major focus of the Institute of Chamber Music is to provide professional training experiences in the performance of chamber repertoire through well-matched chamber ensembles from duos through large chamber ensembles. The student who successfully completes 24 specified credits and the recital requirement receives a Performer's Certificate from the Institute; the student who successfully completes 33 specified credits

and the other degree requirements receives a Master of Music with a concentration in Chamber Music Performance.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must

submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 33 credits. Each student follows an integrated curriculum in which all subjects are related and no course is optional.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music <sup>1</sup>	3
MUSIC 711	Graduate Seminar in Music History: <sup>1</sup>	3
MUSIC XXX	Graduate Theory Elective <sup>1</sup>	3
<i>Select the following for 1 credit each for 4 semesters:</i>		4
MUSIC 806	Chamber Music Master Class	
<i>Select the following for 2 credit each for 4 semesters:</i>		8
MUSIC 835	Chamber Music Coaching	
<b>Group Recital Requirement <sup>2</sup></b>		
<i>Select the following for 1 credit each for 4 semesters:</i>		4
MUSPERF 855	Instrumental Master Class	
<i>Select the following for 2 credit each for 4 semesters:</i>		8
MUSPERF 8XX	Performance (Instrument Lessons)	
<b>Total Credits</b>		<b>33</b>

<sup>1</sup> Not required in Performer's Certificate.

<sup>2</sup> Met at end of program.

## Additional Requirements

Students in the Institute of Chamber Music are admitted for a two-year program of study. Students are either part of an existing chamber group before entrance or, when admitted, assigned to a group. If the first-year group does not continue for a second year, the student must re-audition for membership in a new or reconstituted group that is acceptable to the faculty in order to continue for a second year of study.

At the end of the first year, each student's performance is judged by the Director of the Institute in consultation with the members of the ICM advisory committee. If a student does not meet the required performance level, the student is prevented from continuing in the Institute for a second year. The student may, if acceptable to the Department graduate faculty, choose to follow another graduate program in the Department.

The student who successfully completes 24 specified credits and the recital requirement receives a Performer's Certificate from the Institute; the student who successfully completes 33 specified credits and the other degree requirements receives a Master of Music with a concentration in Chamber Music Performance

### Thesis Recital

The recital should be given no sooner than the final semester of coursework. The student ensemble must present a program which has been approved by the Graduate Committee and by the Director of the Institute of Chamber Music. This requirement applies both to candidates for the MM in Chamber Music Performance and to the student working toward the Performer's Certificate.

### Comprehensive Examination

Comprehensive examinations in both music history and music theory will be required of each student in the MM in Chamber Music Performance concentration. This requirement normally follows successful completion of a recital requirement. Comprehensives are not required of students seeking the Performer's Certificate.

### Time Limit

The student must complete all degree or certificate requirements within four years of initial enrollment.

## Music, MM: Collaborative Piano: Instrumental

This concentration is designed for the music student with an undergraduate degree in piano who wishes to specialize as a collaborative pianist in instrumental repertoire. A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Applicant proposing concentration in Music Performance Collaborative Piano: Instrumental must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic

exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tpnoonan@uwm.edu](mailto:tpnoonan@uwm.edu), 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course

in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be in another music area, and 2 of which may be in one of the other areas or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 990	Research of Thesis (Recital)	3
<b>Performance</b>		
<i>Select the following for 2 credits each for 4 semesters:</i>		8
MUSPERF 704	Collaborative Piano: Instrumental	
<i>Select the following for 1 credit each for 4 semesters:</i>		4
MUSPERF 706	Sonatas, Piano and String	
<b>Répertoire</b>		
MUSIC 755	Advanced Instrumental Répertoire I: Strings	2
MUSIC 757	Advanced Instrumental Répertoire I: Brass and Woodwinds	2
<b>Electives</b>		
Music		2
General		2
<b>Total Credits</b>		<b>32</b>

The program must also include 3 credits in MUSIC 314, if not previously completed.

## Additional Requirements

### Recital

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee of the Department of Music, and the student must present a satisfactory recital audition before the recital may be scheduled.

### Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Music, MM: Collaborative Piano: Vocal

This concentration is designed for the music student with an undergraduate degree in piano who wishes to specialize as a collaborative pianist in the vocal repertoire.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.



A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will

be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be in another music area, and 2 of which may be in one of the other areas or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 990	Research of Thesis (Recital)	3
<b>Performance</b>		
<i>Select the following for 2 credits each for 4 semesters:</i>		8
MUSPERF 703	Collaborative Piano-Vocal	
<i>Select the following for 1 credit each for 4 semesters:</i>		4
MUSPERF 705	Techniques of Opera Coaching and Accompanying	
<b>Répertoire</b>		
MUSIC 753	Advanced Song Literature I	2
MUSIC 754	Advanced Song Literature II	2
<b>Electives</b>		
Music		2
General		2
<b>Total Credits</b>		<b>32</b>

The program must also include 3 credits in MUSIC 314, if not previously completed.

For Vocal Collaborative majors: proficiency in French, German, and Italian diction is determined through a reading of song and aria texts for collaborative and voice faculties. Students whose diction skills are deficient are required to enroll in the appropriate course without degree credit. Completion of the course with a grade of B or better satisfies the deficiency.

## Additional Requirements

### Recital

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee of the Department of Music, and the student must present a satisfactory recital audition before the recital may be scheduled.

### Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

## Music, MM: Conducting: Choral Emphasis

This concentration is designed primarily for the student with an undergraduate degree in music education or performance who wishes to pursue advanced training in Conducting: Choral Emphasis plus related studies in music performance and allied areas. A student must successfully pass an audition that demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

Applicant proposing concentration in Music Performance Conducting: Choral Emphasis must demonstrate outstanding performance and conducting skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

A student must successfully pass an audition which demonstrates an advanced level of conducting skill to qualify for admission to

the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tponoonan@uwm.edu](mailto:tponoonan@uwm.edu), 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with

a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Choral Conducting students will take the UWM Basic Diction MUS ED 249 Final Exam upon entrance into the MM degree program. If deficiencies are found, students will take MUS ED 249 as a prerequisite course that will not count toward earned degree credits.

Minimum degree requirement is 31 graduate credits, 29 of which must be in specified music areas, 2 of which may be in one of the other areas or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 732	Score Reading	3
MUSIC 990	Research of Thesis (Public Performance)	3
<b>Conducting</b>		
MUSIC 769	Graduate Choral Conducting I	2
MUSIC 770	Graduate Choral Conducting II	2
MUSIC 771	Graduate Choral Conducting III	2
<b>Literature</b>		
<i>Select one of the following:</i>		3
MUSIC 559	The Wind Band: Its History and Literature	
MUSIC 715	Choral Literature	
MUSIC 799	Advanced Independent Work (Orchestral Literature)	
<b>Performance <sup>1</sup></b>		
<i>1 credit each for 2 semesters:</i>		2
MUSIC XXX	Private Lessons	
<b>Ensemble <sup>2</sup></b>		
<i>1 credit each for 3 semesters</i>		3
MUSIC XXX	Ensemble	
<b>Electives</b>		
General		2
<b>Total Credits</b>		<b>31</b>

<sup>1</sup> Students in the MM Choral Conducting emphasis must take MUSPERF 911 to satisfy the Performance requirement, and must take MUSIC 444 (previously 446).

<sup>2</sup> Ensemble will be assigned upon audition.

The program must also include MUSIC 314, if not previously completed.

## Additional Requirements

### Thesis (Public Performance)

The student must present a recital demonstrating conducting abilities. Performance of literature from a variety of style periods, including a twentieth-century composition by an American composer, should be

included. The proposed program must be approved by the Graduate Committee before the recital may be scheduled. Candidates must also prepare a written document, following all procedures as dictated by the Graduate Committee, in consultation with their main advisor. (The student should consult with the primary faculty advisor for individual area guidelines.)

### Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the thesis requirement.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Music, MM: Conducting: Instrumental

This concentration is designed primarily for the student with an undergraduate degree in music education or performance who wishes to pursue advanced training in Conducting: Instrumental plus related studies in music performance and allied areas. A student must successfully pass an audition that demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

Applicant proposing concentration in Music Performance Conducting: Instrumental must demonstrate outstanding performance and conducting skills. An on-site audition is required; in extreme cases, recorded examples of an applicant’s performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master’s degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of “B” or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

A student must successfully pass an audition which demonstrates an advanced level of conducting skill to qualify for admission to the program. Students may also have to pass other audition(s) in performance area(s), depending on their focus.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tpnoonan@uwm.edu](mailto:tpnoonan@uwm.edu), 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1

MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 31 graduate credits, 29 of which must be in specified music areas, 2 of which may be in one of the other areas or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 732	Score Reading	3
MUSIC 990	Research of Thesis (Public Performance)	3
<b>Conducting</b>		
MUSIC 553	Advanced Conducting I	2
MUSIC 554	Advanced Conducting II	2
MUSIC 772	Advanced Instrumental Conducting	2
<b>Literature</b>		
<i>Select one of the following:</i>		3
MUSIC 559	The Wind Band: Its History and Literature	
MUSIC 715	Choral Literature	
MUSIC 799	Advanced Independent Work (Orchestral Literature)	
<b>Performance</b>		
<i>1 credit each for 2 semesters</i>		2
MUSIC XXX	Private Lessons	
<b>Ensemble</b> <sup>1</sup>		
<i>1 credit each for 3 semesters</i>		3
MUSIC XXX	Ensemble	
<b>Electives</b>		
General		2
<b>Total Credits</b>		<b>31</b>

<sup>1</sup> Ensemble will be assigned upon audition.

The program must also include MUSIC 314, if not previously completed.

## Additional Requirements

### Thesis (Public Performance)

The student must present a recital demonstrating conducting abilities. Performance of literature from a variety of style periods, including a twentieth-century composition by an American composer, should be included. The proposed program must be approved by the Graduate Committee before the recital may be scheduled. Candidates must also prepare a written document, following all procedures as dictated by the Graduate Committee, in consultation with their main advisor. (The student should consult with the primary faculty advisor for individual area guidelines.)

### Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the thesis requirement.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Music, MM: Music Education

This concentration is designed for practicing music educators who wish to advance their knowledge and skills in both music and music pedagogy. An undergraduate degree in music education is required with two years teaching experience in a school setting. The program is intended to build on the student's understanding of teaching pedagogy in any area of music education (general, choral or instrumental), strengthen the philosophical underpinnings of that teaching, bring to light opportunities for action research within a school setting, and provide additional areas of exploration including applied instrumental or vocal study, conducting technique, music theory and music history.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicant must have an undergraduate degree in music education with certification and teaching experience, except by special permission.

Applicant should contact faculty in the Music Education area to inquire about other entrance requirements.

An audition is required only if the applicant plans to take performance lessons at the 700 level, or if an audition is required for acceptance into an emphasis program (instrumental conducting or choral conducting).

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tpnoonan@uwm.edu](mailto:tpnoonan@uwm.edu), 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 30 graduate credits.

Code	Title	Credits
<b>Specific Requirements</b>		
MUS ED 710	Research in Music Education	3
MUSIC 711	Graduate Seminar in Music History	3
MUSIC XXX	Graduate Theory Elective	3
MUS ED 777	Foundations of Music Education	3
MUS ED 778	Recent Developments in Music Education	3
MUS ED 990	Thesis or Final Project	3
<b>Electives</b>		
Music Education		7
Music Performance, Conducting, Theory, Music History, or related areas		5
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Thesis or Final Project

A formal written thesis, lecture/recital, composition with pedagogical intent and analysis, major annotated bibliography, curriculum synthesis, or other type of music education project is required. The student must submit a written proposal to the major advisor to be approved by the Graduate Committee prior to registration.

### Examination in the Major

The student must pass a final written examination in music and music education. This exam will reflect the nature of the student's program of studies. Further questions concerning the exam should be directed toward the student's major advisor.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Music, MM: Music History and Literature

This concentration is designed primarily for students who wish to do advanced study in music history and literature. For some students, the degree is a terminal degree (for example, music teachers who may wish to pursue graduate work in music history rather than in music education), while for others it serves as preparation for the study of musicology at the doctoral level.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicant must have a reading knowledge of a language other than English, preferably German.

Applicant must submit two examples of written work (essays, research papers).

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student

may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 30 graduate credits, 27 of which must be in specified music areas, 3 of which may be in one of the other areas or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 450	Introduction to Musicology	3
MUSIC 452	Early Music Ensemble (1 credit each for two semesters)	2
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 911	Seminar In Musicology I	3
MUSIC 990	Research of Thesis	3
<b>Electives</b>		
Music History		6
Other Areas of Music		1
Select one of the following:		3-30
3 credits of General Electives (UG or G)		
30 credits in Library Science if M.M./MLIS major		
<b>Total Credits</b>		<b>30-57</b>

The program must also include:

- MUSIC 314, if not previously completed.
- Reading knowledge of German, French or Italian (see below for specific details).

## Additional Requirements

### Language Requirement

Candidates for the Master of Music degree with a concentration in Music History and Literature must demonstrate a reading knowledge of German, French, or Italian. The examiner, a member of the music history faculty, will choose several paragraphs totaling approximately 500 words taken from a suitable book or periodical article approved by the advisor, and dealing with a musical topic, and ask for a written translation. The candidate may use a dictionary. The results of the test will be communicated by the examiner to the Music History and Literature area Chair. Candidates failing the exam the first time may take it a second time, provided an appropriate interval has elapsed.

### Thesis

The student must submit an acceptable thesis or thesis equivalent, which must be read and approved by both the student's thesis advisor and a second reader belonging to the Graduate Faculty. Appropriate thesis equivalents may be:

1. Two revised or expanded seminar papers totaling between 30 and 40 pages of text; or
2. One revised or expanded seminar paper, plus one of the following:
  - A comprehensive review essay of an edition or major musical monograph.
  - A concentrated study of the life and work of a musician or musical scholar.

### Comprehensive Examination

The student must pass final written comprehensive examinations in both music history and music theory.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Music, MM: Performance: Guitar**

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill. The student may specialize in either classical, finger-style, or jazz guitar. A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Applicant proposing concentration in Music Performance Guitar must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

**Admission Requirements****Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

**Admission**

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tpnoonan@uwm.edu](mailto:tpnoonan@uwm.edu), 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

**Credits and Courses**

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course



in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives and 2 of which may be in another area or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 990	Research of Thesis	3
<b>Performance</b>		
MUSPERF 7XX	Performance Credits	12
<b>Advanced Performance Repertoire</b>		
MUSIC 765	Advanced Instrumental Repertoire I: Guitar	2
MUSIC 766	Advanced Instrumental Repertoire II: Guitar	2
<b>Electives</b>		
Music		2
General (U/G or G)		2
<b>Total Credits</b>		<b>32</b>

The program must also include 3 credits in MUSIC 314, if not previously completed.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Director of Graduate Studies. A Graduate Music Application is available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286.

### Recital

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

### Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

### Ensemble Participation

The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Music, MM: Performance: Keyboard

This concentration is designed for the music student with an undergraduate degree in piano who wishes to specialize as a collaborative pianist in performance and repertoire. A student must successfully pass an audition that demonstrates an advanced level of collaborative skill to qualify for admission to the program.

Applicant proposing concentration in Music Performance Keyboard must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Auditions, entrance exams, other prerequisites, and/or portfolio reviews may be required for each concentration.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tpnoonan@uwm.edu](mailto:tpnoonan@uwm.edu), 414-229-2286).
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3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
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While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1

MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives, and 2 of which may be in another area or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 990	Research of Thesis (or Final Project)	3
<b>Performance</b>		
MUSPERF 7XX	Performance Credits	12
<b>Advanced Performance Repertoire</b>		
Select 4 credits in voice or chosen instrument (see below)		4
<b>Electives</b>		
Music		2
General		2
<b>Total Credits</b>		<b>32</b>

### Advanced Performance Repertoire

#### Strings

Code	Title	Credits
MUSIC 755	Advanced Instrumental Repertoire I: Strings	2
<i>Select the following for 1 credit each for 2 semesters:</i>		2
MUSIC 782	Symphony Orchestra	

#### Wind, Brass, Percussion

Code	Title	Credits
MUSIC 757	Advanced Instrumental Repertoire I: Brass and Woodwinds	2
or MUSIC 763		Advanced Percussion Performance Repertoire
<i>Select 2 credits from the following:</i>		2
MUSIC 758	Advanced Instrumental Repertoire II: Brass and Woodwinds	
MUSIC 782	Symphony Orchestra	
MUSIC 789	Wind Ensemble	
MUSIC 740	Symphony Band (previously 788)	

**Voice**

Code	Title	Credits
MUSIC 753	Advanced Song Literature I	2
Select 2 credits from the following:		
MUSIC 457	Opera Theatre	2
MUSIC 795	Concert Chorale	2
MUSIC 798	Bella Voce	2

**Keyboard**

Code	Title	Credits
MUSIC 751	Advanced Piano Repertoire I	2
MUSIC 752	Advanced Piano Repertoire II	2

**Guitar**

Code	Title	Credits
MUSIC 765	Advanced Instrumental Repertoire I: Guitar	2
MUSIC 766	Advanced Instrumental Repertoire II: Guitar	2

The program must also include 3 credits in MUSIC 314, if not previously completed.

**Additional Requirements****Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Director of Graduate Studies. A Graduate Music Application is available upon request from the Department of Music, Dr. Timothy Noonan [tponoonan@uwm.edu](mailto:tponoonan@uwm.edu), 414-229-2286.

**Recital**

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows their capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

**Comprehensive Examination**

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

**Ensemble Participation**

The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each

semester in which the student is registered for music performance instruction in the major instrument.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Music, MM: Performance: Percussion**

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill in percussion. A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Applicant proposing concentration in Music Performance Percussion must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

**Admission Requirements****Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

**Admission**

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition.

Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives, and 2 of which may be in another area or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 990	Research of Thesis	3
<b>Performance</b>		
MUSPERF 7XX	Performance Credits	12
<b>Advanced Performance Repertoire</b>		
MUSIC 763	Advanced Percussion Performance Repertoire	2
<i>Select 2 credits in one of the following:</i>		
MUSIC 758	Advanced Instrumental Repertoire II: Brass and Woodwinds	2
MUSIC 782	Symphony Orchestra	
MUSIC 789	Wind Ensemble	
MUSIC 740	Symphony Band (previously 788)	
<b>Electives</b>		
Music		2
General		2
<b>Total Credits</b>		<b>32</b>

The program must also include 3 credits in MUSIC 314, if not previously completed.

## Additional Requirements

### Recital

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

## Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

## Ensemble Participation

The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

## Time Limit

The student must complete all degree requirements within five years of initial enrollment.

# Music, MM: Performance: String Emphasis

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill.

Applicant proposing concentration in Music Performance String Emphasis must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

# Admission Requirements

## Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tpnoonan@uwm.edu](mailto:tpnoonan@uwm.edu), 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

- Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

- Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives, and 2 of which may be in another area or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 990	Research of Thesis	3
<b>Performance</b>		
MUSPERF 7XX	Performance Credits	12
<b>Advanced Performance Repertoire</b>		
MUSIC 755	Advanced Instrumental Repertoire I: Strings	2
<i>Select the following for 1 credit each for 2 semesters:</i>		
MUSIC 782	Symphony Orchestra	2
<b>Electives</b>		
Music		2
General		2
<b>Total Credits</b>		<b>32</b>

The program must also include 3 credits in MUSIC 314, if not previously completed.

## Additional Requirements

### Recital

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her

capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

### Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

### Ensemble Participation

The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Music, MM: Performance: Vocal Emphasis

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill.

Applicant proposing concentration in Music Performance Vocal Emphasis must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student

may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

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2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives, and 2 of which may be in another area or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 990	Research of Thesis	3
<b>Performance</b>		
MUSPERF 7XX	Performance Credits	12
<b>Advanced Performance Repertoire</b>		
MUSIC 753	Advanced Song Literature I	2
<i>Select 2 credits in one of the following:</i>		
MUSIC 457	Opera Theatre	2
MUSIC 795	Concert Chorale	2

MUSIC 798	Bella Voce
<b>Electives</b>	
Music	2
General	2
<b>Total Credits</b>	<b>32</b>

The program must also include 3 credits in MUSIC 314, if not previously completed.

## Additional Requirements

### Recital

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

### Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

### Ensemble Participation

The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Music, MM: Performance: Woodwinds/Brass

This concentration is designed for the music student who wishes to concentrate primarily on the major performing skill in woodwinds or brass.

Applicants proposing concentration in Music Performance: Woodwinds/Brass must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished

Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicant proposing concentration in Music Performance or Collaborative Piano must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

Applicant proposing voice studies must demonstrate undergraduate study or other proficiency in two foreign languages. A voice diagnostic exam will be given at the audition in the areas of diction, literature, pedagogy and related vocal subjects to determine proficiency.

A student must successfully pass an audition at an advanced level of performance to qualify for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:



1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan tnoonan@uwm.edu, 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, 28 of which must be in specified music areas, 2 of which must be Music electives, and 2 of which may be in another area or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History.	3
MUSIC XXX	Graduate Theory Elective	3

MUSIC 990	Research of Thesis	3
<b>Performance</b>		
MUSPERF 7XX	Performance Credits	12
<b>Advanced Performance Repertoire</b>		
MUSIC 757	Advanced Instrumental Repertoire I: Brass and Woodwinds	2
<i>Select 2 credits in one of the following:</i>		
MUSIC 758	Advanced Instrumental Repertoire II: Brass and Woodwinds	2
MUSIC 782	Symphony Orchestra	
MUSIC 789	Wind Ensemble	
MUSIC 740	Symphony Band (previously 788)	
<b>Electives</b>		
Music		2
General		2
<b>Total Credits</b>		<b>32</b>

The program must also include 3 credits in MUSIC 314, if not previously completed.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Director of Graduate Studies. A Graduate Music Application is available upon request from the Department of Music (Dr. Timothy Noonan, tnoonan@uwm.edu, 414-229-2286).

### Recital

The recital should be given no sooner than the final semester of coursework. The student must present a recital which shows his or her capabilities with various styles including repertoire selected from diverse historical and/or international origins. Programs will comprise a full-length recital. Instrumental recitals include solo/concerto style works and collaborative chamber works. The recital program should be chosen in consultation with the applied teacher with whom the student intends to prepare the recital. The proposed program must be approved by the Graduate Committee, and the student must present a satisfactory recital audition before the recital may be scheduled.

### Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

### Ensemble Participation

The student of violin, viola, violoncello, or contrabass is required to participate in Symphony Orchestra each semester in which the student is registered for music performance in the major instrument. Two of these semesters (2 credits) fulfill the Orchestra requirement for the degree. A maximum of 2 additional semesters (2 credits) of Orchestra may be applied toward the master's degree. All other students, vocal as well as instrumental (except those with keyboard or guitar concentrations), are required to be enrolled in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Music, MM: String Pedagogy**

This concentration is designed for the music student who wishes to concentrate primarily on the pedagogy of his/her major performing string instrument. A student must successfully pass an audition at a satisfactory level of performance for admission to the program.

Applicant proposing concentration in Music Performance String Pedagogy must demonstrate outstanding performance skills. An on-site audition is required; in extreme cases, recorded examples of an applicant's performance may be accepted in lieu of an in-person audition. Applicant should contact faculty in the appropriate performance area to inquire about specific audition repertoire and procedures.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

**Admission Requirements****Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

**Admission**

Applicant should contact faculty in the appropriate string and String Pedagogy areas to inquire about audition and additional entrance requirements.

A student must successfully pass an audition at a satisfactory level of performance for admission to the program.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their

first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tponoonan@uwm.edu](mailto:tponoonan@uwm.edu), 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

**Credits and Courses**

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses

are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 34 graduate credits, all of which must be in specified music areas.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 991	Recital And Lecture Demonstration	1
<b>Performance</b>		
<i>Select one of the following (1 credit each for 2 semesters):</i>		
MUSPERF 541		
MUSPERF 542		
MUSPERF 543		
MUSPERF 7XX	String Instruments Violin/Viola/Cello (2 cr each for 4 semesters)	8
<i>Select the following for 1 credit each for 2 semesters:</i>		
MUSIC 782	Symphony Orchestra	2
MUSIC 755	Advanced Instrumental Repertoire I: Strings	2
MUSIC 756	Advanced Instrumental Repertoire II: Strings	2
<b>Pedagogy</b>		
MUSIC 718 or MUSIC 722	Violin and Viola Pedagogy Level I Cello Pedagogy Level I	2
MUSIC 719 or MUSIC 723	Violin and Viola Pedagogy Level II Cello Pedagogy Level II	2
<i>Select one of the following:</i>		
MUSIC 720	Violin Pedagogy Level III	
MUSIC 721	Viola Pedagogy Level III	
MUSIC 724	Cello Pedagogy Level III	
MUSIC 829	Seminar: Historical Perspectives On Violin, Viola And Cello Pedagogy	2
<b>Total Credits</b>		<b>34</b>

## Additional Requirements

### Recital and Lecture Demonstration

The recital and lecture demonstration may be given at any time before the completion of the degree program.

The recital consists of two parts:

1. A performance of a minimum of 30-45 minutes of music that has been approved by the major teacher
2. A lecture totaling approximately 30 minutes to be given before, during, or after the recital, in which the candidate discusses one or more pieces to be performed on the recital program, with emphasis on pedagogical values of the piece(s), the difficulties, and how they are overcome

### Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory. This requirement normally follows successful completion of the recital requirement.

### Ensemble Participation

The student is required to participate in an approved performing organization each semester in which the student is registered for music performance instruction in the major instrument; in two of these semesters the student must be enrolled in Symphony Orchestra for credit (see Performance Credits above).

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Music, MM: Theory and Composition

This concentration is designed for the person possessing creative talent in acquiring and utilizing the techniques and craft of musical composition through theory, literature and analysis. We foster development in instrumental, vocal, and electro-acoustic composition, with an emphasis on contemporary and experimental techniques. Interested students should preferably have experience in computer notation, midi applications, theory, literature, and analysis pedagogic areas.

Applicant must submit a portfolio of original compositions which could include CD/DVD/computer software files/midi programs in addition to at least one excerpt and one complete composition in conventional notation or analytical research paper(s) or presentations submitted or presented in a regional or national theory society organization, computer assisted analysis or presentation in such areas as Schenkerian analysis or Spectromorphology in acoustic, electronic or acoustic theory.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicant should preferably have experience in computer notation, MIDI applications, theory, literature, and analysis.

Applicant must submit a portfolio of original compositions, which could include CD / DVD / computer software files / MIDI programs and must include at least one excerpt and one complete composition in conventional notation.

Applicant also could include one or both of the following:

1. Analytical research papers or presentations submitted or presented at regional or national theory, composition, or computer music conferences.
2. Computer-assisted analysis or presentations in such areas as Schenkerian analysis, spectromorphology in acoustic, electronic, or acoustmatic theory.

Applicant should possess keyboard proficiency of a level permitting the candidate to sight-read music of moderate difficulty and performance capability of compositions at the level of an early Beethoven sonata or Bach's Two-part Inventions.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tpnoonan@uwm.edu](mailto:tpnoonan@uwm.edu), 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 32 graduate credits, including:

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC 731	Contemporary Composition Techniques	3
MUSIC 744	Graduate Theory Seminar	3
<i>Select one of the following:</i>		
MUSIC 327	Studio Techniques	
MUSIC 328	Interactive Electronic Music	
MUSIC 420	Advanced Electronic Music and Sound Art:	
MUSIC 990	Research of Thesis	3
<b>Composition Requirement</b>		
<i>Select the following for 2 credits each for 4 semesters:</i>		
MUSPERF 761	Advanced Composition	8
<b>Electives</b>		
Music Theory		3
Music		3
<b>Total Credits</b>		<b>32</b>

### Recommended Electives

Code	Title	Credits
MUSIC 327	Studio Techniques	3
MUSIC 328	Interactive Electronic Music	3
MUSIC 420	Advanced Electronic Music and Sound Art:	3

MUSIC 421	Materials of Theory IV	3
MUSIC 680	Special Studies in Music:	1-3

Electives must be chosen in accordance with the needs of the individual candidate and with the advice and consent of the advisor or major professor.

## Additional Requirements

### Thesis

The candidate for the Master of Music degree must complete one of the following:

- A composition of significant breadth will serve as the thesis for the MM in Music Theory and Composition. It may be for large or chamber ensemble with or without electronic component or for the electronic medium alone. Completion of the thesis must include its public performance. If the thesis composition is written for a large university ensemble (orchestra, wind ensemble, choir) a hearing of a single rehearsal of the entire composition will suffice.
- A research project which shall be either a paper or a theoretical program evidencing both a capacity for research and originality in creative analysis or computer composition application evidencing both research capabilities and analytical insight.

### Comprehensive Examination

The student must pass final comprehensive examinations in both music history and music theory.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Theatre

The Theatre Department’s mission is to educate students in the practice and study of theatre and to encourage students’ creative and critical development. It supports the application of theatre skills in lasting, strong, and meaningful ways throughout their lives.

Our urban setting provides access to a thriving professional arts community with opportunities to engage with the region’s many cultural groups and institutions through service learning, internships, and fieldwork. These experiences support students interested in developing as artists, educators, and scholars and by actively encouraging them to be theatre makers.

The Theatre Department offers a Bachelor of Fine Arts in Theatre and a Bachelor of Arts in Theatre Practices. We also offer a Theatre Minor.

## Degree Programs

The Bachelor of Fine Arts (BFA) in Theatre offers two tracks: Performance and Production. Performance majors focus on either Acting or Musical Theatre. Production majors explore a broad curriculum in Costuming, Stage Management, Technical Production, and Design.

The Bachelor of Arts in Theatre Practices (BA) offers two tracks: Theatre Practices and K-12 Theatre Education. Theatre Practices focuses on

playwriting, performing and devising new works, directing, community engaged practices, theatre and social justice, and dramaturgy. BA students also have an opportunity to earn a Cultures and Communities (C&C) Certificate (p. 980). The Theatre Education track in the BA is a professional program that leads to a Wisconsin Theatre Educator license.

Theatre study, in all degree programs within the department, begins with a common core of course experiences designed to provide learning opportunities encouraging participants to engage with theatre as a way of seeing, understanding, and communicating culture.

## Capstone

All programs and tracks in all undergraduate programs within the Theatre Department require a capstone experience. The capstone serves as a laboratory for students and provides a framework for application of developing skills and knowledge. Depending on semester, program, or project, capstones are executed and evaluated within the following courses:

### BA in Theatre Practices Degree

Code	Title	Credits
THEATRE 465	Theatre Capstone: BA Theatre Practices	3
THEATRE 472	Performance Capstone in Musical Theatre	3
THEATRE 485	Elementary Level Student Teaching in Theatre	2-6
THEATRE 486	Secondary Student Teaching in Theatre	2-6

### BFA Acting Degree

Code	Title	Credits
THEATRE 571	Acting 6	3

### BFA Musical Theatre Degree

Code	Title	Credits
THEATRE 472	Performance Capstone in Musical Theatre	3

### BFA Production Degree

Code	Title	Credits
THEATRE 675 or THEATRE 685	Advanced Studio Internship in Professional Theatre	1-6

Capstone evaluations are used to assess student outcomes and program goals.

## Programs

- Musical Theatre, Undergraduate Certificate (p. 230)
- Theatre Practices, BA (p. 230)
- Theatre Practices, BA: Theatre Education (p. 233)
- Theatre, BFA: Performance (p. 237)
- Theatre, BFA: Production (p. 242)
- Theatre, Minor (p. 246)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Jessica Berlin Krivsky	Teaching Faculty II	MA	Goucher College		
Steve Decker	Associate Professor in College of General Studies	MFA	Indiana University		
Christopher Guse	Associate Professor	BFA	University of Wisconsin-Milwaukee		
Rebecca Holderness	Professor	MFA	Columbia University		✓
Ralph Janes	Teaching Faculty III	MFA	University of California-San Diego		
Marcella Kearns	Lecturer	MFA	University of South Carolina		
Christopher Kurtz	Teaching Faculty II	MFA	Wayne State University		
Ana McHenry	Teaching Faculty II	BFA	University of Wisconsin-Milwaukee		
Raeleen McMillion	Teaching Faculty II	MFA	Ohio University		
Robin Mello	Professor	PhD	Lesley University		
Jason Orlenko	Assistant Professor	MFA	Indiana University		
Sheri Williams Pannell	Assistant Professor	MFA	University of Wisconsin-Madison		
Alvaro Saar Rios	Associate Professor	MFA	Northwestern University		
Dana Rochester	Teaching Faculty II	MFA	University of Wisconsin-Milwaukee		
LeRoy Stoner	Associate Professor	MA	Indiana University		✓
Sandra Strawn	Professor	BSE	Emporia State University		✓
James Tasse	Teaching Faculty II	BFA	University of Wisconsin-Milwaukee		
William Watson	Professor	MFA	University of Washington		
Stephen White	Associate Professor	MFA	Northwestern University		

## Musical Theatre, Undergraduate Certificate

### Requirements

The Musical Theatre Certificate is an interdisciplinary program which requires training in three areas of the arts: acting, dance, and music. The requirements are as follows:

Code	Title	Credits
<b>DANCE (6 credits)</b>		
DANCE 327	Dance for the Musical Theatre I	2
Choose 1 of the following:		2
DANCE 111	Ballet I	
DANCE 113	Modern Dance Technique I	
Choose 1 of the following not previously taken:		2
DANCE 111	Ballet I	
DANCE 113	Modern Dance Technique I	
DANCE 115	Jazz Dance I	
DANCE 122	African Dance & Diaspora Technique I	
DANCE 427	Dance for the Musical Theatre II	
<b>MUSIC (7 credits)</b>		
Choose 1 Choral Ensemble		1
MUSPERF 111	Lessons in Voice	1
MUSPERF 111	Lessons in Voice	1
MUSIC 142	Class Voice for Musical Theater Level I	2
MUSIC 143	Class Voice for Music Theatre Level II	2
<b>THEATRE (9 credits)</b>		
THEATRE 110	Fundamentals of the Actor's Process	3

Choose 1 of the following:	3	
THEATRE 100	Introduction to the Theatre	
THEATRE 150	Multicultural America:	
THEATRE 408	Acting in Musical Theatre	3
<b>Total Credits</b>	<b>22</b>	

## Theatre Practices, BA

The Bachelor of Arts (BA) in Theatre Practices supports engaged theatre practice that meets the social and cultural challenges of our twenty-first century society.

Our innovative curriculum invites students to begin by building core theatre skills, then gradually applying them to a range of projects, settings, and populations. This culminates in in-depth application of these skills through internships, community placements and a Capstone. The BA in Theatre Practice supports a professional track for students seeking a Wisconsin Theatre Teaching license in K-12 Theatre Education. It also offers students the option to earn a Cultures and Communities (C&C) certificate (p. 980).

The BA in Theatre Practices engages students in focusing their study on educational and social justice theatre, devising and performing new work, storytelling, dramaturgy, directing, playwriting, and arts and social entrepreneurship. For more information visit the Theatre Practices, BA Program page (<https://uwm.edu/arts/academics/theatre-practices-ba/>). (<http://uwm.edu/arts/theatre/ba/>)

# Requirements

## Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## Credit Overview

The minimum degree requirement is 120 credits. BA Theatre Practices Degree requirements are distributed as follows:

Code	Title	Credits
	University Core Curriculum	39
	Theatre Department Core	30
	BA Track Requirements and Electives	51
<b>Total Credits</b>		<b>120</b>

## Bachelor of Arts in Theatre Practices Curriculum

The BA degree in Theatre Practices requires a minimum of 120 credits - 39 credits in the University Core Curriculum, 48 credits in the Theatre department, and 33 credits of the student's choosing inside and/or outside of the department. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits. BA Theatre majors are required to fulfill the department's core, maintain a 2.75 GPA in the major, and earn a C grade or better in all Theatre Core courses.

BA Theatre students execute a capstone course project as a culminating demonstration of their learning. All capstones are evaluated through a presentation of research and/or portfolio process. Students also have an option to earn a Cultures and Communities (C&C) certificate (p. 980).

## University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies <sup>1</sup></i>		
	Oral and Written Communication – Part A and Part B <sup>2,3</sup>	
	Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>	
	Foreign Language <sup>2,3</sup>	
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities <sup>4</sup>	6
	Natural Sciences (Must include one lab) <sup>5</sup>	6
	Social Sciences <sup>6</sup>	6
	Cultural Diversity <sup>2,7</sup>	

## Electives

Credits in Peck School of the Arts <sup>8,9</sup>	9
University Credits (outside of Theatre) <sup>10</sup>	12
<b>Total Credits</b>	<b>39</b>

- <sup>1</sup> Learn more about the General Education Requirements (p. 29).
- <sup>2</sup> Credits may be utilized in required curriculum areas.
- <sup>3</sup> Theatre students must complete the General Education Requirements (GER) in Oral and Written Communication competency (OWC), Quantitative Literacy competency (QL), and Foreign Language proficiency prior to enrolling in 310-level or above theatre courses.
- <sup>4</sup> If earning the C&C certificate, 3 credits must be an Area 2 C&C approved course.
- <sup>5</sup> If earning the C&C certificate, 3 credits must be an Area 5 C&C approved course.
- <sup>6</sup> If earning the C&C certificate, 3 credits must be an Area 3 or Area 5 C&C approved course.
- <sup>7</sup> If earning the C&C certificate, take THEATRE 150 to fulfill this requirement. If earning the A&SE certificate, take any 150 course in PSOA, outside of Theatre.
- <sup>8</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.
- <sup>9</sup> If earning the C&C or A&SE certificate, only 9 total credits are required. For the C&C certificate, 3 credits must be an Area 4 C&C approved course.
- <sup>10</sup> If earning the A&SE certificate, take ED POL 111 or ED POL 112.

## Theatre Department Core

Code	Title	Credits
THEATRE 260	Storytelling:	3
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 213	Play Analysis	3
THEATRE 214	Stagecraft (with lab)	4
THEATRE 225	Costume Construction (with lab)	2
THEATRE 236	Theatre Production and Design	3
THEATRE 275	Performing Arts Management	3
THEATRE 305	The Theatrical Experience:	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
Select one of the following:		3
THEATRE 322	The Theatre: Modern and Contemporary Period	
THEATRE 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	

**Total Credits 30**

## BA Theatre Practices Requirements

Code	Title	Credits
THEATRE 204	Theatre and Social Change	3
THEATRE 359	Playwriting	3
THEATRE 380	Stage Management	3
THEATRE 410	Stage Directing	3
THEATRE 448	How to be a Teaching Artist	3

THEATRE 465	Theatre Capstone: BA Theatre Practices	3
<b>Total Credits</b>		<b>18</b>

### Electives

Electives are chosen from any department on campus in consideration of a student's interests and in consultation with a student's PSOA and departmental advisors. A minimum of 33 credits is required to graduate.

## BA Theatre: Example of Required Courses in 4-Year Plan

### Year 1

Fall		Credits
THEATRE 214 or THEATRE 225	Stagecraft or Costume Construction	2-4
THEATRE 260	Storytelling:	3
THEATRE 305	The Theatrical Experience:	3
GER		6
<b>Credits</b>		<b>16</b>

### Spring

THEATRE 213	Play Analysis	3
THEATRE 214 or THEATRE 225	Stagecraft or Costume Construction	2-4
THEATRE 230	Acting 2: Text and Performance	3
GER		6
<b>Credits</b>		<b>14</b>

### Year 2

Fall		Credits
THEATRE 236	Theatre Production and Design	3
THEATRE 275	Performing Arts Management	3
Electives		3
GER/PSOA		6
<b>Credits</b>		<b>15</b>

### Spring

THEATRE 204	Theatre and Social Change	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
Electives		6
GER/PSOA		3
<b>Credits</b>		<b>15</b>

### Year 3

Fall		Credits
THEATRE 324 or THEATRE 322	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre or The Theatre: Modern and Contemporary Period	3
THEATRE 380	Stage Management	3
THEATRE 410	Stage Directing	3
GER/PSOA		3
Electives		3
<b>Credits</b>		<b>15</b>

### Spring

GER/PSOA		6
Electives		9
<b>Credits</b>		<b>15</b>

### Year 4

Fall		Credits
THEATRE 359	Playwriting	3
THEATRE 448	How to be a Teaching Artist	3
Electives		6
GER/PSOA		3
<b>Credits</b>		<b>15</b>

### Spring

THEATRE 465 or THEATRE 472	Theatre Capstone: BA Theatre Practices (subtitle) or Performance Capstone in Musical Theatre	3
Electives		6
GER/PSOA		6
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

## Application Process

To be considered for the Theatre BA or BFA program, applicants must first be accepted to UW-Milwaukee, apply to the Peck School of the Arts and complete a successful audition and/or interview. Please visit the Peck School admissions page for more information.

## Advance to Major/Retention

To be accepted and continue in good standing within any Theatre degree program, students must meet or exceed all general university requirements, have and maintain a 2.5 GPA overall (with the exception of Theatre Education majors). BA degree majors must also maintain a 2.75 GPA within the major. Theatre Education majors must maintain a 3.0 in the major. All BFA degree majors must maintain a 3.0 in the major. Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students will be put on probation inside the major, and may be denied continuation in their program, if they receive a D grade or lower in any Theatre Core courses, which are:

Code	Title	Credits
THEATRE 110	Fundamentals of the Actor's Process	3
THEATRE 204	Theatre and Social Change	3
THEATRE 213	Play Analysis	3
THEATRE 214	Stagecraft	4
THEATRE 225	Costume Construction	2
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 236	Theatre Production and Design	3
THEATRE 260	Storytelling:	3
THEATRE 275	Performing Arts Management	3
THEATRE 305	The Theatrical Experience:	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
THEATRE 322	The Theatre: Modern and Contemporary Period	3

As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test, or a portfolio equivalent as determined by the program, before being allowed to engage in their student teaching fieldwork.

## Continuation

Students who are in danger of being dropped from the program, or put on probation, will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee and the Theatre Department Chair. Appeals committee findings will be given to the student in writing and in a timely manner.



## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Theatre Practices, BA: Theatre Education

The BA in Theatre Practices - Theatre Education supports a professional track for students seeking a Wisconsin Theatre Teaching license in K-12 Theatre (WI DPI License #1325). The BA Theatre Ed. engages students in focusing their study on educational and social justice theatre, devising and performing new work, storytelling, dramaturgy, directing, playwriting, and arts and social entrepreneurship.

Our innovative curriculum invites students to begin by building core theatre skills, then gradually applying them to a range of projects, settings, and populations. This culminates in in-depth application of these skills through internships, community placements and a Capstone of Semester - Long Student Teaching. It also offers students the option to earn a Cultures and Communities (C&C) certificate (p. 980).

For more information please see the Theatre Education, BA program page (<https://uwm.edu/arts/academics/theatre-education-ba/>).

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### Credit Overview

BA in Theatre Education Program Requirements are distributed as follows:

Code	Title	Credits
	University Core Curriculum	39
	Theatre Department Core	30
	BA Theatre Education Track Requirements	41
	Electives	10
<b>Total Credits</b>		<b>120</b>

## Bachelor of Arts in Theatre Education Licensure Program

The BA Theatre Education Program (Theatre Education) is a track within the BA in Theatre Practices degree program. It is a 120-credit degree that prepares urban theatre teachers for teaching in grades PK4-12.

**Admission and Continuation Requirements:** Students are typically admitted into Theatre Education in their Senior year of High School. Student may also apply to the Theatre Education program while majoring in another Theatre degree program. Students may also apply to transfer into the program from within UWM or from other higher education

programs as well. Once accepted to the university, candidates apply to the program through the PSOA portal.

All Theatre Education students must maintain a 2.75 cumulative grade point average (within general University courses) and a 3.0 within the major to be in good standing and continue in the program.

All teacher candidates must take and pass the Praxis II Theatre Content Test, or pass a Portfolio equivalent (as determined by the program), and have successfully completed the Communication and Foreign Language Competencies, Oral and Written Communication (OWC) parts A and B, and Quantitative Literacy (QL) parts A and B, prior to being approved for student teaching.

**Communications Requirement:** Students interested in pursuing a professional education teaching credential must take a communications course. At UWM theatre students are required to take THEATRE 260.

**Human Relations Requirement:** The Human Relations Requirement provides prospective teachers with awareness and understanding of intercultural relations within the educational setting. The requirement is met with coursework and service-learning opportunities. Effective July 1, 1992, and pursuant to 1987 Wisconsin Act 31, a license to teach may be granted when “the applicant has received instruction in the study of minority group relations, including instruction in the history, culture, and tribal sovereignty of American Indian tribes and bands located in this state.” Currently, this requirement is met through satisfactory completion and a passing grade in one of the following courses: AIS 203, HIST 263, ANTHRO 213, or ENGLISH 276 (with the special topic “Literature, History, and Sovereignty of Upper Midwest Indians”), or Wisconsin Act 31 seminar attendance. Questions regarding this requirement should be directed to the student’s academic advisor.

**Fieldwork and Student Teaching:** A passing score on the Praxis II Theatre Content Test, clear criminal background check, and negative TB test, along with an application of intent are required prior to working in public schools and student teaching.

**Teaching Portfolio:** Pursuant to WI statutes and regulations, Theatre Education requires that students compile an externally reviewed teaching portfolio (EdTPA) that demonstrates teaching proficiency in their area of expertise. They also must submit an exit portfolio, administered internally by the Theatre Education program, demonstrating proficiency in WI teaching standards.

**Application for WI #1325 Theatre Teacher License:** In keeping with DPI requirements, Theatre Education students must have a 2.75 cumulative grade point average within the general University and 3.0 in the major to be approved to apply for a teaching license after graduation. Following admission to Theatre Education and successful completion of the specified course of study (see below) a student seeking recommendation for teacher licensure must successfully fulfill the following:

1. Fulfill all degree requirements;
2. Fulfill the Field Experience Requirement (embedded in course work within the program);
3. Demonstrate at least a 2.75 cumulative GPA and a 3.0 within the major;
4. Pass the Praxis II Theatre Content Exam or the portfolio equivalent;
5. Successfully complete student teaching;
6. Successfully complete an EdTPA portfolio;
7. Successfully demonstrate mastery of the knowledge, skills, and dispositions necessary for a career in the field of theatre education

through the submission of an initial-professional educator-portfolio, which is assessed by program faculty (as per DPI requirement);

8. Pass all teacher evaluations/tests required by the State of Wisconsin.

## BA Theatre Education Requirements

The minimum number of credits required to complete the Bachelor of Arts in Theatre Education is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits. BA Theatre majors are required to fulfill the department’s core, maintain a 2.75 GPA in the major, and earn a C grade or better in all Theatre Core courses.

BA Theatre students execute a capstone course project as a culminating demonstration of their learning. K-12 Theatre Education students complete their capstone experience through student teaching. All capstones and student teaching are evaluated through a presentation of research and/or portfolio process.

The Theatre Education track prepares students to be urban educators in Wisconsin classrooms, grades K-12. They are expected to earn a 2.5 GPA overall and a 3.5 GPA within the major and earn a C grade or better in all Theatre Core courses. On successful completion of all degree requirements, Theatre Education students are recommended for #1325 Theatre licensure in the State of Wisconsin. For more information please visit the Theatre Education BA program page.

## University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies <sup>1</sup></i>		
	Oral and Written Communication – Part A and Part B <sup>2,3</sup>	
	Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>	
	Foreign Language <sup>2,3</sup>	
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>4</sup>	0
<b>Electives</b>		
	Credits in Peck School of the Arts <sup>5</sup>	9
	University Credits (outside of Theatre) <sup>6</sup>	12
<b>Total Credits</b>		<b>39</b>

<sup>1</sup> Learn more about the General Education Requirements (p. ).

<sup>2</sup> Credits may be utilized in required curriculum areas.

<sup>3</sup> Theatre students must complete the General Education Requirements (GER) in Oral and Written Communication competency (OWC), Quantitative Literacy competency (QL), and Foreign Language proficiency prior to enrolling in 310-level or above theatre courses.

<sup>4</sup> Should be met by one of the following ACT 31 approved courses: AIS 203, ANTHRO 213, HIST 263, and will count toward 3 credits of Social Science.

<sup>5</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student’s discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

<sup>6</sup> The 3 required School of Education courses (listed below) could fulfill 9 of these credits allowing 9 additional credits of electives. See your advisor for more information.

### Theatre Department Core

Code	Title	Credits
THEATRE 260	Storytelling: <sup>1</sup>	3
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 213	Play Analysis	3
THEATRE 214	Stagecraft (with lab)	4
THEATRE 225	Costume Construction (with lab)	2
THEATRE 236	Theatre Production and Design	3
THEATRE 275	Performing Arts Management	3
THEATRE 305	The Theatrical Experience:	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
THEATRE 322	The Theatre: Modern and Contemporary Period	3
<b>Total Credits</b>		<b>30</b>

### Theatre Education Track Requirements and Electives

Code	Title	Credits
<b>Required School of Education Courses <sup>2</sup></b>		
ED PSY 330	Introduction to Learning and Development	3
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
or CURRINS 343	Teaching of Reading	
Select one of the following:		3
EXCEDUC 300	The Exceptional Individual	
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	
EXCEDUC 605	Child, Learner, Disabilities	
<b>Required Theatre Education Courses</b>		
THEATRE 204	Theatre and Social Change	3
THEATRE 359	Playwriting	3
THEATRE 360	Theatre Practices: (with the special topic "TYA"; must take 4 times for 4 credits total)	4
THEATRE 410	Stage Directing	3
THEATRE 448	How to be a Teaching Artist	3
THEATRE 473	Theatre in Elementary Education	3
THEATRE 474	Theatre in Secondary Education	3
THEATRE 475	Rehearsal and Performance: <sup>3</sup>	4
THEATRE 484	Field Work in Theatre	3
THEATRE 485	Elementary Level Student Teaching in Theatre	6
THEATRE 486	Secondary Student Teaching in Theatre	6
<i>Theatre Education Electives <sup>4</sup></i>		<i>10</i>
<b>Total Credits</b>		<b>51</b>

<sup>1</sup> Satisfies the DPI Communication requirement.  
<sup>2</sup> Can be completed as part of the University Core.  
<sup>3</sup> Course taken twice for 4 credits.  
<sup>4</sup> Additional courses in Theatre and Education - see your PSOA & Theatre advisors for recommendations.

### Theatre Education: Example of Required Courses in 4-Year Plan

Year 1		Credits
<b>Fall</b>		
THEATRE 214	Stagecraft	4
or THEATRE 225	or Costume Construction	
THEATRE 260	Storytelling:	3
THEATRE 305	The Theatrical Experience:	3
University Core		6
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 213	Play Analysis	3
THEATRE 225	Costume Construction	2
or THEATRE 214	or Stagecraft	
THEATRE 475	Rehearsal and Performance:	2
University Core		6
<b>Credits</b>		<b>16</b>
<b>Year 2</b>		
<b>Fall</b>		
THEATRE 236	Theatre Production and Design	3
THEATRE 275	Performing Arts Management	3
THEATRE 360	Theatre Practices:	1
THEATRE 448	How to be a Teaching Artist	3
University Core		6
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
THEATRE 204	Theatre and Social Change	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
THEATRE 360	Theatre Practices:	1
ED PSY 330	Introduction to Learning and Development	3
University Core		6
<b>Credits</b>		<b>16</b>
<b>Year 3</b>		
<b>Fall</b>		
THEATRE 322	The Theatre: Modern and Contemporary Period	3
THEATRE 410	Stage Directing	3
THEATRE 473	Theatre in Elementary Education	3
THEATRE 360	Theatre Practices:	1
University Core		6
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
THEATRE 474	Theatre in Secondary Education	3
THEATRE 475	Rehearsal and Performance:	2
THEATRE 360	Theatre Practices:	1
Select one of the following:		3
EXCEDUC 300	The Exceptional Individual	
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	
EXCEDUC 605	Child, Learner, Disabilities	
Electives/University Core		6
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Fall</b>		
THEATRE 202	Theatre Practicum (or Elective/University Core)	1
THEATRE 359	Playwriting	3
THEATRE 484	Field Work in Theatre	3
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
Electives/University Core		3
<b>Credits</b>		<b>13</b>

Spring		
THEATRE 485	Elementary Level Student Teaching in Theatre	6
THEATRE 486	Secondary Student Teaching in Theatre	6
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>120</b>

## Application Process

Admission to The BA in Theatre Practices degree is based on acceptance to the university. At that time, students are required to take part in a placement interview with a BA faculty advisor, which helps determine the choice of electives, including what practices and areas of interest a student wishes to focus on. The Theatre Education track requires an interview before being accepted into the program.

## Advance to Major/Retention

To be accepted and continue in good standing within any Theatre degree program, students must meet or exceed all general university requirements, have and maintain a 2.5 GPA overall (with the exception of Theatre Education majors). BA degree majors must also maintain a 2.75 GPA within the major. Theatre Education majors must maintain a 3.0 in the major. All BFA degree majors must maintain a 3.0 in the major. Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students will be put on probation inside the major, and may be denied continuation in their program, if they receive a D grade or lower in any Theatre Core courses, which are:

Code	Title	Credits
THEATRE 110	Fundamentals of the Actor's Process	3
THEATRE 204	Theatre and Social Change	3
THEATRE 213	Play Analysis	3
THEATRE 214	Stagecraft	4
THEATRE 225	Costume Construction	2
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 236	Theatre Production and Design	3
THEATRE 260	Storytelling:	3
THEATRE 275	Performing Arts Management	3
THEATRE 305	The Theatrical Experience:	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
THEATRE 322	The Theatre: Modern and Contemporary Period	3

As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test, or a portfolio equivalent as determined by the program, before being allowed to engage in their student teaching fieldwork.

## Continuation

Students who are in danger of being dropped from the program, or put on probation, will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee and the Theatre Department Chair. Appeals committee findings will be given to the student in writing and in a timely manner.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

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For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

# Theatre, BFA: Performance

The Bachelor of Fine Arts (BFA) in Theatre provides intensive specialized coursework for students seeking professional training in one of two separate tracks:

- Performance
  - The **Performance** BFA has two 130-credit tracks in either Acting or Musical Theatre.
- Production
  - The **Production** BFA is a singular 120-credit track embracing all the areas of production including design, costume, prop, scenery, lighting, sound, and stage management.

The BFA focuses on uncovering the potential of the individual student in the development of personal performance and/or production practices. The BFA curriculum supports student exploration of theatrical processes including new works as well as the established canon of dramatic literature. The program approaches the work in fresh and innovative ways, giving students a wide range of tools to speak to the contemporary moment both as actors on stage and as artists in production studios, rehearsal halls, and backstage.

The specialized tracks in the BFA build on the objectives of the department’s core curriculum to nurture within each student a deepened, strengthened, and developing professional level of competency. Each track of specialization follows an integrated curriculum based on an intensive, specialized array of courses. These focused arcs of training endow students with a sense of their own identity as artists. Students must continue to show artistic growth and progress and meet academic grade requirements (see Requirements tab) to continue in the program. Admission to each BFA track is selective and progress reviews are conducted each semester allowing for direct feedback to the student and a chance to explore changing interests or career paths.

- **BFA Acting:** The program builds on the objectives of the department’s core curriculum to develop within the student a deepened, strengthened, and professional level of competency in acting and a sense of identity as a performing artist. It prepares students for advanced graduate study in performance or entry into the profession of theatre practice. To help students develop as complete artists, our program emphasizes an understanding of essential acting theories, principles of voice production, flexible speech techniques, physical communication, physical structures of character, principles of Dramatic Action and Storytelling, and personal artistic practice. Research specific to an actor’s work, objective and subjective/ affective, is demonstrated as a core principle to artistic development. Students are guided through the process of self critique to gain the ability to prescribe solutions and/or new directions for artistic development, and gain an understanding of professional modes of behavior, preparation, and competency
- **BFA Musical Theatre:** Combining three major performing disciplines, Music, Dance, and Theatre, this program trains students to succeed as versatile performing artists. Our students annually perform in carefully chosen musical productions essential to pre-professional training, and hone a range of practical and creative skills consistent with their professional and personal goals. Students will be trained thoroughly in the performance skills necessary to compete in the professional world of musical theatre. Included in this track are a solid developmental and pedagogical foundation in music (voice, theory and musicianship, piano, large and small music ensembles), dance (history of the musical theatre art form, ballet, tap, jazz,

and theatre dance), and theatre (acting, play analysis, and theatre production).

- **BFA Production:** Our multi-faceted Theatre Production program trains students to be competitive in a variety of fields, including technical production, stage management and design, costume production, and more. Offering professional training experiences as early as Freshman year, our students go on to work in a variety of related industry careers. The Production BFA utilizes the foundation of theatre to explore the uniquely collaborative artistic and artisanal processes that create and support compelling storytelling in live performance. The program allows for specialization in the areas of costumes, lighting, properties, scenery, sound/video and stage management but is flexible enough for cross disciplinary studies tailored to the student’s specific interests.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it’s required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

### University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies <sup>1</sup></i>		
	Oral and Written Communication – Part A and Part B <sup>2,3</sup>	
	Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>	
	Foreign Language <sup>2,3</sup>	
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
	Cultural Diversity <sup>2</sup>	
<b>Electives</b>		
	University Credits (outside of PSOA)	12
	Credits in Peck School of the Arts <sup>4</sup>	9
<b>Total Credits</b>		<b>39</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 30).  
<sup>2</sup> Credits may be utilized in conjunction with General Education Social Sciences, Humanities, or Arts credits. See advisor for guidance.  
<sup>3</sup> Theatre students must complete the General Education Requirements (GER) in Oral and Written Communication competency (OWC), Quantitative Literacy competency (QL), and Foreign Language proficiency prior to enrolling in 310-level or above theatre courses.

<sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

The minimum number of credits required to complete the Bachelor of Fine Arts in the Performance Acting track is 126 credits while Performance Musical Theatre track is 130 credits. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

## Acting Track

### Theatre Department Core

Code	Title	Credits
THEATRE 110	Fundamentals of the Actor's Process	3
THEATRE 213	Play Analysis	3
THEATRE 214	Stagecraft (with lab)	4
THEATRE 225	Costume Construction (with lab)	2
THEATRE 275	Performing Arts Management	3
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 236	Theatre Production and Design	3
THEATRE 305	The Theatrical Experience:	3
THEATRE 322	The Theatre: Modern and Contemporary Period	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
<b>Total Credits</b>		<b>30</b>

### Acting Track Requirements and Electives

Code	Title	Credits
<i>Required</i>		
THEATRE 330	Acting Topics: (Topic: Acting for the Camera)	3
THEATRE 430	Stage Voice and Speech 1	3
THEATRE 431	Stage Voice and Speech 2	3
THEATRE 440	Physical Performance 1	3
THEATRE 441	Physical Performance 2	3
THEATRE 463	Master Class in Professional Theatre Study	3
THEATRE 470	Acting Technique 3	3
THEATRE 471	Acting Technique 4	3
THEATRE 475	Rehearsal and Performance: (2-3 cr as assigned; repeatable)	6
THEATRE 530	Stage Voice and Speech 3	3
THEATRE 531	Stage Voice and Speech 4	3
THEATRE 540	Physical Performance 3	3
THEATRE 541	Physical Performance 4	3
THEATRE 570	Acting 5	3
THEATRE 571	Acting 6 (Capstone)	3
<i>Theatre Performance Electives</i>		
Select electives with your advisor		9
<b>Total Credits</b>		<b>57</b>

## Musical Theatre Track

### Theatre Department Core

Code	Title	Credits
THEATRE 110	Fundamentals of the Actor's Process	3
THEATRE 213	Play Analysis	3
THEATRE 214	Stagecraft (with lab)	4
THEATRE 225	Costume Construction (with lab)	2
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 236	Theatre Production and Design	3
THEATRE 275	Performing Arts Management	3
THEATRE 305	The Theatrical Experience:	3
THEATRE 322	The Theatre: Modern and Contemporary Period	3
Select one of the following:		3
THEATRE 321	The Theatre: Beginnings Through Realism	
THEATRE 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	
<b>Total Credits</b>		<b>30</b>

### Musical Theatre Track Requirements and Electives

Code	Title	Credits
<i>Required <sup>1</sup></i>		
<i>Theatre</i>		
THEATRE 408	Acting in Musical Theatre	3
THEATRE 431	Stage Voice and Speech 2	3
THEATRE 470	Acting Technique 3	3
THEATRE 471	Acting Technique 4	3
THEATRE 475	Rehearsal and Performance: (Select 6 credits [Variable credit as assigned/ cast])	6
<i>Music</i>		
MUSIC 101	Fundamentals of Music <sup>1</sup>	
MUSIC 123	Aural Theory I	1
MUSIC 142	Class Voice for Musical Theater Level I	2
MUSIC 143	Class Voice for Music Theatre Level II	2
Select 1 Voice Ensemble for 1 semester		1
MUSPERF 1	Fundamentals of Piano:	1
or MUSPERF 101	Lessons in Piano	
MUSPERF 111	Lessons in Voice (complete 2 semesters of 1 credit)	2
MUSPERF 412	Voice Lessons for Musical Theatre (complete 4 semesters of 2 credits)	8
<i>Dance</i>		
DANCE 111	Ballet I	2
DANCE 112	Contemporary Dance Practice: Ballet Tradition II	2
DANCE 117	Tap I	2
DANCE 122	African Dance & Diaspora Technique I	3
DANCE 251	Laban/Bartenieff Movement Analysis <sup>1</sup>	
DANCE 327	Dance for the Musical Theatre I	2
DANCE 427	Dance for the Musical Theatre II	2

Choose 2 of the following not previously taken: 4

DANCE 113	Modern Dance Technique I	
DANCE 114	Contemporary Dance Practice: Modern Tradition II	
DANCE 115	Jazz Dance I	
DANCE 116	Jazz Dance II	
DANCE 211	Contemporary Dance Practice: Ballet Tradition III	

Choose 1 of the following: 2

DANCE 103	Introduction to Yoga	
DANCE 321	Alexander Technique for the Performer	
DANCE 323	Body Conditioning: Pilates Method	
DANCE 624	Feldenkrais for Performers	

Choose 1 of the following: 1

DANCE 490	Repertoire and Ensemble (repeatable)	
DANCE 491	Repertory/Student Choreographer	

**Electives**

Select electives in music, theatre, or dance as discussed with advisor 6

**Total Credits 61**

<sup>1</sup> Credits from MUSIC 101 and DANCE 251 fulfill 6 credits of PSOA requirements in the University Core.

## Acting: Example of Required Courses in 4-Year Plan

Year 1		Credits
<b>Fall</b>		
University Core: General Education Requirements		6
THEATRE 110	Fundamentals of the Actor's Process	3
THEATRE 225	Costume Construction	2
THEATRE 305	The Theatrical Experience:	3
<b>Credits</b>		<b>14</b>
<b>Spring</b>		
University Core: General Education Requirements		6
THEATRE 214	Stagecraft	4
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 236	Theatre Production and Design	3
<b>Credits</b>		<b>16</b>
<b>Year 2</b>		
<b>Fall</b>		
THEATRE 213	Play Analysis	3
THEATRE 430	Stage Voice and Speech 1	3
THEATRE 440	Physical Performance 1	3
THEATRE 470	Acting Technique 3	3
University Core: General Education Requirements		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
THEATRE 275	Performing Arts Management	3
THEATRE 431	Stage Voice and Speech 2	3
THEATRE 441	Physical Performance 2	3
THEATRE 471	Acting Technique 4	3
THEATRE 475	Rehearsal and Performance:	2
University Core: General Education Requirements		3
<b>Credits</b>		<b>17</b>

**Year 3**

Fall		
THEATRE 321	The Theatre: Beginnings Through Realism	3
THEATRE 530	Stage Voice and Speech 3	3
THEATRE 540	Physical Performance 3	3
THEATRE 570	Acting 5	3
University Core: Required Elective		3
<b>Credits</b>		<b>15</b>

Spring		
THEATRE 322	The Theatre: Modern and Contemporary Period	3
THEATRE 475	Rehearsal and Performance:	2
THEATRE 531	Stage Voice and Speech 4	3
THEATRE 541	Physical Performance 4	3
THEATRE 571	Acting 6	3
University Core: Required Electives		3
<b>Credits</b>		<b>17</b>

Year 4		
<b>Fall</b>		
THEATRE 330	Acting Topics: (Topic: Acting for the Camera)	3
THEATRE 475	Rehearsal and Performance:	2
University Core: Required Elective		3
PSOA Core: Required Elective		6
Theatre Electives: Degree Electives		3
<b>Credits</b>		<b>17</b>

Spring		
University Core: Required Elective		3
PSOA Core: Required Elective		3
THEATRE 463	Master Class in Professional Theatre Study	3
Theatre Electives: Degree Electives		6
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>126</b>

## Musical Theatre: Example of Required Courses in 4-Year Plan

Year 1		Credits
<b>Fall</b>		
DANCE 111	Ballet I	2
MUSPERF 1 or MUSPERF 101	Fundamentals of Piano: or Lessons in Piano	1
MUSIC 142	Class Voice for Musical Theater Level I	2
MUSIC XXX	Choral Ensemble	1
THEATRE 110	Fundamentals of the Actor's Process	3
THEATRE 214	Stagecraft	4
THEATRE 305	The Theatrical Experience:	3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
DANCE 112	Contemporary Dance Practice: Ballet Tradition II	2
MUSIC 143	Class Voice for Music Theatre Level II	2
MUSIC 101	Fundamentals of Music	3
THEATRE 230	Acting 2: Text and Performance	3
University Core: General University Requirement		6
<b>Credits</b>		<b>16</b>
<b>Year 2</b>		
<b>Fall</b>		
DANCE 122	African Dance & Diaspora Technique I	3
MUSPERF 111	Lessons in Voice	1
MUSIC 123	Aural Theory I	1
THEATRE 213	Play Analysis	3
THEATRE 225	Costume Construction	2
THEATRE 236	Theatre Production and Design	3

University Core: General University Requirement		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
Choose 1 not previously taken:		2
DANCE 113	Modern Dance Technique I	
DANCE 115	Jazz Dance I	
DANCE 211	Contemporary Dance Practice: Ballet Tradition III	
MUSPERF 111	Lessons in Voice	1
THEATRE 275	Performing Arts Management	3
THEATRE 475	Rehearsal and Performance:	2
University Core: General University Requirement		3
Elective: (Outside of PSOA)		6
<b>Credits</b>		<b>17</b>
<b>Year 3</b>		
<b>Fall</b>		
DANCE 117	Tap I	2
Choose 1 not previously taken:		2
DANCE 113	Modern Dance Technique I	
DANCE 114	Contemporary Dance Practice: Modern Tradition II	
DANCE 115	Jazz Dance I	
DANCE 116	Jazz Dance II	
DANCE 211	Contemporary Dance Practice: Ballet Tradition III	
MUSPERF 412	Voice Lessons for Musical Theatre	2
THEATRE 470	Acting Technique 3	3
Elective: (Dance, Music, or Theatre)		2
PSOA Elective: (Art or Film)		3
University Core: General University Requirement		3
<b>Credits</b>		<b>17</b>
<b>Spring</b>		
Choose 1 of the following:		2
DANCE 103	Introduction to Yoga	
DANCE 321	Alexander Technique for the Performer	
DANCE 323	Body Conditioning: Pilates Method	
DANCE 624	Feldenkrais for Performers	
MUSPERF 412	Voice Lessons for Musical Theatre	2
THEATRE 431	Stage Voice and Speech 2	3
THEATRE 471	Acting Technique 4	3
THEATRE 475	Rehearsal and Performance:	2
Elective: (Outside of PSOA)		3
Elective: (Dance, Music, or Theatre)		2
<b>Credits</b>		<b>17</b>
<b>Year 4</b>		
<b>Fall</b>		
DANCE 251	Laban/Bartenieff Movement Analysis	3
DANCE 327	Dance for the Musical Theatre I	2
THEATRE 408	Acting in Musical Theatre	3
MUSPERF 412	Voice Lessons for Musical Theatre	2
THEATRE 475	Rehearsal and Performance:	2
THEATRE 322	The Theatre: Modern and Contemporary Period	3
Elective: (Outside of PSOA)		3
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
DANCE 427	Dance for the Musical Theatre II	2
MUSPERF 412	Voice Lessons for Musical Theatre	2
DANCE 490	Repertoire and Ensemble	1
or DANCE 491	or Repertory/Student Choreographer	
Elective: (Dance, Music, or Theatre)		2
Choose 1 of the following		3
THEATRE 321	The Theatre: Beginnings Through Realism	
THEATRE 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	

University Core: General University Requirement		3
<b>Credits</b>		<b>13</b>
<b>Total Credits</b>		<b>130</b>

## Advance to Major/Retention

To be accepted and continue in good standing within any Theatre degree program, students must meet or exceed all general university requirements, have and maintain a 2.5 GPA overall (with the exception of Theatre Education majors). BA degree majors must also maintain a 2.75 GPA within the major. Theatre Education majors must maintain a 3.0 in the major. All BFA degree majors must maintain a 3.0 in the major. Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students will be put on probation inside the major, and may be denied continuation in their program, if they receive a D grade or lower in any Theatre Core courses, which are:

Code	Title	Credits
THEATRE 110	Fundamentals of the Actor's Process	3
THEATRE 204	Theatre and Social Change	3
THEATRE 213	Play Analysis	3
THEATRE 214	Stagecraft	4
THEATRE 225	Costume Construction	2
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 236	Theatre Production and Design	3
THEATRE 260	Storytelling:	3
THEATRE 275	Performing Arts Management	3
THEATRE 305	The Theatrical Experience:	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
THEATRE 322	The Theatre: Modern and Contemporary Period	3

As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test, or a portfolio equivalent as determined by the program, before being allowed to engage in their student teaching fieldwork.

## Continuation

Students who are in danger of being dropped from the program, or put on probation, will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee and the Theatre Department Chair. Appeals committee findings will be given to the student in writing and in a timely manner.

## Application Process

The Theatre BFA is in compliance with all general requirements for undergraduate degrees including the general education, continuation, and laptop program requirements. Admission to each BFA track is based on an audition (Acting, Musical Theatre) or interview (Production). Prospective students are encouraged to pre-audition or pre-apply to the Theatre BFA programs during their senior year of high school. Accepted students will gain full admission to their BFA Program on successful completion of their GER core competency requirements.



For more information on the application process and to apply online go to: [uwm.edu/arts/theatre/](http://uwm.edu/arts/theatre/) (<http://uwm.edu/arts/theatre/>)

Application to the BFA is encouraged following successful completion of the first-year (Freshman) Theatre Core sequence (see suggested schedule on Plan of Study tab).

BFA program applicants must submit the following:

1. A separate application form; New (<http://uwm.edu/arts/apply/>)
2. A statement of purpose;
3. A current resume;
4. Copies of high school or appropriate college transcripts (for transfer students). [Unofficial copies are acceptable for departmental purposes.];
5. Two confidential letters of recommendation, preferably from instructors familiar with the student's artistic and/or academic abilities. Letters should be submitted in signed and sealed envelopes or sent electronically directly from the recommender and will remain confidential and the property of UWM; and
6. Acting and Musical Theatre candidates should submit a headshot or other suitable photo.

Freshman and transfer applicants must additionally complete the UWM admission process, be accepted into the university, and send separate copies of transcripts and letters of recommendations directly to the department.

All materials may be submitted to the department electronically.

Following review of applications, all candidates will be contacted for interviews or, for Acting and Musical Theatre candidates, participate in an entrance audition. In the Production interview, candidates will have an opportunity to present representative samples of their work/experience in theatre or related skill areas and to chat with the faculty about their goals. The interview allows time to talk about the Production curriculum and to explore the specific interests of the candidate. Based on this interview, faculty can craft and advise an individualized and challenging arc of training from the many production classes in scenery, lights, sound, props, costumes, and stage management, as well as opening the entire PSOA class offerings to explore the connections between theatre and all the arts.

Acceptance into the BFA in Musical Theatre requires a successful audition and application packet prior to beginning in the theatre major, either as an incoming freshman or transfer student. Acceptance into the BFA in Acting requires a successful audition and application that may be made either prior to entering the major as an incoming freshman or transfer student or at the completion of the first year (freshman) Theatre Core sequence.

## Additional Musical Theatre Entrance Requirements

Some required courses of the Musical Theatre Track have placement-level testing. As part of the Musical Theatre entrance audition, students take Piano and Theory Placement Exams to determine in which level of piano and music theory to enroll.

- **Piano:** Depending on audition results, a student may be required to enroll in MUSPERF 1 for two semesters. Proficiency for these courses requires a passing grade of B or better. If piano proficiency can be demonstrated through the Piano Placement Exam, one semester of piano lessons at the MUSPERF 101 level is required.

- **Theory:** Depending on exam results, a student may be required to enroll in MUSIC 101, or test into MUSIC 123 with 3 additional credits available toward electives. Proficiency for these courses requires a passing grade of C or better.

## End-of-Semester Review Process

BFA Theatre faculty will assess students' academic and artistic growth through individual conferences at the end of each semester.

## Student Evaluation

All BFA Theatre majors who do not demonstrate a consistent level of artistic and academic improvement, have and maintain a 2.5 GPA overall, and maintain at least a 3.0 GPA in their program may not advance, may be placed on probation, and/or dropped from the program.

## Appeal Process

Any BFA Theatre major who is dropped from the program has the right to appeal. The appeals committee will consist of two full-time, tenured or tenure track faculty, or teaching academic staff, from the Peck School of the Arts, a faculty member of the student's own choosing, and the faculty member who oversees the specific degree track. In addition, a Peck School of the Arts Student Services advisor will be present as a non-voting member. Outcome(s) of the appeal will be given to the student in writing and in a timely manner.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (closed on university holidays)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Theatre, BFA: Production

The Bachelor of Fine Arts (BFA) in Theatre provides intensive specialized coursework for students seeking professional training in one of two separate tracks:

- Performance
  - The **Performance** BFA has two 130-credit tracks in either Acting or Musical Theatre.
- Production
  - The **Production** BFA is a singular 120-credit track embracing all the areas of production including design, costume, prop, scenery, lighting, sound, and stage management.

The BFA focuses on uncovering the potential of the individual student in the development of personal performance and/or production practices. The BFA curriculum supports student exploration of theatrical processes including new works as well as the established canon of dramatic literature. The program approaches the work in fresh and innovative ways, giving students a wide range of tools to speak to the contemporary moment both as actors on stage and as artists in production studios, rehearsal halls, and backstage.

The specialized tracks in the BFA build on the objectives of the department's core curriculum to nurture within each student a deepened, strengthened, and developing professional level of competency. Each track of specialization follows an integrated curriculum based on an intensive, specialized array of courses. These focused arcs of training endow students with a sense of their own identity as artists. Students must continue to show artistic growth and progress and meet academic grade requirements (see Requirements tab) to continue in the program. Admission to each BFA track is selective and progress reviews are conducted each semester allowing for direct feedback to the student and a chance to explore changing interests or career paths.

- **BFA Acting:** The program builds on the objectives of the department's core curriculum to develop within the student a deepened, strengthened, and professional level of competency in acting and a sense of identity as a performing artist. It prepares students for advanced graduate study in performance or entry into the profession of theatre practice. To help students develop as complete artists, our program emphasizes an understanding of essential acting theories, principles of voice production, flexible speech techniques, physical communication, physical structures of character, principles of Dramatic Action and Storytelling, and personal artistic practice. Research specific to an actor's work, objective and subjective/affective, is demonstrated as a core principle to artistic development. Students are guided through the process of self critique to gain the ability to prescribe solutions and/or new directions for artistic development, and gain an understanding of professional modes of behavior, preparation, and competency
- **BFA Musical Theatre:** Combining three major performing disciplines, Music, Dance, and Theatre, this program trains students to succeed as versatile performing artists. Our students annually perform in carefully chosen musical productions essential to pre-professional training, and hone a range of practical and creative skills consistent with their professional and personal goals. Students will be trained thoroughly in the performance skills necessary to compete in the professional world of musical theatre. Included in this track are a solid developmental and pedagogical foundation in music (voice, theory and musicianship, piano, large and small music ensembles), dance (history of the musical theatre art form, ballet, tap, jazz, and theatre dance), and theatre (acting, play analysis, and theatre production).
- **BFA Production:** Our multi-faceted Theatre Production program trains students to be competitive in a variety of fields, including technical production, stage management and design, costume production, and more. Offering professional training experiences as early as Freshman year, our students go on to work in a variety of related industry careers. The Production BFA utilizes the foundation of theatre to explore the uniquely collaborative artistic and artisanal processes that create and support compelling storytelling in live performance. The program allows for specialization in the areas of costumes, lighting, properties, scenery, sound/video and stage management but is flexible enough for cross disciplinary studies tailored to the student's specific interests.

## Requirements

### Laptop Requirement

Preparing for a future defined by digital technology is an important step in developing artists. Our digitally integrated curriculum helps you achieve a professional level with leading art-related software and practices.

Laptop ownership is strongly recommended for *all* undergraduates. However, it's required for the programs below. For more information please visit the Peck School of the Arts admission page (<https://uwm.edu/arts/apply/>).

- Art & Design (BA and BFA Programs)
- Dance (BA and BFA Programs)
- Film, Video, Animation & New Genres (BA and BFA Programs)
- Music (Composition & Technology Program)
- Theatre (BFA Production and BA Theatre Education Programs)

## University Core

Code	Title	Credits
<b>General Education Requirements <sup>1</sup></b>		
<i>Competencies <sup>1</sup></i>		
Oral and Written Communication – Part A and Part B <sup>2,3</sup>		
Quantitative Literacy (QL) – Part A and Part B <sup>2,3</sup>		
Foreign Language <sup>2,3</sup>		
<i>Distribution Requirements <sup>1</sup></i>		
	Humanities	6
	Natural Sciences (Must include one lab)	6
	Social Sciences	6
Cultural Diversity <sup>2</sup>		
<b>Electives</b>		
	University Credits (outside of PSOA)	12
	Credits in Peck School of the Arts <sup>4</sup>	9
<b>Total Credits</b>		<b>39</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 30).

<sup>2</sup> Credits may be utilized in conjunction with General Education Social Sciences, Humanities, or Arts credits. See advisor for guidance.

<sup>3</sup> Theatre students must complete the General Education Requirements (GER) in Oral and Written Communication competency (OWC), Quantitative Literacy competency (QL), and Foreign Language proficiency prior to enrolling in 310-level or above theatre courses.

<sup>4</sup> 9 credits are required in 3 of the 4 other departments in PSOA, outside of the student's discipline: Art and Design, Dance, Music, Theatre, or Film, Video, Animation, and New Genres.

The minimum number of credits required to complete the Bachelor of Fine Arts in Production is 120. Students who need background preparation courses in math, English, foreign language, and chemistry may need additional credits.

## Theatre Department Core

Code	Title	Credits
Select one of the following: 3		
THEATRE 110	Fundamentals of the Actor's Process (recommended)	3
THEATRE 260	Storytelling: (alternate)	3
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 213	Play Analysis	3
THEATRE 214	Stagecraft (with lab)	4
THEATRE 225	Costume Construction (with lab)	2
THEATRE 236	Theatre Production and Design	3
THEATRE 275	Performing Arts Management	3
THEATRE 305	The Theatrical Experience:	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
Select one of the following: 3		
THEATRE 322	The Theatre: Modern and Contemporary Period	3

THEATRE 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	
<b>Total Credits</b>		<b>30</b>

## BFA Production Track Requirements and Electives

Code	Title	Credits
<i>Required</i>		
THEATRE 202	Theatre Practicum	1
THEATRE 412	Career Preparation and Development	2
Select 8 total credits from the following: 8		
THEATRE 575	Studio (4 credit per semester, repeatable)	
THEATRE 475	Rehearsal and Performance: (variable credit by assignment)	
Select 7 total credits from the following: 7		
THEATRE 432	Advanced Theatre Practicum	
THEATRE 675	Advanced Studio (repeatable)	
THEATRE 685	Internship in Professional Theatre (variable credit)	

### Production Area Electives

Select 33 Production or related credits		33
<b>Total Credits</b>		<b>51</b>

### Production Area Electives

In consultation with your PSOA and Production advisor, select courses from within the Production Curriculum, outside the Production Curriculum, or any other program in PSOA.

Code	Title	Credits
<b>Within the Production Curriculum</b>		
THEATRE 215	Properties Production	3
THEATRE 218	Computer Modeling and Graphics for Live Performance	3
THEATRE 224	Make-Up	3
THEATRE 285	Costume Construction 2	3
THEATRE 304	Costume Design	3
THEATRE 314	Special Effects for Stage Scenery	3
THEATRE 318	Scene Design	3
THEATRE 319	Scenic Painting	3
THEATRE 325	History of Costume	3
THEATRE 337	Sound Production and Digital Editing for Stage and Studio	3
THEATRE 338	Lighting Production	3
THEATRE 343	Patternmaking	3
THEATRE 380	Stage Management	3
THEATRE 418	Lighting Studio	3
THEATRE 435	Production Management	3
THEATRE 437	Sound Design and Digital Editing	3
THEATRE 448	How to be a Teaching Artist	3
THEATRE 480	Leadership Skills for Theatre Management	3
THEATRE 699	Independent Study:	1-4
<b>Outside the Production Curriculum</b>		
THEATRE 410	Stage Directing	3

THEATRE 497 Study Abroad in Theatre 1-12

**Peck School of the Arts**

Consult with Theatre Production advisor

## Example of Required Courses in a 4-Year Plan

**Year 1****Fall**

THEATRE 110 Fundamentals of the Actor's Process 3

THEATRE 214 Stagecraft 2-4  
or THEATRE 225 or Costume Construction

THEATRE 305 The Theatrical Experience: 3

GER 6

**Credits** 16**Spring**

THEATRE 202 Theatre Practicum 1

THEATRE 225 Costume Construction 2-4  
or THEATRE 214 or Stagecraft

THEATRE 230 Acting 2: Text and Performance 3

THEATRE 236 Theatre Production and Design 3

GER 6

**Credits** 15**Year 2****Fall**

THEATRE 275 Performing Arts Management 3

Production Electives 6

GER 6

**Credits** 15**Spring**

THEATRE 213 Play Analysis 3

THEATRE 575 Studio 2  
or THEATRE 475 or Rehearsal and Performance:

Production Electives 3

GER/PSOA 6

**Credits** 14**Year 3****Fall**

THEATRE 321 The Theatre: Beginnings Through Realism 3

THEATRE 412 Career Preparation and Development 2

THEATRE 575 Studio 2  
or THEATRE 475 or Rehearsal and Performance:

Production Electives 6

GER/PSOA 3

**Credits** 16**Spring**THEATRE 322 The Theatre: Modern and Contemporary Period 3  
or THEATRE 324 or Theatre in the Americas: Latin American, Caribbean,  
and Latinx TheatreTHEATRE 575 Studio 4  
or THEATRE 475 or Rehearsal and Performance:

Production Electives 6

GER/PSOA 3

**Credits** 16**Year 4****Fall**

THEATRE 675 Advanced Studio 4

Production Electives 6

GER/PSOA 3

**Credits** 13**Spring**THEATRE 432 Advanced Theatre Practicum 3  
or THEATRE 685 or Internship in Professional Theatre

Production Electives 6

GER 6

**Credits** 15**Total Credits** 120

## Advance to Major/Retention

To be accepted and continue in good standing within any Theatre degree program, students must meet or exceed all general university requirements, have and maintain a 2.5 GPA overall (with the exception of Theatre Education majors). BA degree majors must also maintain a 2.75 GPA within the major. Theatre Education majors must maintain a 3.0 in the major. All BFA degree majors must maintain a 3.0 in the major. Additionally, all Theatre majors in all programs must pass all Theatre Core courses with a C grade or better. Students will be put on probation inside the major, and may be denied continuation in their program, if they receive a D grade or lower in any Theatre Core courses, which are:

Code	Title	Credits
THEATRE 110	Fundamentals of the Actor's Process	3
THEATRE 204	Theatre and Social Change	3
THEATRE 213	Play Analysis	3
THEATRE 214	Stagecraft	4
THEATRE 225	Costume Construction	2
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 236	Theatre Production and Design	3
THEATRE 260	Storytelling:	3
THEATRE 275	Performing Arts Management	3
THEATRE 305	The Theatrical Experience:	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
THEATRE 322	The Theatre: Modern and Contemporary Period	3

As per Wisconsin State statutes, all Theatre Education students must also pass the Praxis II Theatre Content test, or a portfolio equivalent as determined by the program, before being allowed to engage in their student teaching fieldwork.

## Continuation

Students who are in danger of being dropped from the program, or put on probation, will receive a written warning. Any Theatre student who is dropped or suspended from his/her program (due to failing/low grades and/or academic misconduct) has the right to an appeal. Any student wishing to appeal must inform the Chair and his/her Area Head of their interest and in writing. Students must then meet with the Chair and the Area Head to discuss their appeal. The appeal may then be forwarded to the Theatre Department Appeals Committee and the Theatre Department Chair. Appeals committee findings will be given to the student in writing and in a timely manner.

## Application Process

The Theatre BFA is in compliance with all general requirements for undergraduate degrees including the general education, continuation, and laptop program requirements. Admission to each BFA track is based on an audition (Acting, Musical Theatre) or interview (Production).

Prospective students are encouraged to pre-audition or pre-apply to the Theatre BFA programs during their senior year of high school. Accepted students will gain full admission to their BFA Program on successful completion of their GER core competency requirements. For more information on the application process and to apply online go to: [uwm.edu/arts/theatre/](http://uwm.edu/arts/theatre/) (<http://uwm.edu/arts/theatre/>)

Application to the BFA is encouraged following successful completion of the first-year (Freshman) Theatre Core sequence (see suggested schedule on Plan of Study tab).

BFA program applicants must submit the following:

1. A separate application form; New (<http://uwm.edu/arts/apply/>)
2. A statement of purpose;
3. A current resume;
4. Copies of high school or appropriate college transcripts (for transfer students). [Unofficial copies are acceptable for departmental purposes.];
5. Two confidential letters of recommendation, preferably from instructors familiar with the student's artistic and/or academic abilities. Letters should be submitted in signed and sealed envelopes or sent electronically directly from the recommender and will remain confidential and the property of UWM; and
6. Acting and Musical Theatre candidates should submit a headshot or other suitable photo.

Freshman and transfer applicants must additionally complete the UWM admission process, be accepted into the university, and send separate copies of transcripts and letters of recommendations directly to the department.

All materials may be submitted to the department electronically.

Following review of applications, all candidates will be contacted for interviews or, for Acting and Musical Theatre candidates, participate in an entrance audition. In the Production interview, candidates will have an opportunity to present representative samples of their work/experience in theatre or related skill areas and to chat with the faculty about their goals. The interview allows time to talk about the Production curriculum and to explore the specific interests of the candidate. Based on this interview, faculty can craft and advise an individualized and challenging arc of training from the many production classes in scenery, lights, sound, props, costumes, and stage management, as well as opening the entire PSOA class offerings to explore the connections between theatre and all the arts.

## End-of-Semester Review Process

BFA Theatre faculty will assess students' academic and artistic growth through individual conferences at the end of each semester.

## Student Evaluation

All BFA Theatre majors who do not demonstrate a consistent level of artistic and academic improvement, have and maintain a 2.5 GPA overall, and maintain at least a 3.0 GPA in their program may not advance, may be placed on probation, and/or dropped from the program.

## Appeal Process

Any BFA Theatre major who is dropped from the program has the right to appeal. The appeals committee will consist of two full-time, tenured or tenure track faculty, or teaching academic staff, from the Peck School of the Arts, a faculty member of the student's own choosing, and the

faculty member who oversees the specific degree track. In addition, a Peck School of the Arts Student Services advisor will be present as a non-voting member. Outcome(s) of the appeal will be given to the student in writing and in a timely manner.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or greater in the major and the academic department's recommendation.

High Honors in the Major is granted to students who have earned a cumulative GPA of 3.500 or greater and the academic department's recommendation.

Departmental Honors are granted to students recommended by their academic department for Honors excellence in performance not reflected in the GPA.

Dean's Honors are granted to students with major achievements in one or more of the arts.

## College of the Arts and Architecture Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Theatre, Minor

The Theatre Minor study supports active learning thorough participation in theatre processes and practices. The Theatre Minor also focuses on creativity and communication skills within the dramatic and theatrical arts. It is extremely relevant to other areas of academic study across the University.

## Requirements

Code	Title	Credits
<b>Required</b>		
Select one of the following theatre-literacy courses:		3
THEATRE 100	Introduction to the Theatre	
THEATRE 213	Play Analysis	
THEATRE 150	Multicultural America:	
THEATRE 305	The Theatrical Experience:	
Select one of the following production/management courses:		3
THEATRE 236	Theatre Production and Design	
or THEATRE 275	Performing Arts Management	
Select one of the following performance courses:		3
THEATRE 101	Acting for Non-majors	
THEATRE 111	Theatre Games	
THEATRE 204	Theatre and Social Change	
THEATRE 260	Storytelling:	
<b>Electives</b>		
Select 9 Theatre elective credits <sup>1</sup>		9
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Students are required to take at least 6 credits at the 300 level or above. Students should work with their Theatre advisor to choose which courses meet individual interests and needs.

## Theatre Electives

Code	Title	Credits
THEATRE 100	Introduction to the Theatre (if not already taken)	3
THEATRE 101	Acting for Non-majors (if not already taken) <sup>1</sup>	3
or THEATRE 110	Fundamentals of the Actor's Process	
THEATRE 111	Theatre Games (if not already taken)	3
THEATRE 202	Theatre Practicum	1-4
THEATRE 204	Theatre and Social Change (if not already taken)	3
THEATRE 213	Play Analysis (if not already taken)	3
THEATRE 214	Stagecraft (with lab)	4
THEATRE 215	Properties Production	3
THEATRE 218	Computer Modeling and Graphics for Live Performance	3
THEATRE 224	Make-Up	3

THEATRE 225	Costume Construction	2
THEATRE 230	Acting 2: Text and Performance	3
THEATRE 236	Theatre Production and Design (if not already taken)	3
THEATRE 260	Storytelling: (if not already taken)	3
THEATRE 275	Performing Arts Management (if not already taken)	3
THEATRE 304	Costume Design	3
THEATRE 305	The Theatrical Experience: (if not already taken)	3
THEATRE 311	Improvisation	3
THEATRE 318	Scene Design	3
THEATRE 321	The Theatre: Beginnings Through Realism	3
THEATRE 322	The Theatre: Modern and Contemporary Period	3
THEATRE 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	3
THEATRE 325	History of Costume	3
THEATRE 330	Acting Topics:	3
THEATRE 337	Sound Production and Digital Editing for Stage and Studio	3
THEATRE 338	Lighting Production	3
THEATRE 359	Playwriting	3
THEATRE 380	Stage Management	3
THEATRE 410	Stage Directing	3
THEATRE 418	Lighting Studio	3
THEATRE 437	Sound Design and Digital Editing	3
THEATRE 448	How to be a Teaching Artist	3
THEATRE 475	Rehearsal and Performance:	2-3
THEATRE 497	Study Abroad in Theatre	1-12

<sup>1</sup> Minor cannot include both THEATRE 101 and THEATRE 110.

## Advising

**Location:** Theatre 120

**Hours:** M–Th 9 a.m. to 4 p.m. | Fri. 9 a.m. to 2 p.m. (*closed on university holidays*)

**Contact:** 414-229-4763 | Contact Form (<https://uwm.edu/arts/contact/>)

Academic advising is an important aspect of long-term academic success. At the Peck School of the Arts, we offer professional advising in the undergraduate disciplines of art, dance, film, music and theatre.

Our advisors provide students with individualized appointments to assist them in areas such as: degree requirements, major options, course selection, campus resources, college success strategies, graduation assessment, academic policies and procedures, and more.

For more information please visit the Peck School of the Arts advising and student services page (<https://uwm.edu/arts/students/advising/>).

# BUSINESS (SHELDON B. LUBAR COLLEGE OF)

The UWM Sheldon B. Lubar College of Business is a major metropolitan business school committed to academic excellence. Because of its metropolitan location, the College offers several advantages. Milwaukee-area firms provide an exciting, real-world laboratory for students to gain valuable insights and skills in their chosen professional fields as well as providing part-time or full-time employment opportunities. Students can also gain practical work experience by participating in internship programs. Business leaders from the community participate in College activities, both in the classroom and on the College's advisory councils.

High-quality management education that incorporates state-of-the-art technology is delivered to a diverse group of graduate and undergraduate students and practicing executives and professionals. We address the professional development and lifelong learning needs of individuals.

Through scholarly research, we advance knowledge pertaining to management decision making and practice and further enrich our teaching effectiveness.

Our undergraduate degree programs provide students with a career foundation leading to managerial advancement and/or entrepreneurial careers.

Our master's degree programs prepare students to assume general management or functional specialist positions, with potential for senior-level leadership positions or entrepreneurial careers.

Our doctoral degree programs prepare students for research and teaching careers in higher education and research careers in industry.

Our executive education programs provide customized problem solving for organizations.

We also employ our professional skills in service to the College, University, scholarly and professional organizations, and the regional business community. We capitalize on the diversified resources of the Metropolitan Milwaukee business community and use them as a living laboratory to enrich our scholarly and instructional pursuits.

## AACSB Accreditation

The Lubar College of Business has been continuously accredited by AACSB International for over 45 years. Why is this important? Because business schools accredited by AACSB International are considered to be the best business schools in the world – in fact, only 5% of business schools worldwide have this distinction. AACSB-accredited schools have tougher quality standards for programs and faculty, better students with higher overall GPAs, more employers that recruit from them, and graduates that receive higher salaries.

In addition, the Lubar College of Business accounting programs are separately accredited by AACSB. Lubar College of Business is one of only three accounting schools in the state, and one of 193 schools in the world, with this status.

## Programs

### Undergraduate

- Business of Media and Film Studies, Undergraduate Certificate (Lubar College of Business) (p. 256)

- Business Scholars Program (p. 256)
- Business: Accounting, BBA (p. 257)
- Business: Accounting, BBA: Data Analysis (p. 260)
- Business: Finance, BBA (p. 263)
- Business: General Business, BBA (p. 266)
- Business: Human Resources Management, BBA (p. 270)
- Business: Information Technology Management, BBA (p. 273)
- Business: Marketing, BBA (p. 276)
- Business: Supply Chain and Operations Management, BBA (p. 279)
- Enterprise Resource Planning, Undergraduate Certificate (p. 285)
- Entrepreneurship, Undergraduate Certificate (p. 287)
- General Business, Minor (p. 292)
- Global Studies, BA: Global Management (p. 292)
- International Business, Undergraduate Certificate (p. 297)
- Investment Management, Undergraduate Certificate (p. 299)
- Real Estate, Undergraduate Certificate (p. 314)
- Technology Entrepreneurship, Undergraduate Certificate (p. 316)

### Graduate

- Business Administration, MBA (p. 251)
- Business Administration, MBA/Information Technology Management, MS (p. 252)
- Business Administration, MBA/Nursing Practice, DNP (p. 253)
- Business Administration, MBA/Translation and Interpreting Studies, MA (p. 254)
- Business Analytics, Graduate Certificate (p. 255)
- Digital Supply Chain Management, Graduate Certificate (p. 282)
- Digital Supply Chain Management, MS (p. 283)
- Enterprise Resource Planning, Graduate Certificate (p. 284)
- Entrepreneurship, Graduate Certificate (p. 286)
- Executive, MBA (p. 287)
- Executive, MBA: Global Strategic Leadership (p. 288)
- Executive, MBA: Integrated Health Care Leadership (p. 290)
- Finance, Graduate Certificate (p. 291)
- Health Care Management, Graduate Certificate (p. 293)
- Human Resources and Labor Relations, MHRLR (Lubar College of Business) (p. 294)
- Information Technology Management, MS (p. 295)
- Information Technology Management, MS: AI and Data Analytics (p. 296)
- Investment Management, Graduate Certificate (p. 298)
- Management Science, PhD (p. 299)
- Management, MS: Accounting (p. 301)
- Management, MS: Finance Analysis (p. 302)
- Management, MS: Marketing (p. 303)
- Management, MS: Professional Accounting (p. 305)
- Marketing, Graduate Certificate (p. 306)
- Nonprofit Management and Leadership, MS (Lubar College of Business) (p. 307)
- Nonprofit Management, Graduate Certificate (Lubar College of Business) (p. 308)
- Organizational Leadership in Diversity, Equity and Inclusion, Graduate Certificate (p. 309)

- Public Administration, MPA (Lubar College of Business) (p. 310)
- Public Administration, MPA/Criminal Justice and Criminology, MS (p. 312)
- Public Administration, MPA/Urban Planning, MUP (p. 313)
- Taxation, Graduate Certificate (p. 314)
- Technology Entrepreneurship, Graduate Certificate (p. 316)

## Graduate Policies and Regulations

The Graduate School policies and regulations can be found at Graduate School Policies (p. 31). Please refer to the specific program for program policies and regulations.

### Auditing Graduate Courses

BUS ADM and BUSMGMT 700+ courses must be completed on a graded basis; graduate courses are not available for completion as an audit.

## Undergraduate Program Options

### Multiple Majors

Students interested in completing more than one major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans. Students may double-count up to two major courses between any combination of BBA majors. Accounting majors may also use the Bus Adm 450 requirement towards the Finance or SCOM majors. General Business majors may not select a second major within the Lubar College of Business but may select any number of certificates.

### Joint Degree Program

A student who plans to pursue a joint degree business program with another UWM college or school should seek advising early to design an appropriate program. The student must concurrently complete all requirements for the degree in the area other than the Lubar College of Business, as well as the requirements in the Lubar College of Business, as indicated below in the requirements for a second bachelor's degree. A student electing to pursue a joint degree should submit a proposed program of study to the Lubar College of Business as soon as possible.

### Second Bachelor's Degree

A student with an accredited bachelor's degree may work toward a second bachelor's degree in the Lubar College of Business. Interested students should contact the academic advisors in Room N297 of Lubar Hall for further details. The second bachelor degree program is not offered in Accounting.

Degree requirements include completion of these BBA requirements:

- functional courses
- administrative analysis and techniques courses
- a professional major, and
- mathematics and economics courses.

Of these, at least 30 credits must be earned in residence at UWM while classified as a second-degree candidate. Students may receive credit towards a second bachelor's degree for coursework taken in equivalent areas at other institutions. However, at least 50% of the business credit hours required for the business degree must be completed at UWM.

## Business Special Student Options

Business Special Student status is available to applicants who have earned a baccalaureate degree at an accredited university or college. Also eligible for consideration are students needing coursework to complete a degree from another accredited institution, students in an international exchange program, or students who were admitted to UWM as a University Special Student with the ultimate goal of becoming degree-seeking in a business major. Business Special Students are eligible to take undergraduate courses only.

An official degree transcript of all university work, along with a statement of goals and objectives as a special student with a listing of requested courses, should be submitted directly to the Lubar College of Business Undergraduate Student Services (Room N297, Lubar Hall, uwmbba@uwm.edu).

## Post-baccalaureate Opportunities

Students who have completed a BBA degree at UWM can return to the campus and complete an additional business major. Students who have completed a bachelor's degree in business at another accredited university can earn a Certificate of Major in the College. The Certificate of Major consists of a minimum of 12 UWM degree credits. This additional major option is not available in Accounting or General Business.

## Certificate Option

Students have the option to complete one or more certificates in conjunction with BBA majors. No more than 50% of each certificate's credits may double count towards BBA Core or Major requirements.

## Academic Regulations

For information on the University-wide Academic Action Policy and honors for scholarship, see Academic Policies (p. 22).

## Student Academic Appeals

Students may appeal an academic action to the appropriate curriculum committee. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted electronically to Lubar Undergraduate Student Services. Undergraduate student appeals are reviewed by the College's Undergraduate Program Committee's Appeals Subcommittee. Students are advised in writing of the decision of the Committee. The Appeals Subcommittee considers individual cases concerning the degree requirements and other academic rules and regulations established by the Lubar College of Business faculty.

The Lubar College of Business has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Student Services Center. As a first step, students must discuss the grievance with the faculty member or administrator within 30 working days from the date of the action that prompted the grievance.

## Two-thirds Credit Policy

If a course taken towards a particular requirement within the Business Foundation, Business Core, or Major Requirements is completed for fewer credits than the stated minimum, that requirement shall be considered satisfied if the course satisfies greater than two-thirds of the required credits. The missing credit(s) must be made up through additional Business or General Electives.



## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Lawrence Abbott	Professor	PhD, CPA	University of Oregon		
Layth C. Alwayn	Professor	PhD	University of Chicago		
Grace Ambrose	Lecturer	PhD	Southern Illinois, Carbondale		
Esther Ancel	Lecturer	PhD			✓
Patricia J. Arnold	Professor	PhD, CPA			✓
Bruce A. Bender	Professor	PhD			✓
Amit Bhatnager	Professor and Director PhD Programs	PhD	State University of New York at Buffalo	✓	
Janice Blankenburg	Lecturer	EMBA	Washington University		✓
Colleen Boland	Associate Professor	PhD, CPA	Michigan State University	✓	
Veena Brown	Associate Professor	PhD, CPA	Florida Atlantic University	✓	
Kaushal Chari	Professor and Sheldon B. Lubar Dean	PhD	University of Iowa		
Cheng Chen	Assistant Professor	PhD	University of Illinois at Chicago	✓	
Zheng Cheng	Assistant Professor	PhD	University of Kansas		
Tailan Chi	Notebaert Distinguished Professor of International Business & Global Studies	PhD	University of Washington	✓	
I-Hsuan Chiu	Assistant Professor	PhD	University of Iowa		
Brian Daugherty	Associate Professor	PhD, CPA	University of Texas at San Antonio		✓
Stanislav D. Dobrev	Professor, Robert L. and Sally S. Manegold Chair in Strategic Management	PhD	Stanford University	✓	
Katherine Du	Assistant Professor	PhD	Duke University Fuqua School of Business		
Michael Farrell	Assistant Professor	PhD	University of Kentucky	✓	
Russell W. Fenske	Professor	PhD			✓
Paul M Fischer	Jerry Leer Professor	PhD, CPA	University of Wisconsin-Madison	✓	
Ioannis Floros	Associate Professor	PhD	University of Pittsburgh	✓	
Sarah J. Freeman	Associate Professor	PhD	University of Michigan		✓
Michael Freimark	Senior Lecturer	PhD	Southern Illinois University		
Rachel Gazaryan	Lecturer	MS, CPA	University of Wisconsin- Milwaukee		
Dennis H. Gensch	Professor	PhD			✓
Sanjoy Ghose	Judith H. & Gale R. Klappa Endowed Professor of Marketing	PhD	Carnegie-Mellon University	✓	
Maria Goranova	Associate Professor	PhD	Syracuse University	✓	
Dean Granatelli	Lecturer	PhD	California Intercontinental University		
Timothy C. Haas	Associate Professor	PhD	Colorado State University	✓	
Xiaoting Hao	Lecturer	PhD	University of Houston		
John Healy	Senior Lecturer	MS			✓
Ross Hightower	Senior Lecturer and Director, SAP University Competency Center	PhD	Georgia State University	✓	
Der-Ann Hsu	Professor	PhD			✓
John Huck	Assistant Professor	PhD	University of Michigan		
Charles Kang	Assistant Professor	PhD	Pennsylvania State University		
James Kasum	Senior Lecturer	PhD			✓
Odai Khasawneh	Lecturer	PhD	Eastern Michigan University		

Yong-Cheol Kim	Associate Professor	PhD	Ohio State University	✓	
Paul Kimmel	Associate Professor	PhD			✓
Charles A. Konkol	Senior Lecturer	MS, CPA	University of Wisconsin-Milwaukee		✓
Mark Kosfeld	Lecturer, Associate Director Supply Chain Management Institute	MBA			
Leslie Kren	Associate Professor	PhD, CPA	University of Houston		✓
Kaan Kuzu	Associate Professor	PhD	The Pennsylvania State University	✓	
Jerry Leer	Professor	MBA, CPA			✓
Edward Levitas	Professor	PhD	Texas A&M University	✓	
Aaron Mandell	Assistant Professor	PhD, CPA	University of Oregon	✓	
Richard D. Marcus	Associate Professor	PhD	University of Chicago	✓	
Michael McBain	Senior Lecturer	PhD			✓
Sean McCarthy	Assistant Professor	PhD	Texas A&M University		
Steven Michael	Karl A. and Lillian Bostrom Professor of Innovation and Entrepreneurship	PhD	Harvard University	✓	
Janice Miller	Professor and Senior Associate Dean	PhD			✓
Samar Mukhopadhyay	Visiting Professor	PhD	University of Texas at Austin		
Derek L. Nazareth	Associate Professor	PhD	Case Western Reserve University	✓	
Daniel Neely	Associate Professor	PhD	The University of Houston	✓	
Paul C. Nystrom	Professor	PhD			✓
Purushottam Papatla	Professor	PhD	Northwestern University	✓	
Laura A. Peracchio	Professor	PhD	Northwestern University		✓
V. Kanti Prasad	Dean Emeritus and Emeritus Bostrom Professor of Entrepreneurship	PhD	Michigan State University		✓
Belle R. Ragins	Sheldon B. Lubar Professor for Management and UWM Distinguished Professor	PhD	University of Tennessee at Knoxville	✓	
Keshavamurthy Ramamurthy	Professor	PhD			✓
Tracy Rank-Christman	Assistant Professor	PhD	Rutgers University		
Raymond Rausch	Lecturer	JD			✓
Will Rayms	Professor	PhD			✓
Hong Ren	Associate Professor	PhD	Pennsylvania State University	✓	
Joseph Retzer	Lecturer	PhD	University of Wisconsin-Milwaukee		
Jonathan Saffold	Lecturer	JD	University of Wisconsin-Madison		
Scott Schanke	Assistant Professor	PhD	University of Minnesota		
Eric Schenker	Professor	PhD			✓
Giorgo Sertsios	Sheldon B. Lubar Associate Professor of Finance	PhD	University of Maryland	✓	
Sol S. Shalit	Associate Professor	PhD			✓
Valeriy Sibilkov	Hans G. Storr Associate Professor of Finance	PhD	Purdue University	✓	
Romila Singh	Associate Professor	PhD	Drexel University	✓	
Atish Sinha	Professor and Rockwell Automation Endowed Professorship in Connected Systems	PhD	University of Pittsburgh	✓	
Timothy L. Smunt	Professor	DBA	Indiana University	✓	

Ehsan S. Soofi	UW-Milwaukee Distinguished Professor Emeritus	PhD	University of California, Riverside	✓
G. Kevin Spellman	Senior Lecturer	PhD	Durham University	
Mark Srite	Interim Associate Dean and Professor	PhD	Florida State University	✓
Keimei Sugiyama	Assistant Professor	PhD	Case Western Reserve University	✓
Laura Swenson	Assistant Professor	PhD, CPA	University of Wisconsin-Madison	✓
William J. Taylor	Associate Professor	PhD, CPA		✓
Amy Tegeler	Assistant Professor	PhD	University of Wisconsin-Madison	
Delia Valentine	Assistant Professor	PhD, CPA	Virginia Tech	
Yang Wang	Assistant Professor	PhD	University of Utah	
C. Edward Weber	Professor	PhD		✓
Zuhui Xiao	Assistant Professor	PhD	University of Minnesota Carlson School	
Ting Yao	Assistant Professor	PhD	University of North Carolina-Chapel Hill Kenan Flagler Business School	
Xiaohang Yue	Professor	PhD	University of Texas at Dallas	✓
Fatemeh (Mariam) Zahedi	UW-Milwaukee Distinguished Professor and Church Mutual Insurance Faculty Scholar in ITM Professor	DBA	Indiana University	✓
Huimin Zhao	Professor	PhD	University of Arizona	✓
Yaron Zoller	Lecturer	DBA	Nova Southeastern University	

## Contact Information

### Undergraduate Student Services

Lubar Hall, N297

<http://uwm.edu/business/>

## Business Administration, MBA

The Lubar College of Business STEM-Designated Master of Business Administration (MBA) provides the specialized business skills needed to meet an individual's career goals. Lubar offers a major metropolitan learning laboratory where dynamic individuals, applied project work, and superb business connections translate into a rewarding life-long career.

Faculty are connected to leading-edge business knowledge using real-world business challenges. There is an emphasis on critical and analytical thinking, collaboration with fellow students, and networking with successful executives and professional inside and outside the classroom.

Lubar College of Business offers a full array of MBA programs to meet professional needs:

- **MBA** with the opportunity to specialize in a Career-Focused Certificate (Business Analytics, (p. 255) Enterprise Resource Planning (p. 285), Entrepreneurship (p. 286), Finance (p. 291), Health Care Management (p. 293), Marketing (p. 306), and Supply Chain Management (p. 282)) through in-person or hybrid delivery.
- **Accelerated Online MBA Format** employing eight- or sixteen-week courses and asynchronous online delivery to allow completion of the degree in as little as one year.
- **Executive MBA** aimed at seasoned managers who will leverage their professional experience while broadening management knowledge through one of two concentrations (Global Strategic Leadership (p. 288) or Integrated Health Care Leadership (p. 290)). The

program includes collaborative technologies, advanced management research, applied learning projects, and an international trip.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements to be considered for admission:

1. Submission of score on the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>) or Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>).
2. Review by the MBA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.
3. Statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701 and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (<http://uwm.edu/graduateschool/admission/#gmat>) or GRE (<http://uwm.edu/graduateschool/admission/#gre>), or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed

the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

## Credits and Courses

The degree requirements for the Master of Business Administration degree are 33 credits. Students with a BBA degree and a major in accounting, finance, marketing, information technology management, or supply chain and operations management may substitute the 3-credit Core course that corresponds to their major field of study with an additional elective course. Students with an undergraduate double major in business **from an AACSB accredited institution** may substitute two Core courses with two additional elective courses.

Code	Title	Credits
<b>Core</b>		
BUSMGMT 704	Accounting Analysis and Control	3
BUSMGMT 705	Corporate Finance	3
BUSMGMT 706	Managing in a Dynamic Environment	3
BUSMGMT 707	Information Technology Management in International Businesses	3
BUSMGMT 708	Marketing Strategy: Concepts and Practice	3
BUSMGMT 709	Predictive Analytics for Managers	3
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations	3
BUSMGMT 712	Strategic Management <sup>1</sup>	3
<b>Electives</b>		
Select 9 elective credits <sup>2</sup>		9
<b>Total Credits</b>		<b>33</b>

<sup>1</sup> Integrating course

<sup>2</sup> Students in the MBA program have two options for completion of elective credits. The first route is to complete any approved Bus Adm or BusMgmt elective course. The second option is to choose a Career-Focused Certificate, completion of which will be documented on the transcript. Any credits substituted from the Core must be replaced with an equivalent number of elective credits.

See the MBA website (<https://uwm.edu/business/academics/mba/>) for additional details.

## Additional Requirements

### Major Professor as Advisor

The student in the MBA program is not assigned an advisor or major professor. Questions about the student's program of study, courses or regulations should be directed to Lubar College Graduate Program Services Office, Lubar N458, (414) 251-5252.

## Business Administration, MBA/Information Technology Management, MS

For practitioners seeking to blend the depth and rigor of the *STEM-designated* MS in ITM curriculum with the managerial skills developed

in a traditional MBA, Lubar College of Business offers the combined MBA-MS in ITM degree. This comprehensive program positions graduates for leadership advancement within organizations through an extensive IT and general management curriculum.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

### MBA Foundation Coursework

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires BUS ADM 701, and BUS ADM 703. BUS ADM 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT or GRE, or have passed the proficiency exam. BUS ADM 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. BUS ADM 701 and BUS ADM 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for BUS ADM 701, BUS ADM 703, and IT.

### ITM Foundation Courses

Students admitted to the MS in ITM program are expected to have knowledge or experience in programming.

Code	Title	Credits	
<b>Required MBA Program Core <sup>1</sup></b>			
BUSMGMT 704	Accounting Analysis and Control	<b>18-21</b>	
BUSMGMT 705	Corporate Finance		
BUSMGMT 706	Managing in a Dynamic Environment		
BUSMGMT 708	Marketing Strategy: Concepts and Practice		
BUSMGMT 709	Predictive Analytics for Managers		
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations		
BUSMGMT 712	Strategic Management <sup>2</sup>		
<b>Required M.S. in Information Technology Management (ITM)</b>			
BUS ADM 744	Information Technology Strategy and Management		3
BUS ADM 747	Service-Oriented Analysis and Design		3
BUS ADM 748	Managing Information Technology Projects (capstone course)		3
BUS ADM 749	Data and Information Management		3
BUS ADM 810	Development of Web-Based Solutions	3	
Elective Courses <sup>3</sup>		15	
<b>Total Credits</b>		<b>48-51</b>	

<sup>1</sup> Students with a BBA degree and a major in accounting, finance, marketing, or supply chain and operations management will be waived from the 3-credit Core course that corresponds to their major field of study.

<sup>2</sup> Integrating course.

<sup>3</sup> Please refer to <http://uwm.edu/business/academics/graduate/ms-in-information-technology-management/> for a comprehensive listing of elective courses.

## Business Administration, MBA/ Nursing Practice, DNP

The Lubar College of Business and the University of Wisconsin-Milwaukee School of Nursing collaboratively offer a program designed to provide a combined nursing and business curriculum to strengthen the graduate’s performance as a leader and manager in nursing and health care administration.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

Students are admitted to both the University of Wisconsin-Milwaukee graduate programs in nursing and business administration. The admission requirements are consistent with those specified by the UWM Graduate School, College of Nursing and Lubar College of Business. Applicants may choose to complete either the GMAT (<http://uwm.edu/graduateschool/admission/#gmat>) or GRE (<http://uwm.edu/graduateschool/admission/#gre>) and must have a BS in Nursing degree and at least two years’ practice in a health care setting. Three letters of reference are required including one from a former faculty and one from a health care employer.

### Credits and Courses

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires Bus Adm 701, Business Mathematics (2 cr), and Bus Adm 703, Financial Accounting (3 cr). Bus Adm 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (<http://uwm.edu/graduateschool/admission/#gmat>) or GRE (<http://uwm.edu/graduateschool/admission/#gre>) or have passed the proficiency exam. Bus Adm 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. Bus Adm 701 and Bus Adm 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for Bus Adm 701, 703, and IT.

For the coordinated degree program, students will complete **83** credit hours. A student not completing the requirements for the coordinated degree program would need to complete all requirements of an individual program—MBA or DNP—in order to receive a degree.

Code	Title	Credits
<b>Nursing Core</b>		
NURS 725	Evidence Based Practice in Healthcare	47

NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	
NURS 728	Epidemiological Principles for Population Health	
NURS 805	Translational and Implementation Science	
NURS 735	Theory for Advanced Practice	
NURS 750	Outcomes and Quality Management	
NURS 770	Nursing Administration	
NURS 773	Information Systems to Support Clinical Decision-Making	
NURS 803	Health Policy	
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	
NURS 826	Nurse Executive Practicum I	
NURS 827	Nurse Executive Practicum II	
NURS 828	Nurse Executive Practicum III	
NURS 993	DNP Project I: Plan	
NURS 994	DNP Project II: Proposal	
NURS 995	DNP Project III: Leadership Practice Immersion	
<b>MBA Core</b>		<b>18</b>
BUSMGMT 704	Accounting Analysis and Control	
BUSMGMT 705	Corporate Finance	
BUSMGMT 707	Information Technology Management in International Businesses	
BUSMGMT 708	Marketing Strategy: Concepts and Practice	
BUSMGMT 709	Predictive Analytics for Managers	
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations	
<b>Dually Applied</b>		<b>18</b>
NURS 720	Biostatistics and Applications for Nursing Practice	
BUS ADM 738	Human Resource Management	
BUSMGMT 706	Managing in a Dynamic Environment	
BUSMGMT 720	Strategic Management in Health Care Organizations <sup>1</sup>	
<i>Constrained Choice Choose two of the following:</i>		
BUS ADM 755	Health Care Administration and Delivery Systems	
BUS ADM 757	Managed Care and Integrated Health Networks	
BUSMGMT 727	Health Care Accounting, Law and Ethics	
NURS 711	Economics of Health Care and Health Care Systems	
<b>Total Credits</b>		<b>83</b>

<sup>1</sup> Integrating course for the coordinated degree program.

### Additional Requirements

A student not completing the requirements for the coordinated degree program would need to complete all requirements of an individual program—MBA or DNP—in order to receive a degree. Students must fulfill

the MBA Program Boot Camp and Executive Development activities to meet all graduation requirements.

### DNP Project

The candidate will complete a final comprehensive clinical project as part of the **leadership practice immersion** experience, which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the **faculty advisor**.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the **DNP** project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

### Time Limit

Students in the coordinated MBA/DNP degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Business Administration, MBA/ Translation and Interpreting Studies, MA

The College of Letters and Science and Lubar College of Business collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving language services industry theory and practices, and to provide high level management and administrative skills needed to work in business, industry, governmental, and nonprofit organizations.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Translation and Interpreting Studies MA of the College of Letters and Science, and the MBA program of the Lubar College of Business.

## Credit and Courses

The total credits for the Coordinated Translation and Interpreting Studies/MBA program is 54. Students accepted into the Translation and Interpreting Studies/MBA program complete the following courses:

### Translation and Interpreting Studies

Code	Title	Credits
<b>Required Professional Translation Credits</b>		
TRNSLTN 709	Seminar in Literary and Cultural Translation (language-specific)	3
TRNSLTN 820	Translation Theory	3

<b>Required Non-Language specific courses</b>		
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 726	Computer-Assisted Translation	3
TRNSLTN 730 or BUSMGMT 729	Internship in Translation/Interpreting MBA Internship	3
<b>Required Language-specific courses (two courses in same language pair)</b>		<b>6</b>
TRNSLTN 706 & TRNSLTN 716	Introduction to Translation: French to English and Seminar in Advanced Translation: French to English	
TRNSLTN 707 & TRNSLTN 717	Introduction to Translation: Spanish to English and Seminar in Advanced Translation: Spanish to English	
TRNSLTN 708 & TRNSLTN 718	Introduction to Translation: German to English and Seminar in Advanced German Translation	
TRNSLTN 719 & TRNSLTN 729	Introduction to Translation: Russian to English and Seminar in Advanced Translation: Russian to English	
<b>Comprehensive Exam</b>		
<b>Total Credits</b>		<b>21</b>

## Master of Business Administration

Code	Title	Credits
BUSMGMT 704	Accounting Analysis and Control	3
BUSMGMT 705	Corporate Finance	3
BUSMGMT 706	Managing in a Dynamic Environment	3
BUSMGMT 707	Information Technology Management in International Businesses	3
BUSMGMT 708	Marketing Strategy: Concepts and Practice	3
BUSMGMT 709	Predictive Analytics for Managers	3
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations	3
BUSMGMT 712	Strategic Management (capstone)	3
<b>Electives</b>		<b>9</b>
Select 9 shared credits in consultation with faculty advisors from among all approved TRNSLTN or MBA elective courses		
<b>Total Credits</b>		<b>33</b>

## Additional Requirements

The 54 credits for the coordinated program typically would be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program to receive a degree.

### Time Limit

Students in the coordinated degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

# Business Analytics, Graduate Certificate

The Online Graduate Certificate in Business Analytics is designed for students who desire a sequence of graduate-level courses that focus specifically on Business Analytics and that are delivered through an online instructional environment.

Business analytics—the management, analysis, and utilization of data in strategic, operational, and tactical decision making—is increasingly critical as businesses around the world seek out new areas of competitive advantage. In recent years, CIOs have identified analytics and business intelligence as top priorities for the competitiveness of their enterprises.

Lubar College of Business faculty use a vast array of business analytics software tools—including Business Objects, Excel Data Mining Client, Python, R, SAP BW, SAS, SPSS, SQL Server BI Development Studio—and other outstanding technologies and resources to deliver this program online to a worldwide audience. The curriculum includes predictive modeling, forecasting methods, data warehousing and data mining, web mining and analytics, marketing analytics, and customer relationship management.

Students who complete this certificate will gain a substantial competitive edge in pursuing a career as a business analytics manager, business intelligence consultant, business analytics systems analyst, business analytics solution architect, business intelligence specialist, business intelligence analyst, business intelligence developer, BI & reporting manager, data mining/reporting analyst, marketing analytics consultant, or online marketing analytics manager.

*This program can be completed as a standalone certificate or in combination with a master's degree program.*

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Business Analytics. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor's degree with an overall GPA of 2.75 or better.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.

- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
BUSMGMT 709	Predictive Analytics for Managers	3
Select four courses from the list below:		12
BUS ADM 713	Business Forecasting Methods	
BUS ADM 741	Web Mining and Analytics	
BUS ADM 742	Big Data in Business	
BUS ADM 763	Marketing Analytics	
BUS ADM 769	Database Marketing	
BUS ADM 812	Machine Learning for Business	
BUS ADM 816	Business Intelligence Technologies & Solutions	
BUSMGMT 744	R Programming for Business Analytics	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Business of Media and Film Studies, Undergraduate Certificate (Lubar College of Business)

The Certificate Program in Business of Media and Film Studies (BMFS) prepares students to be successful in their post-college careers by uniting the study of Business with the study of a popular, accessible, and pertinent area within the Humanities, Film Studies. Business students will have more sustained study in humanistic inquiry, both of their own field and of the diverse world that the Humanities investigates. Letters and Science students will have access to professional school curricula to help them be better equipped to enter a workforce that demands flexibility and a diversity of knowledge and experience.

The certificate in BMFS includes coursework engaging the financial and industry practices and structures in film and television. It is an interdisciplinary academic program consisting of an introductory course in Film or Television Studies, introductory courses in Business Administration (accounting, management, and marketing), an intermediate level Film Studies course focused on history and representational analysis, and a set of electives from Business Administration and Film Studies.

### Eligibility

The program is open to all students seeking a bachelor's degree from UWM, to students who previously earned a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Students currently involved in baccalaureate studies at UWM who successfully complete the requirements of the certificate program will be awarded the certificate at the time of graduation. Other students will receive the certificate upon completion of the program requirements.

### Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.25, a minimum of 19 credits in approved BMFS courses as indicated below, 15 of which must be earned in residence at UWM. Of these 15 residence credits, 9 must be taken at the 300 level or above. Nine credits must be taken in the College of Letters and Science, and nine credits must be taken in the Lubar College of Business. Courses for the certificate may not be taken on a credit/no credit basis.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee (BMFSAC). Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

Code	Title	Credits
<b>Required</b>		
BUS ADM 201	Introduction to Financial Accounting	4

or BUS ADM 230	Introduction to Information Technology Management	
BUS ADM 360	Principles of Marketing	3
FILMSTD 212	Intermediate Topics in Film and Television Studies: (Business on Film)	3
Select one of the following:		3
ENGLISH/FILMSTD 290	Introduction to Film Studies	
ENGLISH/FILMSTD 291	Introduction to Television Studies	
<b>Electives</b>		
Select one of the following:		3
BUS ADM 330	Organizations	
BUS ADM 397	Marketing Internship	
BUS ADM 461	Consumer Behavior	
BUS ADM 465	International Marketing	
BUS ADM 467	Marketing Seminar:	
Select one of the following:		3
ENGLISH/FILMSTD 312	Topics in Film, Television and Digital Studies: (Cinema and Digital Culture)	
ENGLISH/FILMSTD 380	Media and Society:	
ENGLISH/FILMSTD 391	Television Criticism and Theory	
ENGLISH/FILMSTD 393	Entertainment Industries:	
ENGLISH/FILMSTD 394	Theories of Digital Culture:	
<b>Total Credits</b>		<b>19</b>

### Contact Information

CRT, 417

## Business Scholars Program

The Business Scholars Program allows outstanding business students to build a rich portfolio of academic, co-curricular, and professional achievements. Students will build strong business competencies as well as enhanced communication and quantitative skills. International study is encouraged through the use of two-week study abroad opportunities.

### Requirements

#### Eligibility

To be admitted to the Business Scholars Program, the following requirements must be met:

#### Freshman Admission

Student must be a newly admitted Lubar undergraduate student.

1. Student must have a high school GPA of 3.5 or higher.
2. Student must have an ACT composite score of 25 or better; Math sub-score of 23 or better.

#### Sophomore Admission

1. A student must complete 24 credits with an overall cumulative grade point average of 3.3 (on a 4.0 scale), including completion of MATH 208 or MATH 211 (or equivalent) with a grade of B or better, completion of ENGLISH 101 and ENGLISH 102 with a grade of B



- or better (or attainment of placement score of 525 or higher), and completion of ECON 103 or ECON 104 with a grade of B or better; and
- 2. A student must submit an application that includes a one-page essay. The application is available online at <https://uwm.edu/business/academics/business-scholars/>.

### Course Requirements

Code	Title	Credits
<b>Complete the following required courses:</b>		
BUS ADM 211	Business Scholars: Statistical Modeling in Business Analytics	4
BUS ADM 231	Business Scholars: Introduction to Information Technology Management	4
<b>Choose three of the following courses:</b>		<b>9-10</b>
BUS ADM 207	Business Scholars: Introduction to Financial Accounting	
BUS ADM 331	Business Scholars: Organizations	
BUS ADM 351	Business Scholars: Principles of Finance	
BUS ADM 361	Business Scholars: Principles of Marketing	
BUS ADM 371	Business Scholars: Introduction to Supply Chain Management	
<b>Complete one Business Scholars Seminar:</b>		<b>3</b>
BUS ADM 493	Business Scholars: Seminar in Business: (Analytics and Innovation)	
<b>Complete one of the following:</b>		<b>3</b>
BUS ADM 498	Study Abroad: Business Topics: <sup>1</sup>	
BUS ADM 499	Research in Industry (Experiential Learning) <sup>2</sup>	
BUS ADM 599	Reading and Research-Business Administration (Business Scholars Thesis) <sup>2</sup>	
<b>Total Credits</b>		<b>23-24</b>

<sup>1</sup> Study abroad participants must complete additional coursework determined by the Scholars faculty director to receive Scholars credit for a study abroad course.

<sup>2</sup> Theses and experiential learning projects must be approved by the Scholars faculty director.

### Continuation and Graduation Requirements

Students must maintain a cumulative UWM GPA of 3.25 or higher, complete a minimum of 23 credits of Business Scholars coursework, participate in Business Scholars activities, and meet with the Business Scholars academic advisor each semester and before graduation to verify degree requirements are met.

## Business: Accounting, BBA

Accountants gather, organize and analyze financial information. Accountants assess performance and efficiency and suggest improvements for their employers and clients. They are needed in Certified Public Accounting (CPA) firms and corporations, as well as nonprofit organizations. Advancements in technology, evolving accounting rules and regulations, and rapid globalization promise

abundant and interesting career opportunities to those with strong quantitative abilities.

Accounting graduates who take positions in public accounting firms provide management consulting, tax, and audit services to external clients. Other accounting graduates, who take positions with industry and not-for-profit organizations, work as part of the management team providing information for decision support, taxation issues and performance evaluation.

Lubar College of Business accounting programs are separately accredited by the AACSB (one of only three accounting accredited schools in Wisconsin). Graduates meet the legal requirements to take the CPA Exam in Wisconsin. However, 150 credits of education are required to obtain the CPA license in Wisconsin. Many BBA Accounting graduates apply, are accepted, and enroll in the Lubar College of Business Master of Science in Management-Professional Accounting (MS-PA) program to complete the credits to prepare for the CPA exam and meet the 150 credits for licensure.

### Requirements

Code	Title	Credits
Advancement to Major (p. 257)		
General Education Requirements (p. 258)		24
Business Foundation Courses (p. 258)		21
Business Core (p. 258)		28
Accounting Major Requirements (p. 259)		24
Business Electives		9
General Electives		14
<b>Total Credits</b>		<b>120</b>

### Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

Code	Title	Credits
<i>Attain Junior standing (56 credits)</i>		
<i>Satisfy Oral and Written Communication requirement (Part A) by obtaining a grade of 'C' or better</i>		
ENGLISH 102	College Writing and Research	
Or obtain a high enough score on the English Placement Test or other appropriate test, as determined by the English Department.		
<i>Satisfy Quantitative Literacy requirement (Part A) by obtaining a grade of 'C' or better</i>		
MATH 105 or MATH 108	Introduction to College Algebra Algebraic Literacy II	
Or place high enough on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department.		
<i>Complete the Business Foundation Courses</i>		
With a cumulative GPA of 2.25 or above		
<i>Achieve a cumulative GPA of 2.50 or higher</i>		
Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar College of Business		
<i>Achieve a cumulative UWM GPA of 2.00 or higher</i>		

Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.

## Lubar College of Business General Education Requirements

Code	Title	Credits
<b>Oral and Written Communication</b>		
ENGLISH 102	College Writing and Research (or equivalent) <sup>1</sup>	
ENGLISH 205	Business Writing	3
<b>Quantitative Literacy</b>		
Select one of the following (QL-A):		
MATH 105	Introduction to College Algebra <sup>1</sup>	
MATH 108	Algebraic Literacy II <sup>1</sup>	
Or equivalent course		
Select one of the following (QL-B):		
MATH 208	Quantitative Models for Business	
MATH 211	Survey in Calculus and Analytic Geometry I	
Or equivalent course		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits <sup>2</sup>		6
<b>Social Sciences</b>		
Select 6 credits <sup>3</sup>		6
<b>Natural Sciences</b>		
Select 6 credits (At least two courses including one lab) <sup>4</sup>		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through: <sup>1</sup>		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

<sup>2</sup> Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

<sup>3</sup> Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104).

<sup>4</sup> Excluding MATH 211, MATH 221, or MATH 231.

## Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher.

Code	Title	Credits
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
BUS ADM 201	Introduction to Financial Accounting <sup>1</sup>	4
BUS ADM 230	Introduction to Information Technology Management <sup>2</sup>	4
MATH 208	Quantitative Models for Business <sup>3</sup>	4
or MATH 211	Survey in Calculus and Analytic Geometry I	
COMMUN 103	Public Speaking	3
or COMMUN 105	Business and Professional Communication	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 256) or who are interested in joining the program should enroll in the equivalent BUS ADM 207 course.

<sup>2</sup> A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students in the Business Scholars Program (p. 256) should enroll in the equivalent BUS ADM 231 course.

<sup>3</sup> Or equivalent to MATH 208 or MATH 211.

## Business Core Courses

Code	Title	Credits
BUS ADM 202	Managerial Accounting	3
BUS ADM 210	Statistical Modeling in Business Analytics	4
or BUS ADM 211	Business Scholars: Statistical Modeling in Business Analytics	
BUS ADM 330	Organizations	3
or BUS ADM 331	Business Scholars: Organizations	
BUS ADM 360	Principles of Marketing	3
or BUS ADM 361	Business Scholars: Principles of Marketing	
BUS ADM 370	Introduction to Supply Chain Management	3
or BUS ADM 371	Business Scholars: Introduction to Supply Chain Management	
BUS ADM 391	Business Law I	3
BUS ADM 450	Intermediate Finance	3
BUS ADM 600	Management Analysis	3
<i>International Business Component</i>		
Complete one of the following:		3
BUS ADM 456	International Financial Management	
BUS ADM 465	International Marketing	
BUS ADM 496	International Business	
BUS ADM 498	Study Abroad: Business Topics:	
BUS ADM 535	Global Information Technology Management	
BUS ADM 541	Cross-Cultural Management	
BUS ADM 551	International Investments	
<b>Total Credits</b>		<b>28</b>

## Accounting Major Requirements

A minimum 3.0 cumulative GPA, completion of MATH 208 or MATH 211, BUS ADM 230 or BUS ADM 231, a grade of B or better in BUS ADM 201 or BUS ADM 207, and completion of BUS ADM 202 are required to enroll in BUS ADM 301. A grade of B or better in BUS ADM 301 is required to enroll in BUS ADM 402, BUS ADM 404, and BUS ADM 409.

Code	Title	Credits
<b>Required Courses</b>		
BUS ADM 301	Intermediate Accounting I	4
BUS ADM 303	Career Planning for Accounting	1
BUS ADM 401	Introduction to Data Analytics in Accounting	4
BUS ADM 402	Intermediate Accounting II	3
BUS ADM 405	Income Tax Accounting I	3
BUS ADM 408	Accounting Information Systems	3
BUS ADM 409	Auditing: Procedures and Applications	3
<b>Electives</b>		
Choose one of the following:		3
BUS ADM 403	Consolidations and Governmental Accounting	
BUS ADM 404	Cost Management	
BUS ADM 406	Income Tax Accounting II	
<b>Total Credits</b>		<b>24</b>

## Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

Code	Title	Credits
Select 9 credits in the Lubar College of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.		9
<b>Total Credits</b>		<b>9</b>

## General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		14
ENGLISH 101	Introduction to College Writing	
ENGLISH 102	College Writing and Research	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
Foreign Language credits		
<b>Total Credits</b>		<b>14</b>

## Degree Completion Requirements Credits

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

### Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

### Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

### Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar College's Policies and Regulations (p. 248). The Accounting major may not be completed as a second undergraduate degree or as a post-baccalaureate major/Certificate of Major. The General Business Major may not be completed as a post-baccalaureate major/Certificate of Major.

### Multiple Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans. Students may double-count up to two major courses between any combination of BBA majors. Accounting majors may also use the BUS ADM 450 requirement towards the Finance or SCOM majors. General Business majors may not select a second major within the Lubar College of Business but may select any number of certificates.

### Certificate Option

Students have the option to complete one or more certificates in conjunction with BBA majors. No more than 50% of each certificate's credits may double count towards BBA Core or Major requirements.

## Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (<https://uwm.edu/business/students/current/undergraduate/advising-undergraduate/>) All students should meet with an academic advisor at least once a semester.

## Career Services

The Lubar College of Business also features a dedicated Career Services Center (<https://uwm.edu/business/students/career/undergraduate-career-advising/>) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the College as a service to students and to businesses that have specifically requested UWM business students to fill positions. Career Advisors can help students post their resume and search for jobs using UWM's jobs board on Handshake. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Lubar College of Business

Beta Gamma Sigma (<https://uwm.edu/business/students/current/undergraduate/organizations/>) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 256).

### Dean's Honor List

Students who earn a GPA of 3.500 or above on 12 or more graded credits in a given semester are placed on the Dean's Honor List.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Business: Accounting, BBA: Data Analysis

Accountants gather, organize and analyze financial information. Advancements in technology, evolving accounting rules and regulations, and rapid globalization promise abundant and interesting career opportunities to those with strong quantitative abilities. In response

to the rapidly changing environment, this degree is tailored to develop supplemental skills in Information Technology and analyzing data.

Accounting-Data Analysis graduates seek employment in a variety of positions in public accounting firms, industry, and not-for-profits. For public accounting firms, these graduates may find employment in either the traditional assurance track or the more IT-oriented risk advisory track. In either case, these graduates will analyze large, client-prepared datasets to accomplish audit objectives for their assigned audit team. In an industry employment position, the graduates will work as part of the management team providing information for decision support, taxation issues and performance evaluation. In the not-for-profit sector, the graduates will also analyze data to assist their organizations in decision support and performance evaluation. This accounting track specifically develops skills in Information Technology to enable graduates to utilize data analysis and visualization in these tasks.

Lubar College of Business accounting programs are separately accredited by the AACSB (one of only three accounting accredited schools in Wisconsin). Accounting graduates meet the legal requirements *to take the CPA Exam* in Wisconsin; however, 150 credits of education are required *to obtain the CPA license* in Wisconsin. Many BBA Accounting-Data Analysis graduates apply, are accepted, and enroll in the Lubar College of Business Master of Science in Management-Professional Accounting (MS-PA) program to complete the credits necessary to prepare for the CPA exam and meet the 150 credits for licensure.

## Requirements

Code	Title	Credits
Advancement to Major (p. 260)		
General Education Requirements (p. 261)		24
Business Foundation Courses (p. 261)		21
Business Core (p. 261)		28
Accounting Major Requirements (p. 262)		24
Data Analysis Requirements (p. 262)		12
General Electives		11
<b>Total Credits</b>		<b>120</b>

## Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

Code	Title	Credits
<i>Attain Junior standing (56 credits)</i>		
<i>Satisfy Oral and Written Communication requirement (Part A) by obtaining a grade of 'C' or better</i>		
ENGLISH 102	College Writing and Research	
Or obtain a high enough score on the English Placement Test or other appropriate test, as determined by the English Department.		
<i>Satisfy Quantitative Literacy requirement (Part A) by obtaining a grade of 'C' or better</i>		
MATH 105 or MATH 108	Introduction to College Algebra Algebraic Literacy II	
Or place high enough on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department.		

**Complete the Business Foundation Courses**

With a cumulative GPA of 2.25 or above

**Achieve a cumulative GPA of 2.50 or higher**

Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar College of Business

**Achieve a cumulative UWM GPA of 2.00 or higher**

Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.

## Lubar College of Business General Education Requirements

Code	Title	Credits
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**Oral and Written Communication**

ENGLISH 102	College Writing and Research (or equivalent) <sup>1</sup>	
ENGLISH 205	Business Writing	3

**Quantitative Literacy**

Select one of the following (QL-A):

MATH 105	Introduction to College Algebra <sup>1</sup>	
MATH 108	Algebraic Literacy II <sup>1</sup>	
Or equivalent course		

Select one of the following (QL-B):

MATH 208	Quantitative Models for Business	
MATH 211	Survey in Calculus and Analytic Geometry I	
Or equivalent course		

**Arts**

Select 3 credits	3
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**Humanities**

Select 6 credits <sup>2</sup>	6
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**Social Sciences**

Select 6 credits <sup>3</sup>	6
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**Natural Sciences**

Select 6 credits (At least two courses including one lab) <sup>4</sup>	6
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**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:<sup>1</sup>

Two years (high school) of a single foreign language	
Two semesters (college) of a single foreign language	
Or equivalent	

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<b>Total Credits</b>	<b>24</b>
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<sup>1</sup> Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

<sup>2</sup> Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

<sup>3</sup> Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used

to satisfy the Social Science requirement (excluding ECON 103 and ECON 104).

<sup>4</sup> Excluding MATH 211, MATH 221, or MATH 231.

## Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

Code	Title	Credits
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
BUS ADM 201	Introduction to Financial Accounting <sup>1</sup>	4
BUS ADM 230	Introduction to Information Technology Management <sup>2</sup>	4
MATH 208 or MATH 211	Quantitative Models for Business <sup>3</sup> Survey in Calculus and Analytic Geometry I	4
COMMUN 103 or COMMUN 105	Public Speaking Business and Professional Communication	3
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 256) or who are interested in joining the program should enroll in the equivalent BUS ADM 207 course.

<sup>2</sup> A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students in the Business Scholars Program (p. 256) should enroll in the equivalent BUS ADM 231 course.

<sup>3</sup> Or equivalent to MATH 208 or MATH 211.

## Business Core Courses

Code	Title	Credits
BUS ADM 202	Managerial Accounting	3
BUS ADM 210 or BUS ADM 211	Statistical Modeling in Business Analytics Business Scholars: Statistical Modeling in Business Analytics	4
BUS ADM 330 or BUS ADM 331	Organizations Business Scholars: Organizations	3
BUS ADM 360 or BUS ADM 361	Principles of Marketing Business Scholars: Principles of Marketing	3
BUS ADM 370 or BUS ADM 371	Introduction to Supply Chain Management Business Scholars: Introduction to Supply Chain Management	3
BUS ADM 391	Business Law I	3
BUS ADM 450	Intermediate Finance	3
BUS ADM 600	Management Analysis	3

*International Business Component*

Complete one of the following:	3
BUS ADM 456	International Financial Management
BUS ADM 465	International Marketing
BUS ADM 496	International Business
BUS ADM 498	Study Abroad: Business Topics:

BUS ADM 535	Global Information Technology Management	
BUS ADM 541	Cross-Cultural Management	
BUS ADM 551	International Investments	
<b>Total Credits</b>		<b>28</b>

## Accounting Major Requirements

A minimum 3.0 cumulative GPA, completion of MATH 208 or MATH 211, BUS ADM 230 or BUS ADM 231, a grade of B or better in BUS ADM 201 or BUS ADM 207, and completion of BUS ADM 202 are required to enroll in BUS ADM 301. A grade of B or better in BUS ADM 301 is required to enroll in BUS ADM 402, BUS ADM 404, and BUS ADM 409.

Code	Title	Credits
<b>Required Courses</b>		
BUS ADM 301	Intermediate Accounting I	4
BUS ADM 303	Career Planning for Accounting	1
BUS ADM 402	Intermediate Accounting II	3
BUS ADM 404	Cost Management	3
BUS ADM 405	Income Tax Accounting I	3
BUS ADM 406	Income Tax Accounting II	3
BUS ADM 408	Accounting Information Systems	3
BUS ADM 409	Auditing: Procedures and Applications	3
BUS ADM 410	Accountants' Ethical Responsibilities	1
<b>Total Credits</b>		<b>24</b>

## Data Analysis Requirements

In addition to the Accounting Major Requirements, a minimum grade of 'B' is required in both BUS ADM 335 and BUS ADM 434 in the Accounting, BBA: Data Analysis program.

Code	Title	Credits
<b>Required Courses</b>		
BUS ADM 335	Introduction to Business Application Development	6
BUS ADM 434	Data Base Management Systems	6
<b>Elective Courses (select two):</b>		
BUS ADM 436	Systems Analysis and Design	6
BUS ADM 438	Information Technology Management Topics:	6
BUS ADM 536	Business Intelligence	6
BUS ADM 537	Enterprise Systems Concepts and Issues	6
<b>Total Credits</b>		<b>12</b>

## General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		
ENGLISH 101	Introduction to College Writing	11
ENGLISH 102	College Writing and Research	11
MATH 105	Introduction to College Algebra	11
MATH 108	Algebraic Literacy II	11

Foreign Language credits	
<b>Total Credits</b>	<b>11</b>

## Degree Completion Requirements Credits

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

### Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

### Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

### Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar College's Policies and Regulations (p. 248). The Accounting major may not be completed as a second undergraduate degree or as a post-baccalaureate major/Certificate of Major. The General Business Major may not be completed as a post-baccalaureate major/Certificate of Major.

### Multiple Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans. Students may double-count up to two major courses between any combination of BBA majors. Accounting majors may also use the BUS ADM 450 requirement towards the Finance or SCOM majors. General Business majors may not select a second major within the Lubar College of Business but may select any number of certificates.

### Certificate Option

Students have the option to complete one or more certificates in conjunction with BBA majors. No more than 50% of each certificate's credits may double count towards BBA Core or Major requirements.

## Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (<https://uwm.edu/>)

business/students/current/undergraduate/advising-undergraduate/)All students should meet with an academic advisor at least once a semester.

## Career Services

The Lubar College of Business also features a dedicated Career Services Center (<https://uwm.edu/business/students/career/undergraduate-career-advising/>) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the College as a service to students and to businesses that have specifically requested UWM business students to fill positions. Career Advisors can help students post their resume and search for jobs using UWM's jobs board on Handshake. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

## Honors in the Lubar College of Business

Beta Gamma Sigma (<https://uwm.edu/business/students/current/undergraduate/organizations/>) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 256).

### Dean's Honor List

Students who earn a GPA of 3.500 or above on 12 or more graded credits in a given semester are placed on the Dean's Honor List.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Business: Finance, BBA

The finance major provides the needed tools to work in investment management, corporate financial management, and banking. Position titles for finance majors include loan officers, mortgage review officers, stockbrokers, bond and security analysts, and ultimately, chief financial officers. Finance majors are increasingly taking and passing the Chartered Financial Analysts (CFA) examination. Thorough training in finance and related fields provides the practical and theoretical

background needed to succeed in the fast-paced and fascinating world of domestic and international finance.

Whether students focus on either corporate finance or investment finance at the Lubar College, all students gain an understanding of business and economy, the functions of financial institutions and capital markets, and investment and borrowing instruments. Students learn how to use data and technology as tools to assist in making decisions by applying the understanding of financial data and analysis.

## Requirements

Code	Title	Credits
	Advancement to Major (p. 263)	
	General Education Requirements (p. 264)	24
	Business Foundation Courses (p. 264)	21
	Business Core (p. 264)	29
	Finance Major Requirements (p. 265)	21-22
	Business Electives	12
	General Electives	13
<b>Total Credits</b>		<b>120-121</b>

## Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

Code	Title	Credits
	<i>Attain Junior standing (56 credits)</i>	
	<i>Satisfy Oral and Written Communication requirement (Part A) by obtaining a grade of 'C' or better</i>	
ENGLISH 102	College Writing and Research	
	Or obtain a high enough score on the English Placement Test or other appropriate test, as determined by the English Department.	
	<i>Satisfy Quantitative Literacy requirement (Part A) by obtaining a grade of 'C' or better</i>	
MATH 105 or MATH 108	Introduction to College Algebra Algebraic Literacy II	
	Or place high enough on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department.	
	<i>Complete the Business Foundation Courses</i>	
	With a cumulative GPA of 2.25 or above	
	<i>Achieve a cumulative GPA of 2.50 or higher</i>	
	Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar College of Business	
	<i>Achieve a cumulative UWM GPA of 2.00 or higher</i>	
	Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.	

## Lubar College of Business General Education Requirements

Code	Title	Credits
<b>Oral and Written Communication</b>		
ENGLISH 102	College Writing and Research (or equivalent) <sup>1</sup>	
ENGLISH 205	Business Writing	3
<b>Quantitative Literacy</b>		
Select one of the following (QL-A):		
MATH 105	Introduction to College Algebra <sup>1</sup>	
MATH 108	Algebraic Literacy II <sup>1</sup>	
Or equivalent course		
Select one of the following (QL-B):		
MATH 208	Quantitative Models for Business	
MATH 211	Survey in Calculus and Analytic Geometry I	
Or equivalent course		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits <sup>2</sup>		6
<b>Social Sciences</b>		
Select 6 credits <sup>3</sup>		6
<b>Natural Sciences</b>		
Select 6 credits (At least two courses including one lab) <sup>4</sup>		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through: <sup>1</sup>		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

<sup>2</sup> Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

<sup>3</sup> Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104).

<sup>4</sup> Excluding MATH 211, MATH 221, or MATH 231.

## Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

Code	Title	Credits
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
BUS ADM 201	Introduction to Financial Accounting <sup>1</sup>	4

BUS ADM 230	Introduction to Information Technology Management <sup>2</sup>	4
MATH 208 or MATH 211	Quantitative Models for Business <sup>3</sup> Survey in Calculus and Analytic Geometry I	4
COMMUN 103 or COMMUN 105	Public Speaking Business and Professional Communication	3
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 256) or who are interested in joining the program should enroll in the equivalent BUS ADM 207 course.

<sup>2</sup> A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students in the Business Scholars Program (p. 256) should enroll in the equivalent BUS ADM 231 course.

<sup>3</sup> Or equivalent to MATH 208 or MATH 211.

## Business Core Courses

Code	Title	Credits
BUS ADM 202	Managerial Accounting	3
BUS ADM 210	Statistical Modeling in Business Analytics (Business Scholars course option) <sup>1</sup>	4
BUS ADM 300	Career and Professional Development	1
BUS ADM 330	Organizations <sup>2</sup>	3
BUS ADM 350	Principles of Finance <sup>3</sup>	3
BUS ADM 360	Principles of Marketing <sup>4</sup>	3
BUS ADM 370	Introduction to Supply Chain Management <sup>5</sup>	3
BUS ADM 391	Business Law I	3
BUS ADM 600	Management Analysis	3
<i>International Business Component</i>		
Complete one of the following:		3
BUS ADM 456	International Financial Management	
BUS ADM 465	International Marketing	
BUS ADM 496	International Business	
BUS ADM 498	Study Abroad: Business Topics:	
BUS ADM 535	Global Information Technology Management	
BUS ADM 541	Cross-Cultural Management	
BUS ADM 551	International Investments	
<b>Total Credits</b>		<b>29</b>

<sup>1</sup> Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.

<sup>2</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.

<sup>3</sup> A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.

<sup>4</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 361 course.



<sup>5</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

## Finance Major Requirements

A minimum of 21 credits is required beyond BUS ADM 350 (Principles of Finance) or BUS ADM 351 (Business Scholars: Principles of Finance). A minimum "C" grade must be earned in BUS ADM 350 or BUS ADM 351 to pursue the finance major. BUS ADM 450 (Intermediate Finance) is a prerequisite or co-requisite for several courses in the finance major. BUS ADM 450 should be completed soon after BUS ADM 350 or BUS ADM 351.

Code	Title	Credits
<b>Required</b>		<b>9</b>
BUS ADM 450	Intermediate Finance <sup>1</sup>	
BUS ADM 451	Investment Finance <sup>1</sup>	
BUS ADM 455	Financial Institutions <sup>1</sup>	
<b>Major Electives</b>		<b>12-13</b>
Select four courses from the list below:		
BUS ADM 301	Intermediate Accounting I <sup>1</sup>	
BUS ADM 305	Personal Investing and Financial Planning	
BUS ADM 452	Applied Portfolio Management <sup>1</sup>	
BUS ADM 453	Corporate Finance Seminar	
BUS ADM 454	Analysis of Options and Futures <sup>1</sup>	
BUS ADM 456	International Financial Management <sup>1,2</sup>	
BUS ADM 457	Financial Modeling	
BUS ADM 458	Venture Finance	
BUS ADM 459	Finance Professional Internship	
BUS ADM 481	Real Estate Finance & Asset Management <sup>1</sup>	
BUS ADM 551	International Investments <sup>1,2</sup>	
<b>Total Credits</b>		<b>21-22</b>

<sup>1</sup> This finance major course represents foundational material for the CFA Level 1 Exam.

<sup>2</sup> If BUS ADM 456 or BUS ADM 551 is selected as the International Business Component course, students must choose a different finance elective to complete the major.

## Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

Code	Title	Credits
Select 12 credits in the Lubar College of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.		<b>12</b>
<b>Total Credits</b>		<b>12</b>

## General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		<b>13</b>
ENGLISH 101	Introduction to College Writing	
ENGLISH 102	College Writing and Research	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
Foreign Language credits		
<b>Total Credits</b>		<b>13</b>

## Degree Completion Requirements Credits

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

### Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

### Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

### Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar College's Policies and Regulations (p. 248). The Accounting major may not be completed as a second undergraduate degree or as a post-baccalaureate major/Certificate of Major. The General Business Major may not be completed as a post-baccalaureate major/Certificate of Major.

### Multiple Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans. Students may double-count up to two major courses between any combination of BBA majors. Accounting majors may also use the BUS ADM 450 requirement towards the Finance or SCOM majors. General Business majors may not select a second major within the Lubar College of Business but may select any number of certificates.

## Certificate Option

Students have the option to complete one or more certificates in conjunction with BBA majors. No more than 50% of each certificate's credits may double count towards BBA Core or Major requirements.

## Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (<https://uwm.edu/business/students/current/undergraduate/advising-undergraduate/>) All students should meet with an academic advisor at least once a semester.

## Career Services

The Lubar College of Business also features a dedicated Career Services Center (<https://uwm.edu/business/students/career/undergraduate-career-advising/>) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the College as a service to students and to businesses that have specifically requested UWM business students to fill positions. Career Advisors can help students post their resume and search for jobs using UWM's jobs board on Handshake. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Lubar College of Business

Beta Gamma Sigma (<https://uwm.edu/business/students/current/undergraduate/organizations/>) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 256).

## Dean's Honor List

Students who earn a GPA of 3.500 or above on 12 or more graded credits in a given semester are placed on the Dean's Honor List.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Business: General Business, BBA

The General Business major provides students broader options within business for those uncertain of focusing on a specific business functional area, as provided by our other majors. Students have the opportunity to select courses from two or three competency areas to meet their individual academic and career goals.

## Requirements

Code	Title	Credits
	Advancement to Major (p. 266)	
	General Education Requirements (p. 267)	24
	Business Foundation Courses (p. 267)	21
	Business Core (p. 267)	29
	General Business Major Requirements (p. 268)	24
	Business Electives	9
	General Electives	13
<b>Total Credits</b>		<b>120</b>

## Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

Code	Title	Credits
	<i>Attain Junior standing (56 credits)</i>	
	<i>Satisfy Oral and Written Communication requirement (Part A) by obtaining a grade of 'C' or better</i>	
ENGLISH 102	College Writing and Research	
	Or obtain a high enough score on the English Placement Test or other appropriate test, as determined by the English Department.	
	<i>Satisfy Quantitative Literacy requirement (Part A) by obtaining a grade of 'C' or better</i>	
MATH 105 or MATH 108	Introduction to College Algebra Algebraic Literacy II	
	Or place high enough on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department.	
	<i>Complete the Business Foundation Courses</i>	
	With a cumulative GPA of 2.25 or above	
	<i>Achieve a cumulative GPA of 2.50 or higher</i>	
	Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar College of Business	
	<i>Achieve a cumulative UWM GPA of 2.00 or higher</i>	
	Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.	

# Lubar College of Business General Education Requirements

Code	Title	Credits
<b>Oral and Written Communication</b>		
ENGLISH 102	College Writing and Research (or equivalent) <sup>1</sup>	
ENGLISH 205	Business Writing	3
<b>Quantitative Literacy</b>		
Select one of the following (QL-A):		
MATH 105	Introduction to College Algebra <sup>1</sup>	
MATH 108	Algebraic Literacy II <sup>1</sup>	
Or equivalent course		
Select one of the following (QL-B):		
MATH 208	Quantitative Models for Business	
MATH 211	Survey in Calculus and Analytic Geometry I	
Or equivalent course		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits <sup>2</sup>		6
<b>Social Sciences</b>		
Select 6 credits <sup>3</sup>		6
<b>Natural Sciences</b>		
Select 6 credits (At least two courses including one lab) <sup>4</sup>		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through: <sup>1</sup>		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

<sup>2</sup> Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

<sup>3</sup> Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104).

<sup>4</sup> Excluding MATH 211, MATH 221, or MATH 231.

## Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

Code	Title	Credits
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
BUS ADM 201	Introduction to Financial Accounting <sup>1</sup>	4

BUS ADM 230	Introduction to Information Technology Management <sup>2</sup>	4
MATH 208 or MATH 211	Quantitative Models for Business <sup>3</sup> Survey in Calculus and Analytic Geometry I	4
COMMUN 103 or COMMUN 105	Public Speaking Business and Professional Communication	3
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 256) or who are interested in joining the program should enroll in the equivalent BUS ADM 207 course.

<sup>2</sup> A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students in the Business Scholars Program (p. 256) should enroll in the equivalent BUS ADM 231 course.

<sup>3</sup> Or equivalent to MATH 208 or MATH 211.

## Business Core Courses

Code	Title	Credits
BUS ADM 202	Managerial Accounting	3
BUS ADM 210	Statistical Modeling in Business Analytics (Business Scholars course option) <sup>1</sup>	4
BUS ADM 300	Career and Professional Development	1
BUS ADM 330	Organizations <sup>2</sup>	3
BUS ADM 350	Principles of Finance <sup>3</sup>	3
BUS ADM 360	Principles of Marketing <sup>4</sup>	3
BUS ADM 370	Introduction to Supply Chain Management <sup>5</sup>	3
BUS ADM 391	Business Law I	3
BUS ADM 600	Management Analysis	3
<i>International Business Component</i>		
Complete one of the following:		3
BUS ADM 456	International Financial Management	
BUS ADM 465	International Marketing	
BUS ADM 496	International Business	
BUS ADM 498	Study Abroad: Business Topics:	
BUS ADM 535	Global Information Technology Management	
BUS ADM 541	Cross-Cultural Management	
BUS ADM 551	International Investments	
<b>Total Credits</b>		<b>29</b>

<sup>1</sup> Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.

<sup>2</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.

<sup>3</sup> A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.

<sup>4</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 361 course.

<sup>5</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

## General Business Major Requirements

A minimum of 12 credits within Business Administration (BUS ADM) must be completed towards the General Business major.

Code	Title	Credits
<b>Required Courses</b>		
BUS ADM 393	Business Ethics, Social Responsibility and Sustainability	3
BUS ADM 446	Leadership and Team Building	3
<b>Electives</b>		
Select 18 credits from two or three of the Competency Areas listed below. A minimum of two courses must be taken in each competency area.		18
<i>Entrepreneurship</i>		
BUS ADM 447	Entrepreneurship	
BUS ADM 490	Entrepreneur Internship	
BUS ADM 492	Business Modeling of New Ventures	
<i>Finance</i>		
BUS ADM 305	Personal Investing and Financial Planning	
BUS ADM 450	Intermediate Finance	
BUS ADM 451	Investment Finance	
BUS ADM 452	Applied Portfolio Management	
BUS ADM 453	Corporate Finance Seminar	
BUS ADM 454	Analysis of Options and Futures	
BUS ADM 455	Financial Institutions	
BUS ADM 456	International Financial Management <sup>1</sup>	
BUS ADM 457	Financial Modeling	
BUS ADM 458	Venture Finance	
BUS ADM 459	Finance Professional Internship	
BUS ADM 481	Real Estate Finance & Asset Management	
BUS ADM 551	International Investments <sup>1</sup>	
<i>Human Resource Management</i>		
BUS ADM 440	Compensation Management	
BUS ADM 441	Diversity in Organizations	
BUS ADM 443	Special Topics in Human Resources Management:	
BUS ADM 444	Human Resources Management	
BUS ADM 445	Training & Development in Organizations	
BUS ADM 448	Staffing Human Resources	
BUS ADM 449	Human Resources Management Professional Internship	
<i>Information Technology Management</i>		
BUS ADM 335	Introduction to Business Application Development	
BUS ADM 336	Enterprise Systems and Data Analytics	
BUS ADM 432	Object-Oriented Systems Development	
BUS ADM 434	Data Base Management Systems	
BUS ADM 436	Systems Analysis and Design	

BUS ADM 438	Information Technology Management Topics:
BUS ADM 439	Information Technology Management Professional Internship
BUS ADM 530	Privacy and Information Security for Business
BUS ADM 531	Developing Applications for Interconnected Systems
BUS ADM 532	Web Development for Open Business Systems
BUS ADM 533	Introduction to Connected Systems for Business
BUS ADM 535	Global Information Technology Management <sup>2</sup>
BUS ADM 536	Business Intelligence
BUS ADM 537	Enterprise Systems Concepts and Issues
BUS ADM 538	Business Process Integration
BUS ADM 539	Web Application Server Development
<i>Marketing</i>	
BUS ADM 460	Retail Management
BUS ADM 461	Consumer Behavior
BUS ADM 462	Marketing Research
BUS ADM 463	Marketing Management
BUS ADM 464	Management of Promotion
BUS ADM 465	International Marketing <sup>3</sup>
BUS ADM 466	Business to Business Sales and Marketing
BUS ADM 467	Marketing Seminar:
BUS ADM 468	Internet Marketing
BUS ADM 469	Marketing Professional Internship
<i>Supply Chain and Operations Management</i>	
BUS ADM 472	Special Topics in Supply Chain and Operations Management:
BUS ADM 475	Operations Planning and Control
BUS ADM 476	Logistics and Transportation Management
BUS ADM 477	Purchasing and Supply Management
BUS ADM 478	Supply Chain Analytics
BUS ADM 479	Supply Chain & Operations Management Professional Internship
BUS ADM 571	Quality and Six Sigma Tools
BUS ADM 576	Enterprise Planning in the Supply Chain
BUS ADM 577	Supply Chain Applications, Policy, & Strategy
<i>Real Estate</i>	
BUS ADM 380	Introduction to Real Estate Markets
BUS ADM 389	Real Estate Internship
BUS ADM 481	Real Estate Finance & Asset Management
BUS ADM 482	Valuation of Real Estate
BUS ADM 483	Property Development and Management
BUS ADM 484	Real Estate Law

BUS ADM 485	Environmental Issues in Real Estate
<b>International Business</b>	
BUS ADM 494	International Business Internship
BUS ADM 496	International Business <sup>4</sup>
BUS ADM 498	Study Abroad: Business Topics: <sup>4</sup>
BUS ADM 541	Cross-Cultural Management <sup>4</sup>
BUS ADM 551	International Investments <sup>4</sup>
<b>Economics</b>	
ECON 325	Money and Banking
ECON 328	Environmental Economics
ECON 353	Economic Development
ECON 404	Economic Applications of Game Theory
ECON 411	Economic Forecasting Methods
ECON 448	Economics of Human Resources
<b>Healthcare Administration</b>	
HCA 421	Operations Management in Healthcare Organizations
HCA 422	Human Resource Management in Healthcare Organizations
HCA 460	Healthcare Reimbursement Systems and Policies
HI 537	Health Information Technology and Management
<b>Total Credits</b>	<b>24</b>

- <sup>1</sup> If BUS ADM 456 or BUS ADM 551 are selected as the International Business component course, students must choose a different finance elective to complete the major.
- <sup>2</sup> If BUS ADM 535 is selected as the International Business component course, students must choose a different ITM elective to complete the major.
- <sup>3</sup> If BUS ADM 465 is selected as the International Business area course, students must choose a different marketing elective to complete the major.
- <sup>4</sup> If BUS ADM 496, BUS ADM 498, BUS ADM 541, or BUS ADM 551 is selected as the International Business area course, students must choose a different elective to complete the major.

### Certificate Option

Students have the option to complete one or more certificates in conjunction with this major. No more than 50% of certificate credits may double count towards BBA Core or Major requirements. For example, a Real Estate Certificate could count 6 credits from the certificate towards the General Business major requirements (under the "Real Estate" or "Finance" Competency Areas); the remaining 9 certificate credits would count towards Business and/or General Electives.

### Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

Code	Title	Credits
Select 9 credits in the Lubar College of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.		9
<b>Total Credits</b>		<b>9</b>

### General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		13
ENGLISH 101	Introduction to College Writing	
ENGLISH 102	College Writing and Research	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
Foreign Language credits		
<b>Total Credits</b>		<b>13</b>

### Degree Completion Requirements Credits

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

### Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

### Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

### Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar College's Policies and Regulations (p. 248). The Accounting major may not be completed as a second undergraduate degree or as a post-baccalaureate major/Certificate of Major. The General Business Major may not be completed as a post-baccalaureate major/Certificate of Major.

## Multiple Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans. Students may double-count up to two major courses between any combination of BBA majors. Accounting majors may also use the BUS ADM 450 requirement towards the Finance or SCOM majors. General Business majors may not select a second major within the Lubar College of Business but may select any number of certificates.

## Certificate Option

Students have the option to complete one or more certificates in conjunction with BBA majors. No more than 50% of each certificate's credits may double count towards BBA Core or Major requirements.

## Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (<https://uwm.edu/business/students/current/undergraduate/advising-undergraduate/>) All students should meet with an academic advisor at least once a semester.

## Career Services

The Lubar College of Business also features a dedicated Career Services Center (<https://uwm.edu/business/students/career/undergraduate-career-advising/>) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the College as a service to students and to businesses that have specifically requested UWM business students to fill positions. Career Advisors can help students post their resume and search for jobs using UWM's jobs board on Handshake. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

## Honors in the Lubar College of Business

Beta Gamma Sigma (<https://uwm.edu/business/students/current/undergraduate/organizations/>) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 256).

## Dean's Honor List

Students who earn a GPA of 3.500 or above on 12 or more graded credits in a given semester are placed on the Dean's Honor List.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for

honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Business: Human Resources Management, BBA

Human resource (HR) managers play an essential and strategic role in helping organizations recruit, train and retain an effective workforce. HR managers understand people and help organizations create an inclusive and productive workforce by providing performance and talent management systems; offering training, career development and work-life programs; and by creating effective compensation and benefits packages. HR managers also help organizations develop effective leaders and teams and proactively work with top-management to build inclusive and positive organizational cultures. Effective HR managers are skilled in interpersonal communication, conflict resolution, diversity management, and perspective-taking.

This major prepares students for entry-level careers in either generalist or specialist areas of human resource management. The curriculum offers students a broad base of knowledge and skills needed to work with an increasing diverse and global workforce.

## Requirements

Code	Title	Credits
	Advancement to Major (p. 270)	
	General Education Requirements (p. 271)	24
	Business Foundation Courses (p. 271)	21
	Business Core (p. 271)	29
	HRM Major Requirements (p. 272)	21
	Business Electives	12
	General Electives	13
<b>Total Credits</b>		<b>120</b>

## Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

Code	Title	Credits
	<i>Attain Junior standing (56 credits)</i>	
	<i>Satisfy Oral and Written Communication requirement (Part A) by obtaining a grade of 'C' or better</i>	
ENGLISH 102	College Writing and Research	
	Or obtain a high enough score on the English Placement Test or other appropriate test, as determined by the English Department.	
	<i>Satisfy Quantitative Literacy requirement (Part A) by obtaining a grade of 'C' or better</i>	
MATH 105 or MATH 108	Introduction to College Algebra Algebraic Literacy II	

Or place high enough on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department.

**Complete the Business Foundation Courses**

With a cumulative GPA of 2.25 or above

**Achieve a cumulative GPA of 2.50 or higher**

Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar College of Business

**Achieve a cumulative UWM GPA of 2.00 or higher**

Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.

## Lubar College of Business General Education Requirements

Code	Title	Credits
<b>Oral and Written Communication</b>		
ENGLISH 102	College Writing and Research (or equivalent) <sup>1</sup>	
ENGLISH 205	Business Writing	3
<b>Quantitative Literacy</b>		
Select one of the following (QL-A):		
MATH 105	Introduction to College Algebra <sup>1</sup>	
MATH 108	Algebraic Literacy II <sup>1</sup>	
Or equivalent course		
Select one of the following (QL-B):		
MATH 208	Quantitative Models for Business	
MATH 211	Survey in Calculus and Analytic Geometry I	
Or equivalent course		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits <sup>2</sup>		6
<b>Social Sciences</b>		
Select 6 credits <sup>3</sup>		6
<b>Natural Sciences</b>		
Select 6 credits (At least two courses including one lab) <sup>4</sup>		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through: <sup>1</sup>		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

<sup>2</sup> Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

<sup>3</sup> Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104).

<sup>4</sup> Excluding MATH 211, MATH 221, or MATH 231.

## Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

Code	Title	Credits
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
BUS ADM 201	Introduction to Financial Accounting <sup>1</sup>	4
BUS ADM 230	Introduction to Information Technology Management <sup>2</sup>	4
MATH 208	Quantitative Models for Business <sup>3</sup>	4
or MATH 211	Survey in Calculus and Analytic Geometry I	
COMMUN 103	Public Speaking	3
or COMMUN 105	Business and Professional Communication	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 256) or who are interested in joining the program should enroll in the equivalent BUS ADM 207 course.

<sup>2</sup> A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students in the Business Scholars Program (p. 256) should enroll in the equivalent BUS ADM 231 course.

<sup>3</sup> Or equivalent to MATH 208 or MATH 211.

## Business Core Courses

Code	Title	Credits
BUS ADM 202	Managerial Accounting	3
BUS ADM 210	Statistical Modeling in Business Analytics (Business Scholars course option) <sup>1</sup>	4
BUS ADM 300	Career and Professional Development	1
BUS ADM 330	Organizations <sup>2</sup>	3
BUS ADM 350	Principles of Finance <sup>3</sup>	3
BUS ADM 360	Principles of Marketing <sup>4</sup>	3
BUS ADM 370	Introduction to Supply Chain Management <sup>5</sup>	3
BUS ADM 391	Business Law I	3
BUS ADM 600	Management Analysis	3
<i>International Business Component</i>		
Complete one of the following:		3
BUS ADM 456	International Financial Management	
BUS ADM 465	International Marketing	
BUS ADM 496	International Business	
BUS ADM 498	Study Abroad: Business Topics:	
BUS ADM 535	Global Information Technology Management	
BUS ADM 541	Cross-Cultural Management	

BUS ADM 551	International Investments	
<b>Total Credits</b>		<b>29</b>

- <sup>1</sup> Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.
- <sup>2</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.
- <sup>3</sup> A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.
- <sup>4</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 361 course.
- <sup>5</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

## Human Resources Management Major Requirements

The major in human resources management requires 21 human resources management credits beyond the 3 credits of BUS ADM 330 (Organizations) or BUS ADM 331 (Business Scholars: Organizations).

Code	Title	Credits
<b>Required</b>		
BUS ADM 444	Human Resources Management <sup>1</sup>	3
<b>Core</b>		
Select four courses from the list below:		12
BUS ADM 440	Compensation Management <sup>1</sup>	
BUS ADM 441	Diversity in Organizations <sup>1</sup>	
BUS ADM 445	Training & Development in Organizations <sup>1</sup>	
BUS ADM 448	Staffing Human Resources <sup>1</sup>	
BUS ADM 547	Employment Law <sup>1</sup>	
ECON 415	Economics of Employment and Labor Relations	
<b>HRM Electives</b>		
Select two courses from the Core Courses listed above or from the following:		6
BUS ADM 442	Industrial Psychology	
BUS ADM 443	Special Topics in Human Resources Management: (subtitle)	
BUS ADM 446	Leadership and Team Building	
BUS ADM 449	Human Resources Management Professional Internship	
BUS ADM 541	Cross-Cultural Management	
COMMUN 300	Interviewers and Interviewing	
COMMUN 310	Communication in Organizations	
ECON 448	Economics of Human Resources	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> These HRM major courses represent foundational material for the SHRM Assurance of Learning Certification exam.

## Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the

foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

Code	Title	Credits
Select 12 credits in the Lubar College of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.		12
<b>Total Credits</b>		<b>12</b>

## General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		13
ENGLISH 101	Introduction to College Writing	
ENGLISH 102	College Writing and Research	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
Foreign Language credits		
<b>Total Credits</b>		<b>13</b>

## Degree Completion Requirements Credits

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

## Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

## Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar College's Policies and Regulations (p. 248). The Accounting major may not be completed as a second undergraduate degree or as a post-baccalaureate major/Certificate of Major. The General



Business Major may not be completed as a post-baccalaureate major/ Certificate of Major.

### Multiple Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans. Students may double-count up to two major courses between any combination of BBA majors. Accounting majors may also use the BUS ADM 450 requirement towards the Finance or SCOM majors. General Business majors may not select a second major within the Lubar College of Business but may select any number of certificates.

### Certificate Option

Students have the option to complete one or more certificates in conjunction with BBA majors. No more than 50% of each certificate's credits may double count towards BBA Core or Major requirements.

### Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (<https://uwm.edu/business/students/current/undergraduate/advising-undergraduate/>) All students should meet with an academic advisor at least once a semester.

### Career Services

The Lubar College of Business also features a dedicated Career Services Center (<https://uwm.edu/business/students/career/undergraduate-career-advising/>) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the College as a service to students and to businesses that have specifically requested UWM business students to fill positions. Career Advisors can help students post their resume and search for jobs using UWM's jobs board on Handshake. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

### Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

### Honors in the Lubar College of Business

Beta Gamma Sigma (<https://uwm.edu/business/students/current/undergraduate/organizations/>) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 256).

### Dean's Honor List

Students who earn a GPA of 3.500 or above on 12 or more graded credits in a given semester are placed on the Dean's Honor List.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Business: Information Technology Management, BBA

The Information Technology Management (ITM) degree provides undergraduate students with the knowledge needed to develop creative and effective business solutions, based on a thorough comprehension of business problems and opportunities.

To that end, students are provided with a strong technical foundation in contemporary approaches to business application systems development which includes planning, analysis, design, project management, programming, maintenance, and support using state-of-the-art technologies, tools, and techniques, as well as an essential background in various business functional areas, such as management, marketing, accounting, finance, supply chain, and economics. In addition, there is an emphasis on the communication skills and teamwork critical to client understanding and satisfaction.

The ITM program is intended to be the first step in a lifelong learning experience in the exciting and dynamic field of ITM. It provides a strong foundation for advancement and success in ITM careers and ventures.

### Requirements

Code	Title	Credits
	Advancement to Major (p. 273)	
	General Education Requirements (p. 274)	24
	Business Foundation Courses (p. 274)	21
	Business Core (p. 274)	29
	Major Requirements (p. 275)	24
	Business Electives	9
	General Electives	13
<b>Total Credits</b>		<b>120</b>

### Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

Code	Title	Credits
<i>Attain Junior standing (56 credits)</i>		
<i>Satisfy Oral and Written Communication requirement (Part A) by obtaining a grade of 'C' or better</i>		
ENGLISH 102	College Writing and Research	
Or obtain a high enough score on the English Placement Test or other appropriate test, as determined by the English Department.		
<i>Satisfy Quantitative Literacy requirement (Part A) by obtaining a grade of 'C' or better</i>		
MATH 105 or MATH 108	Introduction to College Algebra Algebraic Literacy II	
Or place high enough on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department.		
<i>Complete the Business Foundation Courses</i>		
With a cumulative GPA of 2.25 or above		
<i>Achieve a cumulative GPA of 2.50 or higher</i>		
Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar College of Business		
<i>Achieve a cumulative UWM GPA of 2.00 or higher</i>		
Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.		

## Lubar College of Business General Education Requirements

Code	Title	Credits
<b>Oral and Written Communication</b>		
ENGLISH 102	College Writing and Research (or equivalent) <sup>1</sup>	
ENGLISH 205	Business Writing	3
<b>Quantitative Literacy</b>		
Select one of the following (QL-A):		
MATH 105	Introduction to College Algebra <sup>1</sup>	
MATH 108	Algebraic Literacy II <sup>1</sup>	
Or equivalent course		
Select one of the following (QL-B):		
MATH 208	Quantitative Models for Business	
MATH 211	Survey in Calculus and Analytic Geometry I	
Or equivalent course		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits <sup>2</sup>		6
<b>Social Sciences</b>		
Select 6 credits <sup>3</sup>		6
<b>Natural Sciences</b>		
Select 6 credits (At least two courses including one lab) <sup>4</sup>		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through: <sup>1</sup>		
Two years (high school) of a single foreign language		

Two semesters (college) of a single foreign language  
Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

**Total Credits** **24**

<sup>1</sup> Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

<sup>2</sup> Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

<sup>3</sup> Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104).

<sup>4</sup> Excluding MATH 211, MATH 221, or MATH 231.

## Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher.

Code	Title	Credits
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
BUS ADM 201	Introduction to Financial Accounting <sup>1</sup>	4
BUS ADM 230	Introduction to Information Technology Management <sup>2</sup>	4
MATH 208 or MATH 211	Quantitative Models for Business <sup>3</sup> Survey in Calculus and Analytic Geometry I	4
COMMUN 103 or COMMUN 105	Public Speaking Business and Professional Communication	3
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 256) or who are interested in joining the program should enroll in the equivalent BUS ADM 207 course.

<sup>2</sup> A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students in the Business Scholars Program (p. 256) should enroll in the equivalent BUS ADM 231 course.

<sup>3</sup> Or equivalent to MATH 208 or MATH 211.

## Business Core Courses

Code	Title	Credits
BUS ADM 202	Managerial Accounting	3
BUS ADM 210	Statistical Modeling in Business Analytics (Business Scholars course option) <sup>1</sup>	4
BUS ADM 300	Career and Professional Development	1
BUS ADM 330	Organizations <sup>2</sup>	3
BUS ADM 350	Principles of Finance <sup>3</sup>	3
BUS ADM 360	Principles of Marketing <sup>4</sup>	3
BUS ADM 370	Introduction to Supply Chain Management <sup>5</sup>	3

BUS ADM 391	Business Law I	3
BUS ADM 600	Management Analysis	3
<i>International Business Component</i>		
Complete one of the following:		3
BUS ADM 456	International Financial Management	
BUS ADM 465	International Marketing	
BUS ADM 496	International Business	
BUS ADM 498	Study Abroad: Business Topics:	
BUS ADM 535	Global Information Technology Management	
BUS ADM 541	Cross-Cultural Management	
BUS ADM 551	International Investments	

**Total Credits** 29

- <sup>1</sup> Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.
- <sup>2</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.
- <sup>3</sup> A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.
- <sup>4</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 361 course.
- <sup>5</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

## Information Technology Management Major Requirements

Code	Title	Credits
<b>Required</b>		
BUS ADM 335	Introduction to Business Application Development <sup>1</sup>	12
BUS ADM 432	Object-Oriented Systems Development	
BUS ADM 434	Data Base Management Systems	
BUS ADM 436	Systems Analysis and Design	

**Major Electives** 12

Select four courses from the list below:

BUS ADM 438	Information Technology Management Topics:	
BUS ADM 439	Information Technology Management Professional Internship	
BUS ADM 530	Privacy and Information Security for Business	
BUS ADM 531	Developing Applications for Interconnected Systems	
BUS ADM 532	Web Development for Open Business Systems	
BUS ADM 533	Introduction to Connected Systems for Business	
BUS ADM 534	Information Technology Practicum	
BUS ADM 535	Global Information Technology Management <sup>2</sup>	
BUS ADM 536	Business Intelligence <sup>3</sup>	
BUS ADM 537	Enterprise Systems Concepts and Issues <sup>3</sup>	

BUS ADM 538	Business Process Integration <sup>3</sup>	
BUS ADM 539	Web Application Server Development <sup>3</sup>	
<b>Total Credits</b>		<b>24</b>

- <sup>1</sup> A grade of "C" or better is required in BUS ADM 335 in order to enroll in advanced ITM courses.
- <sup>2</sup> If BUS ADM 535 is selected as the International Business Component course, students must choose a different ITM elective to complete the major.
- <sup>3</sup> These ITM courses represent foundational material for the TERP 10 Certification preparation course exam.

## Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

Code	Title	Credits
Select 9 credits in the Lubar College of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.		9
<b>Total Credits</b>		<b>9</b>

## General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		13
ENGLISH 101	Introduction to College Writing	
ENGLISH 102	College Writing and Research	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
Foreign Language credits		
<b>Total Credits</b>		<b>13</b>

## Degree Completion Requirements Credits

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

### Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

## Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar College's Policies and Regulations (p. 248). The Accounting major may not be completed as a second undergraduate degree or as a post-baccalaureate major/Certificate of Major. The General Business Major may not be completed as a post-baccalaureate major/Certificate of Major.

## Multiple Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans. Students may double-count up to two major courses between any combination of BBA majors. Accounting majors may also use the BUS ADM 450 requirement towards the Finance or SCOM majors. General Business majors may not select a second major within the Lubar College of Business but may select any number of certificates.

## Certificate Option

Students have the option to complete one or more certificates in conjunction with BBA majors. No more than 50% of each certificate's credits may double count towards BBA Core or Major requirements.

## Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (<https://uwm.edu/business/students/current/undergraduate/advising-undergraduate/>) All students should meet with an academic advisor at least once a semester.

## Career Services

The Lubar College of Business also features a dedicated Career Services Center (<https://uwm.edu/business/students/career/undergraduate-career-advising/>) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the College as a service to students and to businesses that have specifically requested UWM business students to fill positions. Career Advisors can help students post their resume and search for jobs using UWM's jobs board on Handshake. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Lubar College of Business

Beta Gamma Sigma (<https://uwm.edu/business/students/current/undergraduate/organizations/>) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 256).

## Dean's Honor List

Students who earn a GPA of 3.500 or above on 12 or more graded credits in a given semester are placed on the Dean's Honor List.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Business: Marketing, BBA

Marketing is a key factor contributing to the success of any business organization. It is the dynamic and creative process of the development, pricing, promotion, and distribution of products and services to satisfy customer and organizational objectives. Effective marketing requires an integration of eclectic knowledge and the skills pertinent to understanding consumer behavior, planning and analyzing marketing research data, thinking strategically, and managing people.

Students learn how marketing supports an organization's objectives; how to examine consumer motivation and behavior; how to price, promote, and distribute products and services; and how to plan and analyze market research data to make good decisions.

Graduates of the marketing major find an exciting and broad spectrum of career opportunities in brand/product management, industrial selling, retailing, sales management, advertising, marketing research, customer-service management, and other areas.

## Requirements

Code	Title	Credits
	Advancement to Major (p. 277)	
	General Education Requirements (p. 277)	24
	Business Foundation Courses (p. 277)	21

Business Core (p. 278)	29
Marketing Major Requirements (p. 278)	21
Business Electives	12
General Electives	13
<b>Total Credits</b>	<b>120</b>

## Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

Code	Title	Credits
<i>Attain Junior standing (56 credits)</i>		
<i>Satisfy Oral and Written Communication requirement (Part A) by obtaining a grade of 'C' or better</i>		
ENGLISH 102	College Writing and Research	
Or obtain a high enough score on the English Placement Test or other appropriate test, as determined by the English Department.		
<i>Satisfy Quantitative Literacy requirement (Part A) by obtaining a grade of 'C' or better</i>		
MATH 105 or MATH 108	Introduction to College Algebra Algebraic Literacy II	
Or place high enough on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department.		
<i>Complete the Business Foundation Courses</i>		
With a cumulative GPA of 2.25 or above		
<i>Achieve a cumulative GPA of 2.50 or higher</i>		
Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar College of Business		
<i>Achieve a cumulative UWM GPA of 2.00 or higher</i>		
Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.		

## Lubar College of Business General Education Requirements

Code	Title	Credits
<b>Oral and Written Communication</b>		
ENGLISH 102	College Writing and Research (or equivalent) <sup>1</sup>	
ENGLISH 205	Business Writing	3
<b>Quantitative Literacy</b>		
Select one of the following (QL-A):		
MATH 105	Introduction to College Algebra <sup>1</sup>	
MATH 108	Algebraic Literacy II <sup>1</sup>	
Or equivalent course		
Select one of the following (QL-B):		
MATH 208	Quantitative Models for Business	
MATH 211	Survey in Calculus and Analytic Geometry I	
Or equivalent course		

### Arts

Select 3 credits	3
<b>Humanities</b>	
Select 6 credits <sup>2</sup>	6
<b>Social Sciences</b>	
Select 6 credits <sup>3</sup>	6
<b>Natural Sciences</b>	
Select 6 credits (At least two courses including one lab) <sup>4</sup>	6
<b>UWM Foreign Language Requirement</b>	
Complete Foreign Language Requirement through: <sup>1</sup>	
Two years (high school) of a single foreign language	
Two semesters (college) of a single foreign language	
Or equivalent	
<b>UWM Cultural Diversity Requirement</b>	
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement	
<b>Total Credits</b>	<b>24</b>

<sup>1</sup> Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

<sup>2</sup> Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

<sup>3</sup> Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104).

<sup>4</sup> Excluding MATH 211, MATH 221, or MATH 231.

## Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

Code	Title	Credits
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
BUS ADM 201	Introduction to Financial Accounting <sup>1</sup>	4
BUS ADM 230	Introduction to Information Technology Management <sup>2</sup>	4
MATH 208 or MATH 211	Quantitative Models for Business <sup>3</sup> Survey in Calculus and Analytic Geometry I	4
COMMUN 103 or COMMUN 105	Public Speaking Business and Professional Communication	3
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 256) or who are interested in joining the program should enroll in the equivalent BUS ADM 207 course.

<sup>2</sup> A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students in the Business Scholars Program (p. 256) should enroll in the equivalent BUS ADM 231 course.

<sup>3</sup> Or equivalent to MATH 208 or MATH 211.

## Business Core Courses

Code	Title	Credits
BUS ADM 202	Managerial Accounting	3
BUS ADM 210	Statistical Modeling in Business Analytics (Business Scholars course option) <sup>1</sup>	4
BUS ADM 300	Career and Professional Development	1
BUS ADM 330	Organizations <sup>2</sup>	3
BUS ADM 350	Principles of Finance <sup>3</sup>	3
BUS ADM 360	Principles of Marketing <sup>4</sup>	3
BUS ADM 370	Introduction to Supply Chain Management <sup>5</sup>	3
BUS ADM 391	Business Law I	3
BUS ADM 600	Management Analysis	3
<i>International Business Component</i>		
Complete one of the following:		3
BUS ADM 456	International Financial Management	
BUS ADM 465	International Marketing	
BUS ADM 496	International Business	
BUS ADM 498	Study Abroad: Business Topics:	
BUS ADM 535	Global Information Technology Management	
BUS ADM 541	Cross-Cultural Management	
BUS ADM 551	International Investments	
<b>Total Credits</b>		<b>29</b>

<sup>1</sup> Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.

<sup>2</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.

<sup>3</sup> A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.

<sup>4</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 361 course.

<sup>5</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

## Marketing Major Requirements

Code	Title	Credits
<b>Required Courses</b>		<b>9</b>
BUS ADM 461	Consumer Behavior	
BUS ADM 462	Marketing Research	
BUS ADM 463	Marketing Management	
<b>Major Electives</b>		<b>12</b>
Choose four courses from the list below:		
BUS ADM 447	Entrepreneurship	
BUS ADM 460	Retail Management	
BUS ADM 464	Management of Promotion	
BUS ADM 465	International Marketing <sup>1</sup>	
BUS ADM 466	Business to Business Sales and Marketing	
BUS ADM 467	Marketing Seminar: (subtitle)	
BUS ADM 468	Internet Marketing	

BUS ADM 469	Marketing Professional Internship	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> If BUS ADM 465 is selected as the International Business area course, students must choose a different marketing elective to complete the major.

## Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

Code	Title	Credits
Select 12 credits in the Lubar College of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.		12
<b>Total Credits</b>		<b>12</b>

## General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		13

ENGLISH 101	Introduction to College Writing	
ENGLISH 102	College Writing and Research	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
Foreign Language credits		
<b>Total Credits</b>		<b>13</b>

## Degree Completion Requirements Credits

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

### Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

### Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major

within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar College's Policies and Regulations (p. 248). The Accounting major may not be completed as a second undergraduate degree or as a post-baccalaureate major/Certificate of Major. The General Business Major may not be completed as a post-baccalaureate major/Certificate of Major.

## Multiple Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans. Students may double-count up to two major courses between any combination of BBA majors. Accounting majors may also use the BUS ADM 450 requirement towards the Finance or SCOM majors. General Business majors may not select a second major within the Lubar College of Business but may select any number of certificates.

## Certificate Option

Students have the option to complete one or more certificates in conjunction with BBA majors. No more than 50% of each certificate's credits may double count towards BBA Core or Major requirements.

## Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (<https://uwm.edu/business/students/current/undergraduate/advising-undergraduate/>) All students should meet with an academic advisor at least once a semester.

## Career Services

The Lubar College of Business also features a dedicated Career Services Center (<https://uwm.edu/business/students/career/undergraduate-career-advising/>) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the College as a service to students and to businesses that have specifically requested UWM business students to fill positions. Career Advisors can help students post their resume and search for jobs using UWM's jobs board on Handshake. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Lubar College of Business

Beta Gamma Sigma (<https://uwm.edu/business/students/current/undergraduate/organizations/>) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 256).

## Dean's Honor List

Students who earn a GPA of 3.500 or above on 12 or more graded credits in a given semester are placed on the Dean's Honor List.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Business: Supply Chain and Operations Management, BBA

Supply Chain and Operations Management (SCOM) examines the key business processes that take place from "step one" through delivery to the customer. Supply chain management is the integration of all key business processes from original suppliers through end users and provides products, services, and information that add value for customers and other stakeholders. It includes the supply, storage, and movement of materials, information, personnel, equipment, and finished goods within the organization and between the organization and its environment.

The operations function, within the supply chain, relates to the creation of goods and services through efficient and effective use of personnel, material, and machines and includes acquisition of resources, planning of production and inventory levels, scheduling of work assignments, and the control of production and quality. Recent concepts in supply chain and operations management include lean operations, Six Sigma, ERP, and mass customization.

Technology is one of the most important facets in supply chain, and the Lubar program emphasizes information technology management, including enterprise resource planning. Other important components include product development, lean operations, Six Sigma, and mass customization.

Companies in all sectors of the economy - public and private, manufacturing service, health care, retail and others - recruit SCOM graduates to help them identify competitive issues in the supply chain and develop innovative solutions.

## Requirements

Code	Title	Credits
Advancement to Major (p. 280)		
General Education Requirements (p. 280)		24
Business Foundation Courses (p. 280)		21
Business Core (p. 281)		29
SCOM Major Requirements (p. 281)		21
Business Electives		12
General Electives		13
<b>Total Credits</b>		<b>120</b>

## Advancement to the Major

Students are eligible to advance within the major when the following requirements have been met:

Code	Title	Credits
<i>Attain Junior standing (56 credits)</i>		
<i>Satisfy Oral and Written Communication requirement (Part A) by obtaining a grade of 'C' or better</i>		
ENGLISH 102	College Writing and Research	
Or obtain a high enough score on the English Placement Test or other appropriate test, as determined by the English Department.		
<i>Satisfy Quantitative Literacy requirement (Part A) by obtaining a grade of 'C' or better</i>		
MATH 105 or MATH 108	Introduction to College Algebra Algebraic Literacy II	
Or place high enough on the Math Placement Test or other appropriate test, as determined by the Mathematical Sciences Department.		
<i>Complete the Business Foundation Courses</i>		
With a cumulative GPA of 2.25 or above		
<i>Achieve a cumulative GPA of 2.50 or higher</i>		
Obtain a cumulative GPA (including transfer work) equal to or higher than the standard established by the Lubar College of Business		
<i>Achieve a cumulative UWM GPA of 2.00 or higher</i>		
Students who have a 2.50 cumulative grade point average or higher, including at least a 2.00 UWM cumulative grade point average, are guaranteed advancement to major.		

## Lubar College of Business General Education Requirements

Code	Title	Credits
<b>Oral and Written Communication</b>		
ENGLISH 102	College Writing and Research (or equivalent) <sup>1</sup>	
ENGLISH 205	Business Writing	3
<b>Quantitative Literacy</b>		
Select one of the following (QL-A):		
MATH 105	Introduction to College Algebra <sup>1</sup>	
MATH 108	Algebraic Literacy II <sup>1</sup>	
Or equivalent course		

Select one of the following (QL-B):

MATH 208	Quantitative Models for Business	
MATH 211	Survey in Calculus and Analytic Geometry I	
Or equivalent course		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits <sup>2</sup>		6
<b>Social Sciences</b>		
Select 6 credits <sup>3</sup>		6
<b>Natural Sciences</b>		
Select 6 credits (At least two courses including one lab) <sup>4</sup>		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through: <sup>1</sup>		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> Credit earned for 100-level English and Math courses, as well as college credit earned for Foreign Languages, is counted towards General Electives.

<sup>2</sup> Excluding COMMUN 103 if used to satisfy a Foundation course requirement.

<sup>3</sup> Excluding COMMUN 105 if used to satisfy a Foundation course requirement. Only one 100- or 200-level economics course can be used to satisfy the Social Science requirement (excluding ECON 103 and ECON 104).

<sup>4</sup> Excluding MATH 211, MATH 221, or MATH 231.

## Business Foundation Courses

Complete with a cumulative grade point average of 2.25 or higher:

Code	Title	Credits
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
BUS ADM 201	Introduction to Financial Accounting <sup>1</sup>	4
BUS ADM 230	Introduction to Information Technology Management <sup>2</sup>	4
MATH 208 or MATH 211	Quantitative Models for Business <sup>3</sup> Survey in Calculus and Analytic Geometry I	4
COMMUN 103 or COMMUN 105	Public Speaking Business and Professional Communication	3
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A grade of "B" or better in BUS ADM 201 is required for Accounting majors. Students in the Business Scholars Program (p. 256) or who are interested in joining the program should enroll in the equivalent BUS ADM 207 course.

<sup>2</sup> A grade of "C" or better in BUS ADM 230 is required for Information Technology Management majors. Students in



the Business Scholars Program (p. 256) should enroll in the equivalent BUS ADM 231 course.

<sup>3</sup> Or equivalent to MATH 208 or MATH 211.

## Business Core Courses

Code	Title	Credits
BUS ADM 202	Managerial Accounting	3
BUS ADM 210	Statistical Modeling in Business Analytics (Business Scholars course option) <sup>1</sup>	4
BUS ADM 300	Career and Professional Development	1
BUS ADM 330	Organizations <sup>2</sup>	3
BUS ADM 350	Principles of Finance <sup>3</sup>	3
BUS ADM 360	Principles of Marketing <sup>4</sup>	3
BUS ADM 370	Introduction to Supply Chain Management <sup>5</sup>	3
BUS ADM 391	Business Law I	3
BUS ADM 600	Management Analysis	3
<i>International Business Component</i>		
Complete one of the following:		3
BUS ADM 456	International Financial Management	
BUS ADM 465	International Marketing	
BUS ADM 496	International Business	
BUS ADM 498	Study Abroad: Business Topics:	
BUS ADM 535	Global Information Technology Management	
BUS ADM 541	Cross-Cultural Management	
BUS ADM 551	International Investments	
<b>Total Credits</b>		<b>29</b>

<sup>1</sup> Students in the Business Scholars Program should enroll in the equivalent BUS ADM 211 course.

<sup>2</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 331 course.

<sup>3</sup> A grade of "C" or better is required for Finance majors. Students in the Business Scholars Program should consider the equivalent BUS ADM 351 course.

<sup>4</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 361 course.

<sup>5</sup> Students in the Business Scholars Program should consider the equivalent BUS ADM 371 course.

## Major Requirements

Code	Title	Credits
<b>Required</b>		<b>12</b>
BUS ADM 475	Operations Planning and Control	
BUS ADM 476	Logistics and Transportation Management	
BUS ADM 477	Purchasing and Supply Management	
BUS ADM 478	Supply Chain Analytics	
<b>Electives</b>		<b>6</b>
Select two courses from the following list:		
BUS ADM 447	Entrepreneurship	
BUS ADM 450	Intermediate Finance	

BUS ADM 460	Retail Management	
BUS ADM 466	Business to Business Sales and Marketing	
BUS ADM 472	Special Topics in Supply Chain and Operations Management: (subtitle)	
BUS ADM 479	Supply Chain & Operations Management Professional Internship	
BUS ADM 537	Enterprise Systems Concepts and Issues	
BUS ADM 538	Business Process Integration	
BUS ADM 571	Quality and Six Sigma Tools	
BUS ADM 577	Supply Chain Applications, Policy, & Strategy	
<b>Capstone</b>		<b>3</b>
BUS ADM 576	Enterprise Planning in the Supply Chain	
<b>Total Credits</b>		<b>21</b>

*Note: The SCOM major required courses represent foundational material for the APICS CPIM certification preparatory course.*

## Business Electives

A business elective is any course with Bus Adm as the subject. The course cannot be one a student has already taken as part of the foundation, core, or major coursework. Students often use business electives to complete a double major or certificate.

Code	Title	Credits
Select 12 credits in the Lubar College of Business. May include 300-level Bus Adm internship courses, additional Bus Adm courses in the major, business courses outside of the major, and/or Bus Adm courses used in the completion of a second Business major or Business Certificate program.		12
<b>Total Credits</b>		<b>12</b>

## General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		13
ENGLISH 101	Introduction to College Writing	
ENGLISH 102	College Writing and Research	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
Foreign Language credits		
<b>Total Credits</b>		<b>13</b>

## Degree Completion Requirements Credits

A minimum of 120 credits is required for graduation for all majors. At least 50% of the business credit hours required for the business degree must be completed at UWM.

## Grade Point Average

Students are required to earn at least a 2.25 overall GPA to graduate. Non-accounting majors are required to earn a minimum 2.25 GPA in all

business and economics courses, as well as a 2.25 GPA in all business and economics courses completed at UWM, to graduate.

Accounting majors must have earned a 2.5 GPA for all business and economics courses completed (including transfer credits), as well as a 2.5 GPA in all business and economics courses completed at UWM, to graduate.

### Residence Requirements

A minimum of 12 credits must be completed in residence at UWM in each Business Administration major.

Students must earn their last 30 credits at UWM. BBA degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the degree and major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

### Post-Baccalaureate Options

The above requirements refer to the full requirements of an initial bachelors degree only. Requirements of a second undergraduate degree are listed on the Lubar College's Policies and Regulations (p. 248). The Accounting major may not be completed as a second undergraduate degree or as a post-baccalaureate major/Certificate of Major. The General Business Major may not be completed as a post-baccalaureate major/Certificate of Major.

### Multiple Majors

Students interested in completing a double major with another UWM program or within Business should meet with an academic advisor to discuss how best to combine their academic plans. Students may double-count up to two major courses between any combination of BBA majors. Accounting majors may also use the BUS ADM 450 requirement towards the Finance or SCOM majors. General Business majors may not select a second major within the Lubar College of Business but may select any number of certificates.

### Certificate Option

Students have the option to complete one or more certificates in conjunction with BBA majors. No more than 50% of each certificate's credits may double count towards BBA Core or Major requirements.

### Advising

For information on Academic Advising for undergraduate business majors, see Undergraduate Student Services. (<https://uwm.edu/business/students/current/undergraduate/advising-undergraduate/>) All students should meet with an academic advisor at least once a semester.

### Career Services

The Lubar College of Business also features a dedicated Career Services Center (<https://uwm.edu/business/students/career/undergraduate-career-advising/>) for its students. Internship positions and job requests are posted on a special bulletin board, which is maintained by the College as a service to students and to businesses that have specifically requested UWM business students to fill positions. Career Advisors can help students post their resume and search for jobs using UWM's jobs board on Handshake. The Career Services Center also provides a resume referral service. Potential employers may request resumes by functional

area or by special interests within functional areas. Online national job searches and an alumni placement service are other services offered.

### Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

### Honors in the Lubar College of Business

Beta Gamma Sigma (<https://uwm.edu/business/students/current/undergraduate/organizations/>) is the national scholastic honor society in the field of business. Election to membership is available to both undergraduate and graduate students in business. Each semester, students are invited to join Beta Gamma Sigma. Selection is based upon outstanding scholastic achievement.

See also information on the Business Scholars Program (p. 256).

### Dean's Honor List

Students who earn a GPA of 3.500 or above on 12 or more graded credits in a given semester are placed on the Dean's Honor List.

### Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Digital Supply Chain Management, Graduate Certificate

The Graduate Certificate in Digital Supply Chain Management is designed for students who desire a sequence of graduate-level courses that focus specifically on supply chain management topics. Recent history has amplified the importance of smoothly functioning supply chains to businesses and to the economy as a whole. Professionals with deep understanding of the managerial and technological complexities of supply chain operations are in high demand. The Graduate Certificate in Digital Supply Chain Management provides students with access to world-class faculty with real-world experience in current supply chain issues and challenges. From project management techniques, to reviewing quality and Six Sigma tools, and digging into logistics management, students will find opportunities to develop their knowledge and skill set.

This program can be completed as a standalone certificate or in combination with a master's degree program.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Digital Supply Chain Management. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor's degree with an overall GPA of 2.75 or better.

## Credits and Courses

Code	Title	Credits
<b>Required</b>		
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations	3
BUS ADM 783	Modeling and Analytics in Supply Chains	3
<b>Electives</b>		
Select 9 credits from the list below:		9
BUS ADM 781	Enabling Supply Chains Using SAP	
BUS ADM 786	Supply Chain Logistics Management	
BUS ADM 787	Managing Connected Supply Chains	
BUSMGMT 732	Enterprise Resource Planning	
IND ENG 741	Foundational Technologies for Connected Systems (1 credit)	
IND ENG 742	Cloud Architecture for Connected Systems (1 credit)	
BUS ADM 788	Tracking and Tracing (1 credit)	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. A maximum of one three-credit course from another AACSB-accredited graduate program may be transferred. These courses are subject to Graduate School transfer policy.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Digital Supply Chain Management, MS

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements to be considered for admission:

- A bachelor's degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.
- A statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).

Applicants admitted to the MS program may be required to complete management foundation courses. Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N458).

The major professor, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

## Credits and Courses

Code	Title	Credits
<i>Required courses</i>		
BUS ADM 783	Modeling and Analytics in Supply Chains	3
BUS ADM 787	Managing Connected Supply Chains	3
BUS ADM 788	Tracking and Tracing	1
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations	3
BUSMGMT 732	Enterprise Resource Planning	3
IND ENG 741	Foundational Technologies for Connected Systems	1
IND ENG 742	Cloud Architecture for Connected Systems	1
<i>Supply Chain &amp; Operations Management Electives (choose 2 of 5)</i>		6
BUS ADM 781	Enabling Supply Chains Using SAP	
BUS ADM 782	Supply Chain Technology and Simulation	
BUS ADM 785	Project Management and Innovative Operations	
BUS ADM 786	Supply Chain Logistics Management	
BUS ADM 789	Service Operations Management	
<i>Other Electives (choose 3)</i>		9
BUS ADM 737	Managerial Decisions and Negotiations	
BUS ADM 742	Big Data in Business	
BUS ADM 745	Artificial Intelligence for Business	

BUS ADM 811	Process and Work-Flow Management
BUS ADM 812	Machine Learning for Business
BUSMGMT 709	Predictive Analytics for Managers
BUSMGMT 723	Managing and Negotiating Across Borders
BUSMGMT 744	R Programming for Business Analytics
<b>Total Credits</b>	<b>30</b>

## Additional Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

### Major Professor as Advisor

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each MS student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

### The Management Research Project/Thesis

The Management Research Project/Thesis is a variable 2-6 credit management research project.

### Comprehensive Examination

Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Enterprise Resource Planning, Graduate Certificate

The Online Graduate Certificate in Enterprise Resource Planning is designed for students who desire a sequence of graduate-level courses that focus specifically on the Enterprise Resource Planning (ERP) area.

The growing use of ERP systems in organizations is driving the need for IT professionals with ERP competencies. The Online Graduate Certificate in ERP leverages the significant SAP expertise of faculty at the Lubar College, which is home to one of only five SAP University Competence Centers in the world.

This five-course sequence prepares students for the SAP Certified Application Associate exam and includes a simulation game and instruction in the use of business intelligence tools. The certificate can be completed in less than one year.

This program can be completed as a standalone certificate or in combination with a master's degree program.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

To obtain the certificate, a student must complete 15 credits from the following set of available courses.

Code	Title	Credits
<b>Select five courses from the following:</b>		<b>15</b>
BUS ADM 781	Enabling Supply Chains Using SAP	
BUS ADM 811	Process and Work-Flow Management	
BUS ADM 816	Business Intelligence Technologies & Solutions	
BUSMGMT 732	Enterprise Resource Planning	
BUSMGMT 733	Enterprise Simulation Game	
BUSMGMT 734	Enterprise Resource Planning Certification	
BUS ADM 818	Information Systems Practicum (ERP project only) <sup>1</sup>	
BUS ADM 819	Information Technology Management Internship (ERP placement only) <sup>1</sup>	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Students may select either BUS ADM 818 or BUS ADM 819, but not both.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Enterprise Resource Planning, Undergraduate Certificate

The Certificate in Enterprise Resource Planning is designed for business students who desire a sequence of courses that focus specifically on the Enterprise Resource Planning (ERP) area. ERP systems are critical information systems that connect a company's operations, including purchasing, production, sales, service, accounting, supply chain, finance and asset management, and customer/supplier relationships.

ERP certificate students will not only develop knowledge in ERP but also develop mobile ERP applications and participate in an ERP simulation game. Because the Lubar College is home to one of only five SAP University Competence Centers in the world, Lubar faculty have extensive ERP teaching experience.

The certificate is designed for non-Information Technology Management majors. This five-course sequence prepares students for the SAP Certified Application Associate exam.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

## Requirements

To obtain the certificate, a Lubar College of Business non-ITM major must complete 15 credits of required coursework while fulfilling all requirements of the baccalaureate degree.

Code	Title	Credits
<b>Required</b>		
BUS ADM 336	Enterprise Systems and Data Analytics	3
<b>Electives</b>		
Choose four of the following courses:		12
BUS ADM 536	Business Intelligence	
BUS ADM 537	Enterprise Systems Concepts and Issues	
BUS ADM 538	Business Process Integration	
BUS ADM 539	Web Application Server Development	
BUS ADM 540	ERP Certification	
BUS ADM 576	Enterprise Planning in the Supply Chain	
<b>Total Credits</b>		<b>15</b>

*Note: A non-ITM business major may count no more than 6 credits from a major towards the Certificate in Enterprise Resource Planning.*

## Eligibility

To apply to the Certificate in Enterprise Resource Planning program, students must be admitted to Lubar College of Business and have completed the foundation courses.

## Graduation

Students must complete all coursework required for the certificate with at least a 2.25 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

## Entrepreneurship, Graduate Certificate

The Graduate Certificate in Entrepreneurship is designed for students who desire a sequence of graduate-level courses that focus specifically on Entrepreneurship topics. Students will gain an in-depth understanding of venture creation and collaborative innovation in global networks, including diverse collaboration models, innovation processes, and capabilities. Students will select from elective courses that are most relevant to their goals, such as venture finance, new product development, marketing, and product and brand management. This program is led by a combination of academic faculty and successful entrepreneur executives.

*This program can be completed as a standalone certificate or in combination with a master's degree program.*

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Entrepreneurship. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor's degree with an overall GPA of 2.75 or better.

## Credits and Courses

Code	Title	Credits
<b>Required Courses</b>		<b>6</b>
BUS ADM 546	Global Innovation Management	
BUSMGMT 713	Entrepreneurship: Venture Creation and Management	
<b>Electives - Choose three courses from the list below:</b>		<b>9</b>
BUS ADM 544	New Product Development	
BUS ADM 762	Marketing Research	
BUS ADM 765	Strategic Product and Brand Management	
BUS ADM 799	Reading and Research	
BUS ADM 852	Venture Finance	
BUSMGMT 715	Leadership, Team Building, and Effective Management	
BUSMGMT 729	MBA Internship	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. A maximum of one three-credit course from another AACSB-accredited graduate program may be transferred. These courses are subject to Graduate School transfer policy.

## Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

## Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Entrepreneurship, Undergraduate Certificate

New ideas and innovation are what helps companies grow. Whether the goal is launching a new business, working for a smaller firm, or working in a large competitive company, it's important to understand what it takes to develop an idea, product, or process in order to launch a new business or assist an existing company expand.

Lubar College of Business Entrepreneurship Certificate students gain the knowledge and skills needed to assess new business opportunities, obtain financial resources, market and start new ventures, and manage entrepreneurial endeavors for growth and profitability. As part of the certificate program, students develop a business plan and present it to faculty and entrepreneurs for feedback, providing the real flavor of what it takes to get a business off the ground.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.

## Requirements

To obtain the certificate, the student must complete a minimum of 15 approved entrepreneurship credits while fulfilling all requirements of the baccalaureate degree. The certificate is open to all students in good standing seeking a bachelor's degree at the University of Wisconsin-Milwaukee and to all students who have previously received a bachelor's degree from UWM or any other accredited college or university. Non-business majors will be required to complete prerequisites for the required courses and electives to fulfill the requirements for this certificate.

Code	Title	Credits
<b>Required</b>		<b>12</b>
BUS ADM 447	Entrepreneurship	
BUS ADM 458	Venture Finance <sup>1</sup>	
BUS ADM 466	Business to Business Sales and Marketing <sup>1</sup>	
BUS ADM 492	Business Modeling of New Ventures	
<b>Elective</b>		<b>3</b>
Select one of the following courses:		
BUS ADM 380	Introduction to Real Estate Markets	
BUS ADM 444	Human Resources Management <sup>1</sup>	
BUS ADM 450	Intermediate Finance <sup>1</sup>	
BUS ADM 462	Marketing Research <sup>1</sup>	
BUS ADM 465	International Marketing <sup>1</sup>	
BUS ADM 467	Marketing Seminar: (subtitle) <sup>1</sup>	
BUS ADM 490	Entrepreneur Internship	
BUS ADM 495	Special Topics in Business: (Entrepreneurship topics only)	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> A business student may count no more than 6 credits from a major towards a business certificate.

Students must complete all coursework required for the certificate with at least a 2.5 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

## Executive, MBA

As the area's leader in executive education, the Lubar College of Business STEM-Designated Executive MBA (EMBA) program offers business professionals a transformative 16-month educational and life experience designed especially for the experienced manager. The Lubar EMBA builds deep professional relationships with corporate executives and managers, and with an active network of successful Lubar Executive MBA alumni.

The cohort format fosters a highly bonded network of peer professionals. Attending classes every other week - Friday evening and Saturday - provides the flexibility needed to balance a career while pursuing an Executive MBA degree.

The program includes collaborative technologies, advanced management research, applied learning projects, and an international trip.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants for the Executive MBA Program must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) and additional program standards as specified below:

- Ten or more years of professional experience preferred, including at least 7 years of management experience, or nomination of the employing organizations.
- Applicants are reviewed by the Master's Program Committee of the Lubar College of Business. The admission recommendations are based upon:
  - Academic achievement and ability to do intensive graduate-level work.
  - Nature of managerial experience.
  - Contribution to the varied skills of the class.
  - Ability and willingness of the individual and the employer to make a 16-month commitment to the program.
- Applicants must submit a statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).

See the program website (<https://uwm.edu/business/academic-programs/executive-mba/>) for additional information.

## Credits and Courses

Students admitted to the Executive MBA Program will take the following courses:

Code	Title	Credits
<b>Required</b>		
BUSMGMT 704	Accounting Analysis and Control	3
BUSMGMT 705	Corporate Finance	3
BUSMGMT 706	Managing in a Dynamic Environment	3
BUSMGMT 707	Information Technology Management in International Businesses	3
BUSMGMT 708	Marketing Strategy: Concepts and Practice	3
BUSMGMT 709	Predictive Analytics for Managers	3
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations	3
BUSMGMT 712	Strategic Management <sup>1</sup>	3
or BUSMGMT 720	Strategic Management in Health Care Organizations	
This course must be taken for a total of 3 credits:		3
BUS ADM 795	Seminar-in-Management: (Topics: International Business Simulation, Corporate Simulation, and Strategy Formulation)	
<b>Electives</b>		<b>12-15</b>

Complete a concentration in Global Strategic Leadership or Integrated Health Care Leadership, or select 4 courses from the list below: <sup>2</sup>

BUS ADM 752	Corporate Economics
BUS ADM 755	Health Care Administration and Delivery Systems
BUS ADM 757	Managed Care and Integrated Health Networks
BUSMGMT 713	Entrepreneurship: Venture Creation and Management
BUSMGMT 715	Leadership, Team Building, and Effective Management
BUSMGMT 727	Health Care Accounting, Law and Ethics

**Total Credits**

**39-42**

<sup>1</sup> Global Strategic Leadership students must take BUSMGMT 712 and Integrated Health Care Leadership students must take BUSMGMT 720.

<sup>2</sup> BUS ADM 795: Seminar-in-Management topics "HR Law and Ethics" and "Cross-Cultural Management" may also be taken as elective options.

## Additional Requirements

Proof of competency in the three foundation requirement areas of financial accounting, mathematics review, and team building and business communications through coursework, or through examinations as approved by the Master's Program faculty committee. Students are also assumed to have basic proficiency in the use of word processing, spreadsheet, presentation, and Web-browsing software.

### Major Professor as Advisor

The student in the Executive MBA Program is not assigned an advisor or major professor. Questions about the student's program of study, courses or regulations should be directed to the EMBA Director, Lubar N471, (414) 229-6045.

### Thesis

Not required.

### Comprehensive Examination

Not required.

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. A maximum of one three-credit course from another AACSB-accredited graduate program may be transferred. These courses are subject to Graduate School transfer policy.

### Time Limit

The Executive MBA must be completed in 3 years from initial enrollment date.

## Executive, MBA: Global Strategic Leadership

As the area's leader in executive education, the Lubar College of Business STEM-Designated Executive MBA (EMBA) program offers business professionals a transformative 16-month educational and life experience designed especially for the experienced manager. The Lubar EMBA builds



deep professional relationships with corporate executives and managers, and with an active network of successful Lubar Executive MBA alumni.

The cohort format fosters a highly bonded network of peer professionals. Attending classes every other week - Friday evening and Saturday - provides the flexibility needed to balance a career while pursuing an Executive MBA degree.

The program includes collaborative technologies, advanced management research, applied learning projects, and an international trip.

The Graduate Concentration in Global Strategic Leadership provides deep knowledge in topics that will help students navigate the increasingly complex global business environment, such as leadership and team building, corporate economics, corporate human resources, cross-cultural management, and strategic management.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants for the Executive MBA Program must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) and additional program standards as specified below:

- Ten or more years of professional experience preferred, including at least 7 years of management experience, or nomination of the employing organizations.
- Applicants are reviewed by the Master’s Program Committee of the Lubar College of Business. The admission recommendations are based upon:
  - Academic achievement and ability to do intensive graduate-level work.
  - Nature of managerial experience.
  - Contribution to the varied skills of the class.
  - Ability and willingness of the individual and the employer to make a 16-month commitment to the program.
- Applicants must submit a statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).

See the program website (<https://uwm.edu/business/academic-programs/executive-mba/>) for additional information.

## Credits and Courses

Students admitted to the Executive MBA Program will take the following courses:

Code	Title	Credits
<b>Required</b>		
BUSMGMT 704	Accounting Analysis and Control	3
BUSMGMT 705	Corporate Finance	3
BUSMGMT 706	Managing in a Dynamic Environment	3
BUSMGMT 707	Information Technology Management in International Businesses	3

BUSMGMT 708	Marketing Strategy: Concepts and Practice	3
BUSMGMT 709	Predictive Analytics for Managers	3
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations	3
BUSMGMT 712	Strategic Management <sup>1</sup>	3
or BUSMGMT 720	Strategic Management in Health Care Organizations	
This course must be taken for a total of 3 credits:		3
BUS ADM 795	Seminar-in-Management: (Topics: International Business Simulation, Corporate Simulation, and Strategy Formulation)	

### Electives 12-15

Complete a concentration in Global Strategic Leadership or Integrated Health Care Leadership, or select 4 courses from the list below: <sup>2</sup>

BUS ADM 752	Corporate Economics
BUS ADM 755	Health Care Administration and Delivery Systems
BUS ADM 757	Managed Care and Integrated Health Networks
BUSMGMT 713	Entrepreneurship: Venture Creation and Management
BUSMGMT 715	Leadership, Team Building, and Effective Management
BUSMGMT 727	Health Care Accounting, Law and Ethics

### Total Credits 39-42

<sup>1</sup> Global Strategic Leadership students must take BUSMGMT 712 and Integrated Health Care Leadership students must take BUSMGMT 720.

<sup>2</sup> BUS ADM 795: Seminar-in-Management topics "HR Law and Ethics" and "Cross-Cultural Management" may also be taken as elective options.

## Global Strategic Leadership Concentration

Code	Title	Credits
<b>Complete the five courses from the list below: <sup>1</sup></b>		
BUSMGMT 713	Entrepreneurship: Venture Creation and Management	3
BUSMGMT 715	Leadership, Team Building, and Effective Management	3
BUS ADM 752	Corporate Economics	3
BUS ADM 795	Seminar-in-Management: (Topic: HR Law and Ethics AND Topic: Cross-Cultural Management)	6

### Total Credits 15

<sup>1</sup> Students without a concentration may take any combination of 4 courses from the Global Strategic Leadership and Integrated Health Care Leadership lists.

## Additional Requirements

Proof of competency in the three foundation requirement areas of financial accounting, mathematics review, and team building and business communications through coursework, or through examinations

as approved by the Master's Program faculty committee. Students are also assumed to have basic proficiency in the use of word processing, spreadsheet, presentation, and Web-browsing software.

### Major Professor as Advisor

The student in the Executive MBA Program is not assigned an advisor or major professor. Questions about the student's program of study, courses or regulations should be directed to the EMBA Director, Lubar N471, (414) 229-6045.

### Thesis

Not required.

### Comprehensive Examination

Not required.

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. A maximum of one three-credit course from another AACSB-accredited graduate program may be transferred. These courses are subject to Graduate School transfer policy.

### Time Limit

The Executive MBA must be completed in 3 years from initial enrollment date.

## Executive, MBA: Integrated Health Care Leadership

As the area's leader in executive education, the Lubar College of Business STEM-Designated Executive MBA (EMBA) program offers business professionals a transformative 16-month educational and life experience designed especially for the experienced manager. The Lubar EMBA builds deep professional relationships with corporate executives and managers, and with an active network of successful Lubar Executive MBA alumni.

The cohort format fosters a highly bonded network of peer professionals. Attending classes every other week - Friday evening and Saturday - provides the flexibility needed to balance a career while pursuing an Executive MBA degree.

The program includes collaborative technologies, advanced management research, applied learning projects, and an international trip.

The Graduate Concentration in Integrated Health Care Leadership provides deep knowledge in topics that will help students navigate the increasingly complex health care industry environment, such as leadership and team building, health care accounting, law, and ethics, health care administration and delivery systems, managed care and integrated health networks, and strategic management in health care organizations.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

Applicants for the Executive MBA Program must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) and additional program standards as specified below:

- Ten or more years of professional experience preferred, including at least 7 years of management experience, or nomination of the employing organizations.
- Applicants are reviewed by the Master's Program Committee of the Lubar College of Business. The admission recommendations are based upon:
  - Academic achievement and ability to do intensive graduate-level work.
  - Nature of managerial experience.
  - Contribution to the varied skills of the class.
  - Ability and willingness of the individual and the employer to make a 16-month commitment to the program.
- Applicants must submit a statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).

See the program website (<https://uwm.edu/business/academic-programs/executive-mba/>) for additional information.

## Credits and Courses

Students admitted to the Executive MBA Program will take the following courses:

Code	Title	Credits
<b>Required</b>		
BUSMGMT 704	Accounting Analysis and Control	3
BUSMGMT 705	Corporate Finance	3
BUSMGMT 706	Managing in a Dynamic Environment	3
BUSMGMT 707	Information Technology Management in International Businesses	3
BUSMGMT 708	Marketing Strategy: Concepts and Practice	3
BUSMGMT 709	Predictive Analytics for Managers	3
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations	3
BUSMGMT 712	Strategic Management <sup>1</sup>	3
or BUSMGMT 720	Strategic Management in Health Care Organizations	
This course must be taken for a total of 3 credits:		3
BUS ADM 795	Seminar-in-Management: (Topics: International Business Simulation, Corporate Simulation, and Strategy Formulation)	
<b>Electives</b>		<b>12-15</b>
Complete a concentration in Global Strategic Leadership or Integrated Health Care Leadership, or select 4 courses from the list below: <sup>2</sup>		
BUS ADM 752	Corporate Economics	
BUS ADM 755	Health Care Administration and Delivery Systems	
BUS ADM 757	Managed Care and Integrated Health Networks	

BUSMGMT 713	Entrepreneurship: Venture Creation and Management
BUSMGMT 715	Leadership, Team Building, and Effective Management
BUSMGMT 727	Health Care Accounting, Law and Ethics
<b>Total Credits</b>	<b>39-42</b>

- <sup>1</sup> Global Strategic Leadership students must take BUSMGMT 712 and Integrated Health Care Leadership students must take BUSMGMT 720.  
<sup>2</sup> BUS ADM 795: Seminar-in-Management topics "HR Law and Ethics" and "Cross-Cultural Management" may also be taken as elective options.

### Integrated Health Care Leadership Concentration

Code	Title	Credits
<b>Complete the five courses from the list below: <sup>1</sup></b>		
BUSMGMT 713	Entrepreneurship: Venture Creation and Management	3
BUSMGMT 715	Leadership, Team Building, and Effective Management	3
BUSMGMT 727	Health Care Accounting, Law and Ethics	3
BUS ADM 755	Health Care Administration and Delivery Systems	3
BUS ADM 757	Managed Care and Integrated Health Networks	3
<b>Total Credits</b>		<b>15</b>

- <sup>1</sup> Students without a concentration may take any combination of 4 courses from the Global Strategic Leadership and Integrated Health Care Leadership lists.

### Additional Requirements

Proof of competency in the three foundation requirement areas of financial accounting, mathematics review, and team building and business communications through coursework, or through examinations as approved by the Master's Program faculty committee. Students are also assumed to have basic proficiency in the use of word processing, spreadsheet, presentation, and Web-browsing software.

### Major Professor as Advisor

The student in the Executive MBA Program is not assigned an advisor or major professor. Questions about the student's program of study, courses or regulations should be directed to the EMBA Director, Lubar N471, (414) 229-6045.

### Thesis

Not required.

### Comprehensive Examination

Not required.

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. A maximum of one three-credit course from another AACSB-accredited graduate program may be transferred. These courses are subject to Graduate School transfer policy.

### Time Limit

The Executive MBA must be completed in 3 years from initial enrollment date.

## Finance, Graduate Certificate

The Graduate Certificate in Finance is designed for students who desire a sequence of graduate-level courses that focus specifically on financial topics. Through coursework that spans investments, portfolio management, financial markets, and strategy, students will develop the knowledge and skills to gain a competitive edge in the dynamic global financial marketplace. Lubar academic faculty and experienced financial practitioners will lead students in developing their knowledge base and analytical skills to work successfully with decision makers and advance their careers.

*This program can be completed as a standalone certificate or in combination with a master's degree program.*

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

#### Admission

Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Finance. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor's degree with an overall GPA of 2.75 or better.

### Credits and Courses

Code	Title	Credits
<b>Required Courses</b>		<b>12</b>
BUS ADM 771	Investments	
BUS ADM 772	Portfolio Management	
BUS ADM 775	Financial Strategy	
BUS ADM 778	Financial Institutions and Markets	
<b>Electives - Choose one course from the list below:</b>		<b>3</b>
BUS ADM 774	Global Financial Management	

BUS ADM 779 Fixed Income Securities

**Total Credits** 15

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. A maximum of one three-credit course from another AACSB-accredited graduate program may be transferred. These courses are subject to Graduate School transfer policy.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## General Business, Minor

No matter the major, employers in every field are looking for people who have backgrounds in business. The Lubar College of Business offers a General Business Minor to provide a professional business education dimension to non-business students at UWM schools and colleges.

As a Business Minor, courses are completed that examine the many facts of business, including accounting, finance, marketing, management, information systems, and economics, developing business knowledge and skills that assist anyone working in today's marketplace.

The courses in the program are offered in both online and in-person formats. Most students spread out the 29-credit Business Minor coursework over their academic career.

Interested students should contact the academic advisors in Room N297 of Lubar Hall, (414) 229-5271, for further details.

## Requirements

Code	Title	Credits
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
BUS ADM 201	Introduction to Financial Accounting	4
BUS ADM 210	Statistical Modeling in Business Analytics <sup>1</sup>	4
BUS ADM 230	Introduction to Information Technology Management <sup>1</sup>	4
BUS ADM 330	Organizations	3
BUS ADM 350	Principles of Finance	3
BUS ADM 360	Principles of Marketing	3
BUS ADM 370	Introduction to Supply Chain Management	3
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Or equivalent. Consult an academic advisor in Undergraduate Student Services for a list of equivalent courses.

At least 15 credits for the General Business Minor must be completed at UWM. You must also complete all 30 credits with an overall grade point average of at least 2.25. No courses may be taken on a credit/no credit basis.

## Post-baccalaureate General Business Minor

The General Business Minor is available at the post-baccalaureate level. Students requiring no more than 6 credits to complete the minor are eligible. At least 15 credits for the post-baccalaureate General Business Minor must be completed at UWM. A minimum of 3 post-baccalaureate credits must be completed at UWM. A minimum overall GPA of 2.25 on all General Business Minor courses must be earned; a minimum UWM post-baccalaureate GPA of 2.0 is required.

## Global Studies, BA: Global Management

### Global Management Track

The Global Management track of UWM's Global Studies program focuses on the impact of globalization on business and the world economy. Global Studies-Management prepares students as future managers, capable of analyzing transnational issues; strategizing within a global, cross-cultural context; and implementing projects with a strong understanding of globalization's implications for the private and public sectors. Students are required to complete a study abroad program, an overseas internship, and study a foreign language, both practical and applied experiences that provide a distinct edge. This track will prepare students to assume leadership roles in many areas, but it will be advantageous especially in such fields as international business, consulting, education, government, and public policy. In addition,

graduates of this track will meet the background course requirements for admission to an MBA program. The College of Letters and Science and the Sheldon B. Lubar College of Business jointly award this degree.

For more information on how to complete the Global Management Track, see the Global Studies, BA (p. 1088).

## Health Care Management, Graduate Certificate

The Graduate Certificate in Health Care Management is designed for students who desire a sequence of graduate-level courses that focus specifically on the business of health care management. Managers within the health care industry need to be able to understand and address unique industry-specific topics, ranging from delivery systems and integrated health care networks, to specialized accounting, legal, and ethical issues. Students will dig deeper into these areas through a focused set of courses taught by academic faculty and experienced health care executives with deep knowledge of the industry – and alongside other professionals with similar career challenges and goals.

*This program can be completed as a standalone certificate or in combination with a master's degree program.*

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

#### Admission

Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Health Care Management. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor's degree with an overall GPA of 2.75 or better.

### Credits and Courses

Code	Title	Credits
<b>Required Courses</b>		<b>12</b>
BUS ADM 755	Health Care Administration and Delivery Systems	

BUS ADM 757	Managed Care and Integrated Health Networks	
BUSMGMT 720	Strategic Management in Health Care Organizations	
BUSMGMT 727	Health Care Accounting, Law and Ethics	
<b>Electives - Choose one course from the list below:</b>		<b>3</b>
BUS ADM 731	Leadership in Diversity and Inclusion	
BUS ADM 738	Human Resource Management	
BUS ADM 759	Seminar in Health Care Management:	
BUSMGMT 715	Leadership, Team Building, and Effective Management	
<b>Total Credits</b>		<b>15</b>

### Additional Requirements

#### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. A maximum of one three-credit course from another AACSB-accredited graduate program may be transferred. These courses are subject to Graduate School transfer policy.

#### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

#### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

#### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Human Resources and Labor Relations, MHRLR (Lubar College of Business)

## Related Certificates

- Graduate Certificate in Mediation and Negotiation (p. 966)
- Graduate Certificate in International Human Resources and Labor Relations (p. 1127)

Whether you are currently in the field, a recent college graduate or wish to change careers, the Master of Human Resources and Labor Relations (MHRLR) provides the knowledge necessary to thrive. Classes emphasize practical applications, case studies and engagement. Students apply their new knowledge to current workplace challenges.

The MHRLR program provides a thorough understanding of the core functions, contemporary practices and underlying theories of human resources and employment relations.

The MHRLR program values diversity, bringing together students from varying backgrounds and experiences to create a dynamic learning environment in the classroom and beyond.

**What you learn in class can be utilized the next morning at work.**

## Admission Requirements

### Application Deadline

Students may begin their studies in the Fall, Spring or Summer semesters. Applications are accepted on a continuous basis. The program does not have a specific deadline to apply.

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following requirements to be considered for admission to the MHRLR program:

1. Submission of two letters of recommendation to the MHRLR program.
2. Statement of reasons for graduate study.
3. Students admitted to the program will be expected to present at least three credits of prior work in both principles of microeconomics and introductory statistics.
4. Students who are deficient in the areas of principles of microeconomics or statistics at the time of admission (see above), will be expected to satisfy deficiency requirements within three enrolled semesters. Deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted for the degree.
5. Submission of GRE (<http://uwm.edu/graduateschool/admission/#gre>) or GMAT (<http://uwm.edu/graduateschool/admission/#gmat>) scores is recommended, but not required.
6. Applicants are reviewed by the MHRLR admissions committee to assess academic achievements and the ability to do intensive graduate-level work.

## Credits and Courses

The Master of Human Resources and Labor Relations degree will be awarded upon completion of 36 credits of prescribed graduate study

and appropriate prerequisite coursework. The program offers a balance between liberal arts and business-based education, requiring that at least 15 credits be taken within the College of Letters and Science and at least 15 credits be taken within the Lubar College of Business. The MHRLR Program believes in a common body of knowledge and skills necessary to be an effective Human Resource or Labor Relations professional.

The program has a required core of seven courses (21 credits) and five elective courses (15 credits) for a total of 36 credits.

Code	Title	Credits
<b>Required Core</b>		
IND REL 701	Industrial and Labor Relations	3
BUSMGMT 706	Managing in a Dynamic Environment	3
BUS ADM 738	Human Resource Management	3
BUS ADM 735	Staffing Organizations	3
ECON 448G or ECON 753	Economics of Human Resources <sup>1</sup> Collective Bargaining	3
IND REL 712	Employment Law	3
IND REL 731 or BUSMGMT 731	Research Tools for Practitioners in Human Resources and Labor Relations <sup>2</sup> Research Tools for Practitioners in Human Resources and Labor Relations	3
<b>Electives (see list of approved electives below)</b>		<b>15</b>
<b>Total Credits</b>		<b>36</b>

<sup>1</sup> If ECON 448G and ECON 753 are both taken, one of these may be used to help fulfill elective requirements.

<sup>2</sup> The required course Research Tools for Practitioners in Human Resources and Labor Relations can be taken as either IND REL 731 or BUSMGMT 731 (but not both) to help meet the required 15 credit minimum in each the College of Letters and Science and the Lubar College of Business.

## Elective Courses

The choice of electives to complete a MHRLR degree should reflect student interest. Students are not required to choose a specialization and are encouraged to select those electives that best suit their backgrounds and interests. A student may take up to 6 credits from the approved list of alternative electives in other schools such as the School of Nursing, the School of Education, and the School of Social Welfare.

Students without prior experience in the field are encouraged to take advantage of the program's extensive contacts in the business and labor communities by undertaking one or more internships as either BUS ADM 799 or IND REL 921. Students may also utilize the wide range of faculty expertise available within the program for a major research paper on a human resources or labor relations topic. These papers, under the direction of a faculty advisor, are taken as either IND REL 801 or BUS ADM 799. A student may graduate with honors from the MHRLR program by maintaining a 3.5 grade-point average within the program, and by writing a 3-credit major research paper (under BUS ADM 799 or IND REL 801).

Any new course development, programmatic changes, or program name change must be approved by the appropriate curricular committees and faculty in the respective units.

The program, including admissions and course staffing, is subject to the AACSB accreditation requirements.

Code	Title	Credits
<b>Approved Electives</b>		
<i>College of Letters &amp; Science</i>		
IND REL 715	Workplace Dispute Resolution	3
IND REL 725	Total Rewards Compensation	3
IND REL 800	Current Issues in Industrial Relations:	1-3
ECON 415G	Economics of Employment and Labor Relations	3
ECON 448G	Economics of Human Resources	3
ECON 753	Collective Bargaining	3
ECON 755	Comparative Labor Markets and Employment Relations	3
COMMUN 665G	Introduction to Mediation	3
COMMUN 865		3
POL SCI 452G	Administrative Law	3
POL SCI 769	Analyzing and Evaluating Public Policies and Programs	3
SOCIOL 443G	Organizations, Occupations, and Professions	3
<i>Lubar College of Business</i>		
BUS ADM 442G	Industrial Psychology	3
BUS ADM 445G	Training & Development in Organizations	3
BUS ADM 731	Leadership in Diversity and Inclusion	3
BUS ADM 733	Organizational Development	3
BUS ADM 737	Managerial Decisions and Negotiations	3
BUSMGMT 715	Leadership, Team Building, and Effective Management	3
BUSMGMT 723	Managing and Negotiating Across Borders	3
BUSMGMT 728	Training and Development in Organizations	3
<i>Administrative Leadership (College of Community Engagement and Professions)</i>		
AD LDSP 710	Organizational Change and Team Leadership	3
AD LDSP 757	Principles and Foundations of Adult Education	3
AD LDSP 777	Leadership in Multicultural Organizations	3

## Additional Requirements

### Major Professor as Advisor

The assistant director of the MHLR Program advises and supervises newly admitted students. The assistant director, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements.

## Information Technology Management, MS

The Master of Science in Information Technology Management (ITM) program at the Lubar College of Business is an innovative, STEM-designated program that combines technical, managerial, and business knowledge - providing students with a unique blend of skills to address IT challenges in today's dynamic business environment.

Through a combination of rigorous core courses and advanced elective courses, students acquire a diverse skill set in information technology management and develop specialized knowledge and expertise in areas such as enterprise resource planning, business analytics, and security and risk management.

The program is designed to serve both individuals pursuing a change in career, as well as IT professionals desiring greater in-depth knowledge to advance in their careers. In addition, it will prepare students who seek admission to a PhD program. The program can be completed within one to three years, depending upon part-time or full-time enrollment status.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. Submission of scores on the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).
2. Applicants must submit a statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).
3. Review by the MS-ITA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

## Credits and Courses

The MS in ITM degree is a 30-credit program and includes 15 Required credits and 15 Elective credits.

Code	Title	Credits
<b>Required</b>		
BUS ADM 743	Information Privacy, Security & Continuity	3
BUS ADM 744	Information Technology Strategy and Management	3
BUS ADM 747	Service-Oriented Analysis and Design <sup>1</sup>	3
BUS ADM 749	Data and Information Management	3
BUS ADM 810	Development of Web-Based Solutions	3
<b>Electives <sup>2</sup></b>		
Select at least five of the following:		15
BUS ADM 741	Web Mining and Analytics	

BUS ADM 742	Big Data in Business
BUS ADM 745	Artificial Intelligence for Business
BUS ADM 746	Topics in Information Technology Management: (subtitled)
BUS ADM 748	Managing Information Technology Projects (capstone course)
BUS ADM 811	Process and Work-Flow Management
BUS ADM 812	Machine Learning for Business
BUS ADM 813	Social Media Analytics for Business
BUS ADM 814	Enterprise Knowledge & Semantic Management
BUS ADM 816	Business Intelligence Technologies & Solutions
BUS ADM 817	Connected Systems for Business
BUS ADM 818	Information Systems Practicum
BUS ADM 819	Information Technology Management Internship
BUSMGMT 732	Enterprise Resource Planning
BUSMGMT 733	Enterprise Simulation Game

**Total Credits** **30**

<sup>1</sup> Integrating Course

<sup>2</sup> Electives may be completed by selecting 15 credits from the approved list, or by completing an optional concentration in AI and Data Analytics.

## Additional Requirements

### Major Professor as Advisor

Admitted students are assigned a faculty advisor who will work with the student to assemble a program of study. The advisor will monitor students' progress towards degree completion, including modification of program of study plans, if necessary.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

# Information Technology Management, MS: AI and Data Analytics

The Master of Science in Information Technology Management (ITM) program at the Lubar College of Business is an innovative, STEM-designated program that combines technical, managerial, and business knowledge - providing students with a unique blend of skills to address IT challenges in today's dynamic business environment.

Through a combination of rigorous core courses and advanced elective courses, students acquire a diverse skill set in information technology management and develop specialized knowledge and expertise in areas such as enterprise resource planning, business analytics, and security and risk management.

The program is designed to serve both individuals pursuing a change in career, as well as IT professionals desiring greater in-depth knowledge to advance in their careers. In addition, it will prepare students who seek admission to a PhD program. The program can be completed within one to three years, depending upon part-time or full-time enrollment status.

The Graduate Concentration in AI and Data Analytics provides the knowledge needed by professionals working in corporate, non-profit, government, and institutions. The program provides students the ability to research complex topics and to present their conclusions. Courses focus on identifying issues and providing solutions.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. Submission of scores on the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).
2. Applicants must submit a statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).
3. Review by the MS-ITA Program Committee to assess academic achievement and the ability to do intensive graduate-level work.

## Credits and Courses

The MS in ITM degree is a 30-credit program and includes 15 Required credits and 15 Elective credits.

Code	Title	Credits
<b>Required</b>		
BUS ADM 743	Information Privacy, Security & Continuity	3
BUS ADM 744	Information Technology Strategy and Management	3
BUS ADM 747	Service-Oriented Analysis and Design <sup>1</sup>	3
BUS ADM 749	Data and Information Management	3
BUS ADM 810	Development of Web-Based Solutions	3
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Integrating Course

## AI and Data Analytics Concentration

Code	Title	Credits
<b>Select five courses from the following:</b>		
BUS ADM 741	Web Mining and Analytics	
BUS ADM 742	Big Data in Business	
BUS ADM 745	Artificial Intelligence for Business	
BUS ADM 812	Machine Learning for Business	



BUS ADM 813	Social Media Analytics for Business
BUS ADM 816	Business Intelligence Technologies & Solutions
BUS ADM 818	Information Systems Practicum (AI/Data Analytics project only) <sup>2</sup>
BUS ADM 819	Information Technology Management Internship (AI/Data Analytics placement only) <sup>2</sup>
<b>Total Credits</b>	<b>15</b>

<sup>2</sup> Students may select either BUS ADM 818 or BUS ADM 819, but not both.

## Additional Requirements

### Major Professor as Advisor

Admitted students are assigned a faculty advisor who will work with the student to assemble a program of study. The advisor will monitor students' progress towards degree completion, including modification of program of study plans, if necessary.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## International Business, Undergraduate Certificate

Most businesses are affected in some way by international influences, such as currency issues, outsourcing, transportation, or distribution networks. No matter the degree, an understanding of international economics and political and cultural differences will provide new perspectives. Students with an interest in overseas markets and the global economy will find the International Business Certificate a valuable addition to springboard a business career.

The Certificate in International Business is designed to offer UWM students the opportunity to complement their major field of study with an additional concentration in international business. Students will take a coordinated series of international courses and receive a certificate that signifies their knowledge in this area.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intentions.

## Requirements

To obtain the certificate, the student must complete a minimum of 15 approved international business credits while fulfilling all requirements of the baccalaureate degree, including UWM's foreign language requirement. The certificate is open to all undergraduate business and non-business majors and to students who have previously earned a bachelor's degree from UWM or any accredited college or university. Non-business majors will need at least 17 prerequisite credits of business coursework, in addition to ECON 103 and ECON 104, to complete this certificate.

Completing the certificate requires the following:

Code	Title	Credits
<b>Required<sup>1</sup></b>		<b>9</b>
BUS ADM 456	International Financial Management <sup>2</sup>	
BUS ADM 465	International Marketing <sup>2</sup>	
BUS ADM 496	International Business <sup>2</sup>	
<b>Electives</b>		<b>6</b>
Select at least two additional internationally-oriented courses from the following		
BUS ADM 467	Marketing Seminar: (International topics only) <sup>2</sup>	
BUS ADM 494	International Business Internship	
BUS ADM 495	Special Topics in Business: (International topics only) <sup>3</sup>	
BUS ADM 497	Study Abroad: (International topics only) <sup>3</sup>	
BUS ADM 498	Study Abroad: Business Topics:	
BUS ADM 535	Global Information Technology Management <sup>2</sup>	
BUS ADM 541	Cross-Cultural Management	
BUS ADM 551	International Investments <sup>2</sup>	
ECON 351	Introduction to International Economic Relations	
ECON 454	International Trade	
POL SCI 316	International Law	
POL SCI 330	The Politics of International Economic Relations	
POL SCI 339	European Integration	
POL SCI 343	Asian International Relations	
POL SCI 346	U.S.-Latin American Relations	
GLOBAL 311	Contexts for Global Management	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Students majoring in business administration and completing an International Business Certificate can count BUS ADM 496 toward their International Business component.

<sup>2</sup> A business student may count no more than 6 credits from a major towards a business certificate.

<sup>3</sup> Repeatable for credit with a change in topic up to 6 credits.

*Note: Non-business students will need at least 17 prerequisite credits from the Lubar College of Business, in addition to ECON 103 and ECON 104, to complete this certificate. BUS ADM 456 requires BUS ADM 350 (which requires ECON 103, ECON 104, BUS ADM 201, and BUS ADM 210 or equivalent); BUS ADM 465 requires BUS ADM 360 (which also requires ECON 104); and BUS ADM 496 requires BUS ADM 330 (plus BUS ADM 350 and BUS ADM 360).*

Students must complete all coursework required for the certificate with at least a 2.5 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

## Investment Management, Graduate Certificate

The Graduate Certificate in Investment Management provides students with the knowledge and skills necessary to manage a balanced (fixed income and equity) investment fund. Those completing the certificate will gain a substantial competitive edge in pursuing a career as an analyst or an investment advisor, later as an investment portfolio manager, and possibly as a chief investment officer.

The curriculum features a broad spectrum of investment-related subjects, with an emphasis on intensive research and applied training in complex financial tools and techniques. The program also includes a professional internship. Central to the curriculum is the David O. Nicholas Applied Finance Lab, which is equipped with state-of-the-art professional databases and financial software, replicating the technology and market data, analysis, and research available to professional investors in investment firms.

In addition to a rich curriculum, Investment Management Certificate (IMC) students meet regularly with investment professionals during, and outside of, class for discussions of the funds, markets, and course topics. The Bachelor of Business Administration (BBA) in Finance as well as the Undergraduate Certificate in Investment Management are part of the prestigious CFA Institute University Affiliation Program (<https://www.cfainstitute.org/en/about/universities/university-affiliation/>).

Students interested in the certificate program should contact Graduate Student Services, Lubar Hall N251, (414) 251-5252, or [mbams@uwm.edu](mailto:mbams@uwm.edu). Students are also encouraged to contact Dr. Kevin Spellman, the director of the IMC program, at [spellman@uwm.edu](mailto:spellman@uwm.edu) for information on the program.

*This program can be completed as a standalone certificate or in combination with a master's degree program.*

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

It is recommended that the following courses have been completed prior to admission to the certificate: BUSMGMT 705, BUS ADM 721 & BUS ADM 771 (or undergraduate equivalents). If not completed prior to admission to the certificate, BUSMGMT 705 must be taken concurrently with BUS ADM 550. BUS ADM 721 (or BUS ADM 301) and BUS ADM 771 must be taken before, or concurrently with, BUS ADM 552. If a candidate has passed the CFA Level I exam, the student is exempted from BUSMGMT 705, BUS ADM 721, and BUS ADM 771. Admission is competitive and is based on cumulative GPA, course grades, personal statement, a potential interview and interview essays, interest in investments and finance (e.g. Student Investment Club), and other considerations.

To obtain the certificate, a student must complete 21 credits of required coursework. The certificate may be completed alone, or in conjunction with a degree program. Due to the intensity of the coursework in the Investment Management Certificate, the program will be of most interest to students pursuing an M.S. in Management degree with a concentration in Finance Analysis, or an M.B.A. degree.

Code	Title	Credits
<b>Required</b>		
BUS ADM 550	Investment Management Practice I	3
BUS ADM 552	Investment Management Practice II	3
BUS ADM 553	Investment Management Practice III	3
BUS ADM 554	Investment Management Practice IV	3
BUS ADM 772	Portfolio Management <sup>1</sup>	3
BUS ADM 773	Options And Futures <sup>1</sup>	3
BUS ADM 853	Financial Modeling <sup>1</sup>	3
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> Approved MS in Management-Finance Analysis electives.

## Additional Requirements

### Internship Requirement

Students completing the certificate are also required to have an internship experience prior to graduation from the certificate program. The internship experience must be approved by the IMCP director.

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the

degree. (Note: Students in PhD programs must still complete the minimum residency requirements)

- Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
  3. A course may count toward no more than one certificate and one degree.
  4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Investment Management, Undergraduate Certificate

The Investment Management Certificate (IMC) is designed to offer business students the opportunity to enhance their major field of study in finance (or additional major including finance) with an additional certificate in investment management. Students completing the Investment Management Certificate will have coursework in investment-related subjects and four special courses comprising intensive research and real-time practical training in investment portfolio management. This training will utilize the David O. Nicholas Applied Finance Lab located in the Sheldon B. Lubar College of Business. Finance majors who complete this certificate will gain a substantial competitive edge in pursuing a career initially as an analyst and as an investment advisor, later as an investment portfolio manager, and possibly as a chief investment officer.

In addition to a rich curriculum, IMC students meet regularly with investment professionals during, and outside of, class for discussions of the funds, markets, and course topics. The Bachelor of Business Administration (BBA) in Finance as well as the Undergraduate Certificate in Investment Management are part of the prestigious Chartered Financial Analyst (CFA) Institute University Recognition Affiliation Program.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, [uwmbba@uwm.edu](mailto:uwmbba@uwm.edu), to make a formal declaration of their intention. Students are encouraged to also contact Dr. Kevin Spellman ([spellman@uwm.edu](mailto:spellman@uwm.edu)), the director of the IMC program, for further information about the certificate program.

## Requirements

To obtain the certificate, a student must complete 21 credits of required coursework while fulfilling all requirements of the BBA baccalaureate degree. Due to the intensity of the coursework in the Investment Management Certificate (IMC), the program will be of most interest to students pursuing the BBA finance and/or accounting majors. Because IMC program prerequisites are firmly enforced, students are encouraged

to view all relevant course descriptions for prerequisites information in the UWM Catalog: [https://catalog.uwm.edu/courses/bus\\_adm/](https://catalog.uwm.edu/courses/bus_adm/)

Code	Title	Credits
<b>Required</b>		
BUS ADM 452	Applied Portfolio Management <sup>1</sup>	3
BUS ADM 454	Analysis of Options and Futures <sup>1</sup>	3
BUS ADM 457	Financial Modeling <sup>1</sup>	3
BUS ADM 550	Investment Management Practice I	3
BUS ADM 552	Investment Management Practice II	3
BUS ADM 553	Investment Management Practice III	3
BUS ADM 554	Investment Management Practice IV	3
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> A business student may count no more than 9 credits from a major towards the Certificate in Investment Management.

## Eligibility

To apply to the Certificate in Investment Management program, students must be admitted to the Lubar College of Business, have earned a minimum B grade in BUS ADM 201 or BUS ADM 207, be eligible to enroll in BUS ADM 301, and be eligible to enroll in BUS ADM 450 the Fall semester following admission to the program. If a candidate has passed the CFA Level I exam, the student is exempted from BUS ADM 301 (co-requisite for BUS ADM 552). Admission is competitive and is based on cumulative GPA, course grades, personal statement, a potential interview and interview essays, interest in investments and finance (e.g. Student Investment Club), and other considerations.

## Post-baccalaureate Investment Management certificate

The Investment Management certificate is available at the post-baccalaureate level. Students requiring no more than 18 credits to complete the certificate are eligible. At least 12 credits for the post-baccalaureate certificate must be completed at UWM. A minimum overall GPA of 3.0 on all Investment Management certificate courses must be earned; a minimum UWM post-baccalaureate GPA of 3.0 is also required.

## Internship Requirement

Students completing the certificate also are required to have an internship experience prior to graduation from the certificate program. The internship experience must be approved by the IMCP director.

## Graduation Requirements

Students must complete all coursework required for the certificate with at least a 3.0 GPA to have the certificate posted on the transcript at graduation. At least half of the credits required for the certificate must be taken in residence at UWM. No courses may be taken on a credit/no credit basis.

## Management Science, PhD

The Management Science PhD program is a rigorous and high-quality, research-oriented program that offers students an opportunity to specialize in one of six management fields: accounting, finance, information technology management, marketing, organizations & strategic management, and supply chain/operations management.

Students may also minor in business statistics, international business, economics, econometrics, or psychology.

The Lubar College of Business Management Science PhD is a *STEM-designated* program. This rigorous program will provide the independent research skills needed to prepare the student for success in academia or a research-related career.

The classes, papers and exams are the formal portion of this apprenticeship. Beyond that, however, much of what the student learns will occur out of the class by attending research colloquia, presenting personal research, holding informal discussions with faculty, working with faculty and others on research projects, and interacting with other PhD students.

Objectives of the Lubar PhD program include effectively analyzing research questions in the area of specialization, demonstrating research competence, developing teaching skills, and establishing an independent, high quality research record.

The degree requires a minimum of 34 credits beyond the master or 54 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Management Science PhD applications must be received by February 1 for admission to the following Fall semester. The application package must be complete and all materials received by February 1. All applications are reviewed in mid-February for the upcoming academic year starting in September.

Applicants must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements to be considered for admission to the program:

- A bachelor's degree from an accredited college or university. Almost all applicants admitted, however, are master's degree holders.
- Substantial evidence of scholarly potential and commitment.
- Submission of score on either the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>) or the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>).
- Two letters of recommendation in support of the candidate's competence to do doctoral work.
- A written statement from the applicant stating reasons for pursuing PhD level study and an indication of the major field to be studied.

Applicants are expected to have adequate preparation at the undergraduate or graduate level equivalent to one semester each of coursework in calculus, statistics, and linear algebra. Applicants who do not have the above background must complete equivalent courses. Specific courses from the Lubar College of Business or from departments outside the College will be suggested to satisfy preparation in these areas. These courses do not count toward credit requirements for the

degree. As some areas of study admit students for alternating academic years, please review the following Lubar College of Business Website (<https://uwm.edu/business/academic-programs/management-science-phd/admissions/#admission>).

## Reapplication

A student who has received a master's degree in Business Administration from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before beginning studies toward the PhD degree.

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor's degree, of which a minimum of 34 credits must be earned in residence at UWM beyond the master's level.

The student plans an individual program of studies in consultation with the major professor. The program has no formal language requirement but the student is responsible for familiarity with published literature in the area of the student's research. All students will also be required to complete an "Orientation to Teaching and Research" course.

Code	Title	Credits
BUS ADM 900	Doctoral Orientation to Teaching and Research	1
Minimum 12 credits of research methods courses		12
Minimum 12 credits in student's major field		12
Minimum 9 credits in student's minor field of study		9
Electives and BUS ADM 997		20
<b>Total Credits</b>		<b>54</b>

### Stage 1

The first stage of the student's program includes general preparation in a common core of knowledge. Students will be required to validate exposure to functional business areas: accounting, finance, information systems, marketing, and management. Method of validation is to be decided by the advisor and faculty from the major field area.

### Stage 2

The second stage of the program consists of a required research methods component to be satisfied by a minimum of 12 credits from a recommended list of research methods courses.

### Stage 3

The third stage of the program consists of coursework and research in the major and minor fields of study as specified in the student's program of studies. Coursework must include a minimum of 12 credits in the student's major field and a minimum of 9 credits in the student's minor field of study.

As a first step in developing a research focus, PhD students are required to submit a paper by the end of their third semester to be presented at a research seminar, conference, or an on-campus seminar that includes at least two faculty members from their department.

If a student fails to complete the research paper requirement, they will be subject to dismissal from the doctoral program for lack of progress toward degree.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. Within the first semester, the student is assigned an advisor within the student's specialization.

### Residence

The student must meet minimum Graduate School residence requirements.

### Doctoral Preliminary Examinations

The student must pass written doctoral preliminary examinations in the major field of study. Minor field requirements include completing approved coursework with a specified grade point average or passing a written examination as specified by the appropriate department. A student is admitted as a candidate for the Ph.D. degree after successful completion of the doctoral preliminary examinations.

### Dissertation

The candidate must write a dissertation that demonstrates ability to formulate a research topic and pursue independent and original investigation.

### Dissertation Defense

A formal oral defense of the dissertation by the student and certification of the dissertation by the dissertation committee are necessary steps to complete the degree requirements.

### Time Limit

All degree requirements must be completed within 10 years from the date of initial enrollment in the doctoral program.

Additional information on Graduate School PhD requirements is on the Graduate School website (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>).

## Management, MS: Accounting

The STEM-Designated MS in Management - Accounting (MS-A) concentration prepares students for entry into the accounting profession as a Certified Public Accountant (CPA). Employers seek mature students with diverse prior undergraduate education backgrounds and work experiences. The program efficiently covers basic accounting principles and adds graduate level coursework in accounting for governmental and not-for-profit organizations, advanced accounting theory, decision-focused management accounting, and tax compliance and planning.

The program prepares students for success on the CPA exam. Graduates boast a pass rate substantially above national averages. Because the program is separately accredited in accounting by the AACSB (one of three such schools in Wisconsin), graduates automatically meet the requirements to take the CPA Exam and to be licensed as a CPA in Wisconsin.

Potential students typically take foundation courses prior to entering the program. Success in the foundation courses assures success in the program. The graduate program can be completed on a full-time basis in two semesters and a summer. Part-time students can complete the program in two years. A faculty member custom designs a program for

each student. In most cases, a full-time internship is included for full-time students. The internship normally lead to full-time employment upon graduation.

A large portion of MS-A students intern and upon graduation take full-time positions in CPA firms ranging from "The Big 4" International firms to local practices. Other students choose industry positions which include Wisconsin's largest corporations and financial institutions.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements to be considered for admission:

- A bachelor's degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).
- Applicants must submit a statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar College of Business MBA/M.S. brochure and the Lubar College of Business Website (<http://www4.uwm.edu/business/>) for details). Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N458).

The major professor, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic

exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

## Credits and Courses

The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar College of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar College of Business, or from among those offered in graduate programs of other UWM departments.

### Accounting

Code	Title	Credits
<b>Required</b>		
BUS ADM 401G	Introduction to Data Analytics in Accounting	4
BUS ADM 408	Accounting Information Systems	3
BUS ADM 706	Income Tax Accounting II	3
BUS ADM 722	Advanced Financial Accounting Theory	3
BUS ADM 724	Business Combinations and Governmental Accounting	3
BUS ADM 725	Strategic Cost Management I	3
BUS ADM 728	Auditing Theory and Applications <sup>1</sup>	3
BUS ADM 840	Current Issues in Financial Reporting	3
BUS ADM 844	Advanced Audit and Assurance	3
BUS ADM 846	Advanced Analytics in Accounting	3
<i>Additional Credits/Electives (optional)</i>		
Select one or more of the following:		
BUS ADM 727	Information Systems Assurance and Advisory	
BUS ADM 753	Advanced Business Law	
<b>Total Credits</b>		<b>31</b>

<sup>1</sup> Integrating course

## Additional Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

### Major Professor as Advisor

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each MS student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

### The Management Research Project/Thesis

The Management Research Project/Thesis is a variable 2-6 credit management research project.

### Comprehensive Examination

Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.

## Management, MS: Finance Analysis

The STEM-Designated MS in Management - Finance Analysis concentration includes extensive study of financial markets to prepare students for professional careers in corporate and investment finance. The curriculum includes an examination of capital markets, investment banking, financial institutions, corporate financial control, securities valuation techniques, capital budgeting, portfolio strategies, hedging and arbitrage, and international fund management.

The program provides students with foundational training in accounting and statistical analysis and in-depth finance skill sets necessary to understand and meet the growing needs of financial industries and prepares students for the Chartered Financial Analyst (CFA) exams.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements to be considered for admission:

- A bachelor's degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).
- Applicants must submit a statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar College of Business MBA/M.S. brochure and the Lubar College of Business Website (<http://www4.uwm.edu/business/>) for details). Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);

- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N458).

The major professor, in consultation with the student, reviews the student’s academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

## Credits and Courses

The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar College of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar College of Business, or from among those offered in graduate programs of other UWM departments.

### Finance Analysis

Code	Title	Credits
<b>Core</b>		<b>21</b>
BUS ADM 721	Financial Accounting Theory	
BUS ADM 751	Analysis of U.S. Business Environment	
BUS ADM 771	Investments	
BUS ADM 775	Financial Strategy <sup>1</sup>	
BUS ADM 778	Financial Institutions and Markets	
BUSMGMT 705	Corporate Finance	
BUSMGMT 709 or BUS ADM 754	Predictive Analytics for Managers Statistical Analysis	
<b>Electives</b>		<b>12</b>
Select four courses from the following list:		
BUS ADM 713	Business Forecasting Methods	
BUS ADM 772	Portfolio Management	
BUS ADM 773	Options And Futures	
BUS ADM 774	Global Financial Management	
BUS ADM 777	Advanced Corporate Finance	
BUS ADM 779	Fixed Income Securities	
BUS ADM 795	Seminar-in-Management: (Finance Topic)	
BUS ADM 851	Global Investments	
BUS ADM 852	Venture Finance	
BUS ADM 853	Financial Modeling	
<b>Total Credits</b>		<b>33</b>

<sup>1</sup> Integrating course

## Additional Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

### Major Professor as Advisor

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each MS student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

### The Management Research Project/Thesis

The Management Research Project/Thesis is a variable 2-6 credit management research project.

### Comprehensive Examination

Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Management, MS: Marketing

From the expanding presence of social media that empowers customers, to the downward pressure on prices due to increased competition, the rules of marketing continue to be rewritten. Today the number of media options that consumers turn to is in the hundreds of thousands, and businesses must find a way to position themselves strategically and cost effectively.

The STEM-Designated MS-Marketing concentration provides knowledge to strategically position an organization—whether consumer or B2B—for competitive advantage, focusing on marketing strategy, marketing research, consumer behavior, and internet marketing. Additional emphasis on international operations delivers the tools needed to understand and overcome the economic, cultural, political, and legal barriers to international marketing.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements to be considered for admission:

- A bachelor's degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).
- Applicants must submit a statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar College of Business MBA/M.S. brochure and the Lubar College of Business Website (<http://www4.uwm.edu/business/>) for details). Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N458).

The major professor, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

## Credits and Courses

The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar College of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar College of Business, or from among those offered in graduate programs of other UWM departments.

## Marketing

Code	Title	Credits
<b>Core</b>		
BUS ADM 762	Marketing Research	3
BUS ADM 764	Buyer Behavior and Marketing Communications	3
BUS ADM 765	Strategic Product and Brand Management <sup>1</sup>	3
BUS ADM 795	Seminar-in-Management: (Ideas & Applications of Data Science in Different Fields)	3
or BUS ADM 767	Ideas and Applications of Data Science in Different Fields	
BUS ADM 806	International Marketing	3
BUSMGMT 708	Marketing Strategy: Concepts and Practice	3
BUSMGMT 709	Predictive Analytics for Managers	3
<b>Electives</b>		
Select three courses from the following list:		9
BUS ADM 544	New Product Development	
BUS ADM 761	Seminar in Marketing: (current topics)	
BUS ADM 763	Marketing Analytics	
BUS ADM 766	Marketing for Nonprofit Organizations	
BUS ADM 769	Database Marketing	
BUS ADM 894	Internet Marketing	
BUS ADM 899	Management Research Project/Thesis	
BUSMGMT 713	Entrepreneurship: Venture Creation and Management	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Integrating course

## Additional Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

### Major Professor as Advisor

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each MS student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

### The Management Research Project/Thesis

The Management Research Project/Thesis is a variable 2-6 credit management research project.

### Comprehensive Examination

Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of



degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Management, MS: Professional Accounting

The STEM-Designated MS in Management—Professional Accounting (MS-PA) program is the logical capstone degree in accounting for a student with an undergraduate degree in accounting. Students are advised to enter the program immediately after earning their undergraduate degree in accounting to in order to build on their current knowledge.

Lubar College of Business accounting programs are separately accredited by AACSB. We are one of only three accounting programs in the state and one of 193 schools in the world with such accreditation.

Because the undergraduate BBA Accounting major curriculum does not include all coursework needed to successfully pass the Certified Public Accounting (CPA) Exam, the MS-PA program adds advanced work in financial accounting theory, auditing, tax compliance and planning, and law. The program also includes a specialty choice in either Assurance Services (auditing) which covers financial statement analysis, auditing computerized systems and forensics; or a specialty in Taxation which covers multi-jurisdictional taxation, tax research, tax planning, and corporate taxation. Most students enter a public accounting career specializing in either auditing or tax. Some students choose to work for large corporations or financial institutions.

Students are advised to complete an accounting internship prior to entering the program. Typically, internships result in full-time employment offers upon graduation from the MS-PA program. The MS-PA is normally completed in one year (including summer and/or winterim coursework).

Under Wisconsin law, students with an undergraduate degree in accounting are allowed to sit for the CPA Exam during the program. Most students integrate taking the various parts of the CPA Exam while completing the MS-PA degree. Graduates have a pass rate 50% greater than the national average and four times greater than that of UWM undergraduates not entering the MS-PA program. Most students complete the CPA Exam before they begin full-time employment. Completing the MS-PA degree meets the education requirements to be a CPA in Wisconsin.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements to be considered for admission:

- A bachelor's degree from an accredited college or university.
- Submission of score on the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).
- Applicants must submit a statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).
- Review by the Master of Science Program Committee to assess academic achievement and ability to do intensive graduate-level work.

Applicants admitted to the MS program may be required to complete management foundation courses. Individual areas of concentration require different foundation courses. (See Lubar College of Business MBA/M.S. brochure and the Lubar College of Business Website (<http://www4.uwm.edu/business/>) for details). Foundation courses will be waived if students have completed equivalent coursework. Credits earned in these courses do not count toward the degree.

Students select the area of concentration most suited to their educational goals. The areas of concentration in the program are:

- Accounting (first professional degree—open only for students with non-accounting majors at baccalaureate level);
- Professional Accounting (program open to students who have completed an undergraduate degree in accounting);
- Finance Analysis;
- Marketing;
- Taxation.

If a student is waived out of a required course, an approved elective course must be substituted in its place and approved by Graduate Program Services (Lubar N458).

The major professor, in consultation with the student, reviews the student's academic background and career goals and designs an appropriate program of study consistent with degree requirements. In developing a program of study for a student who has no undergraduate background in business administration, care is taken to ensure a basic exposure to different aspects of the management field as well as an in-depth preparation in the chosen field of specialization.

## Credits and Courses

The minimum degree requirement for the Master of Science in Management degree concentrations varies from 30-33 graduate credits. In the 30-credit concentrations, at least 18 credits must be taken in the Lubar College of Business.

Electives provide distinction to each individual program. Through proper selection and packaging, each student can design a program to meet individual educational objectives while maintaining a high degree of academic strength. These courses may be selected from the many available in the Lubar College of Business, or from among those offered in graduate programs of other UWM departments.

### Professional Accounting

Code	Title	Credits
<b>Required</b>		
BUS ADM 724	Business Combinations and Governmental Accounting	3
BUS ADM 706	Income Tax Accounting II	3
BUS ADM 753	Advanced Business Law	3

BUS ADM 840	Current Issues in Financial Reporting	3
BUS ADM 844	Advanced Audit and Assurance	3
BUS ADM 846	Advanced Analytics in Accounting	3
<b>Electives</b>		
Select four courses from the list below:		12
BUS ADM 726	Strategic Cost Management II	
BUS ADM 727	Information Systems Assurance and Advisory	
BUS ADM 743	Information Privacy, Security & Continuity	
BUS ADM 749	Data and Information Management	
BUS ADM 771	Investments	
BUS ADM 772	Portfolio Management	
BUS ADM 773	Options And Futures	
BUS ADM 774	Global Financial Management	
BUS ADM 775	Financial Strategy	
BUS ADM 778	Financial Institutions and Markets	
BUS ADM 779	Fixed Income Securities	
BUS ADM 816	Business Intelligence Technologies & Solutions	
BUS ADM 821	Advanced Taxation	
BUS ADM 841	Financial Statement Analysis <sup>1</sup>	
BUSMGMT 726	Study Abroad: Business Topics:	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Integrating course

## Additional Requirements

Students in the MS program have the option of doing a management research project. This option gives students the opportunity to apply methodological techniques and area studies. The urban location and strong ties with the business sector provide opportunities for student projects.

### Major Professor as Advisor

Students in the MS program must choose a major professor during the first ten weeks of their first semester of graduate enrollment to advise and supervise their studies. A listing of faculty by area of interest is sent to each MS student to aid in their selection of a major professor. This list is also available in the Graduate Programs Services office, Lubar N251.

### The Management Research Project/Thesis

The Management Research Project/Thesis is a variable 2-6 credit management research project.

### Comprehensive Examination

Students must pass a final oral examination if they choose a 4-6-credit management research project or thesis.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment. In areas of concentration in which the total number of degree credits required exceeds 30, the student must complete all degree requirements within seven years of initial enrollment.

## Marketing, Graduate Certificate

The Graduate Certificate in Marketing is designed for students who desire a sequence of graduate-level courses that focus specifically on marketing topics. The certificate spans key topics that are relevant in today's ever-changing landscape, such as marketing research, product and brand management, internet marketing, marketing analytics, and more. Lubar academic faculty, together with experienced marketing executives, will bring their real-world experience to the classroom, providing students with the knowledge needed to advance their practice.

*This program can be completed as a standalone certificate or in combination with a master's degree program.*

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Marketing. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor's degree with an overall GPA of 2.75 or better.

## Credits and Courses

Code	Title	Credits
<b>Required Courses</b>		<b>9</b>
BUS ADM 762	Marketing Research	
BUS ADM 765	Strategic Product and Brand Management	
BUS ADM 894	Internet Marketing	
<b>Electives - Choose two courses from the list below:</b>		<b>6</b>
BUS ADM 544	New Product Development	
BUS ADM 761	Seminar in Marketing:	
BUS ADM 763	Marketing Analytics	
BUS ADM 764	Buyer Behavior and Marketing Communications	
BUS ADM 766	Marketing for Nonprofit Organizations	
BUS ADM 769	Database Marketing	

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. A maximum of one three-credit course from another AACSB-accredited graduate program may be transferred. These courses are subject to Graduate School transfer policy.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Nonprofit Management and Leadership, MS (Lubar College of Business)

The College of Letters & Science and the Lubar College of Business offer a Master of Science in Nonprofit Management and Leadership. The program is designed to provide students with the essential theoretical and practical knowledge and skills to manage and lead nonprofit sector organizations successfully.

Courses address the full range of skills needed to serve nonprofit organizations effectively, including financial management, resource development, governance, organizational leadership, and program

planning and accountability. Both students and instructors in the program include experienced professionals representing a full spectrum of nonprofit organizations.

The Master of Science in Nonprofit Management and Leadership is one of only 12 programs worldwide to be recognized with accreditation from the Nonprofit Academic Centers Council (NACC). Per the accreditation review panel, UWM's program "...unambiguously meets 16 of the 16 major content subject areas through curriculum instruction..." and surpassed these requirements in 10 of those categories. Online options for program completion are available.

## Related Certificates

- Graduate Certificate in Nonprofit Management (p. 308)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

To be admitted to the MS in Nonprofit Management and Leadership degree program, an applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>).

During the admissions process, students will be asked to show evidence of having satisfactorily completed undergraduate or higher level foundation coursework in the principles of accounting and economics. Those students who are unable to show such evidence may be admitted with these academic deficiencies but will then meet with their respective academic advisors to identify and obtain approval for what they must do to remove these deficiencies.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants must submit the following for review by the Graduate School and the Nonprofit Management Program Faculty Committee:

1. Official transcripts from all colleges or universities previously attended.
2. Three letters of recommendation from persons familiar with the applicant's academic ability and/or professional achievements.
3. Scores from either the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>) or the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).
4. For those students whose native language is not English, minimum TOEFL score (Test of English as a Foreign Language) of 550 PBT or 79 iBT or minimum IELTS score (International English Language Testing System) of 6.5.
5. Each student's academic preparation is evaluated at the time of application. A personal interview may be required.

## Credits and Courses

The MS in Nonprofit Management and Leadership degree requires satisfactory completion of 39 credits of graduate-level coursework including 33 credit-hours of required or “constrained choice” courses and 6 credit-hours of elective courses as follows:

Code	Title	Credits
<b>Required</b>		
<i>Introductory</i>		
BUSMGMT 718	Concepts and Practice of Nonprofit Management	3
<i>Core</i>		
BUS ADM 766	Marketing for Nonprofit Organizations	3
BUSMGMT 721	Fundraising and Development for Nonprofit Organizations	3
BUSMGMT 724	Accounting for Nonprofit Organizations	3
NONPROF 705	Professionals and Volunteers in Nonprofit Organizations	3
NONPROF 725	Governance of Nonprofit Organizations	3
NONPROF 792	Decision-Making for Nonprofit and Public Organizations	3
NONPROF 793	Law of Nonprofit Organizations	3
NONPROF 795	Introduction to Nonprofit Revenue Streams and Portfolios	3
Select one of the following:		3
NONPROF 791	Nonprofit Advocacy and Public Policy	
NONPROF 958	Seminar in Nonprofit Administration: (The Nonprofit Economy)	
NONPROF 740	Executive Leadership of Nonprofit Organizations	
<i>Capstone</i>		
BUSMGMT 730	Strategic Management and Leadership for Nonprofit Organizations <sup>1</sup>	3
<b>Electives</b>		
Select two of the following: <sup>2</sup>		6
BUS ADM 731	Leadership in Diversity and Inclusion	
BUS ADM 737	Managerial Decisions and Negotiations	
BUSMGMT 706	Managing in a Dynamic Environment	
BUSMGMT 707	Information Technology Management in International Businesses	
BUSMGMT 715	Leadership, Team Building, and Effective Management	
NONPROF 750	Social Entrepreneurship in the Nonprofit Sector	
NONPROF 765	International Nongovernmental Organizations	
NONPROF 770	Leveraging Technology in the Public and Nonprofit Sectors	
NONPROF 785	Managing Change in Public and Nonprofit Organizations	
NONPROF 921	Nonprofit Administrative Internship	
PUB ADM 461	Organizational Theory and Practice	
PUB ADM 769	Analyzing and Evaluating Public Policies and Programs	
SOCIOL 920	Sociology of Race and Ethnicity	

URB STD 901	Urban Social Structure
<b>Total Credits</b>	<b>39</b>

<sup>1</sup> This course will serve as the integrative “capstone” requirement for the program and must be taken after completing all other required courses (or concurrently with the final required courses).

<sup>2</sup> This is a pre-approved but not exhaustive list: Students may request alternative courses offered in other departments at UWM. Please send an email to Program Advisor with a course description and/or syllabus, and stated reasons why the course being proposed is an appropriate fit for the student’s academic and career goals.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

### Thesis

Not Required

### Comprehensive Examination

Not Required

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Nonprofit Management, Graduate Certificate (Lubar College of Business)

The Graduate Certificate in Nonprofit Management is a collaborative effort between the Lubar College of Business, the College of Letters & Science, and other campus units that have research and teaching interests in nonprofit management and leadership, nonprofit organizations, the nonprofit sector, and philanthropy. The certificate responds to the growing need for trained professionals to assume management and leadership positions in non-governmental, nonprofit sector organizations.

The multi-disciplinary Graduate Certificate in Nonprofit Management is designed to provide students with the knowledge and skills needed to pursue or advance careers within nonprofit sector organizations successfully. It is the first graduate-level program to be provided by any college or university in the State of Wisconsin that has been specifically designed for the leaders and managers of nonprofit organizations.

## Combining the Graduate Certificate with Another Graduate Degree

Students in degree programs across campus such as urban studies, public administration, business, social welfare, education, or the arts, have combined the Graduate Certificate in Nonprofit Management with their degree to further enhance their academic preparation for their particular career goals.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Students wishing to earn a Graduate Certificate in Nonprofit Management must complete the required 15 graduate credit hours. No student may complete all 15 credits within a single school or college. The curriculum consists of the following five courses:

Code	Title	Credits
<b>Required</b>		
BUSMGMT 718	Concepts and Practice of Nonprofit Management	3
BUSMGMT 721	Fundraising and Development for Nonprofit Organizations	3
BUSMGMT 724	Accounting for Nonprofit Organizations	3
NONPROF 725	Governance of Nonprofit Organizations	3
<b>Electives</b>		
Select one of the following:		3
BUS ADM 766	Marketing for Nonprofit Organizations	
NONPROF 740	Executive Leadership of Nonprofit Organizations	
NONPROF 705	Professionals and Volunteers in Nonprofit Organizations	
NONPROF 795	Introduction to Nonprofit Revenue Streams and Portfolios	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Gainful Employment Disclosure Information

- UWM Financial Aid Gainful Employment (<https://uwm.edu/onestop/finances/receiving-financial-aid/non-degree-students/#primary>)
- Gainful Employment Disclosure Information (<https://uwm.edu/gis-certificate/wp-content/uploads/sites/323/2019/06/gis-cert-gedt-2019.pdf>)

## Organizational Leadership in Diversity, Equity and Inclusion, Graduate Certificate

The Organizational Leadership in Diversity, Equity and Inclusion Graduate Certificate provides working professionals from a variety of fields with the knowledge, skills and abilities needed to lead effective diversity and

inclusion initiatives in their workplaces and communities. Course content helps students identify issues, craft solutions, and develop the ability to research and understand the complexities of diversity and inclusion.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Organizational Leadership in Diversity, Equity and Inclusion. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor's degree with an overall GPA of 2.75 or better.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
<b>Required Courses</b>		
BUS ADM 731	Leadership in Diversity and Inclusion	3
BUSMGMT 715	Leadership, Team Building, and Effective Management	3
<b>Electives</b>		
Choose three courses from the list below:		9
AD LDSP 777	Leadership in Multicultural Organizations	
AFRIC 821	Race and Inequality	
BUS ADM 738	Human Resource Management	
BUSMGMT 706	Managing in a Dynamic Environment	
IND REL 712	Employment Law	
NONPROF 740	Executive Leadership of Nonprofit Organizations	
OCCTHPY 625	Design and Disability	
WGS 710	Advanced Feminist Theory	
WGS 740	Advanced Queer Theory	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. A maximum of one three-credit course from another AACSB-accredited graduate program may be transferred. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Public Administration, MPA (Lubar College of Business)

The College of Letters and Science and the Lubar College of Business offer and present jointly the Master of Public Administration (MPA).

The program is designed to provide theoretical and practical preparation for careers in public and non-profit administration with three areas of concentration: municipal management, general public administration, and non-profit management.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for

specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements and hold a bachelor’s degree from an accredited college or university to be considered for admission.

There are no fixed prerequisites in terms of prior academic training; but background in public administration, American governmental institutions, economics, statistics, and computer applications in social science is beneficial. Each student’s academic preparation is evaluated at the time of application. A personal interview may be required.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

The MPA program requirements to be considered for admission are:

1. An undergraduate grade point average of at least 3.0 (4.0 scale).
2. Three letters of recommendation from persons familiar with applicant’s academic ability and achievement.
3. Submission of scores on the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>) or the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).

Candidates seeking admission to the MPA/MUP program must apply to and be admitted to both programs. The requirements for admission to the MUP program are detailed in the Urban Planning section of this Catalog.

## Credits and Courses

The Master of Public Administration degree requires satisfactory completion of 39-42 credits of prescribed graduate study and appropriate coursework.

### Minimum Grade Requirements in the Core Courses

In order to demonstrate mastery of the critical Core Course material, MPA students must achieve a grade point average of 3.0 in the six Core Courses, and, regardless of average, students must earn a grade of B- or better in each Core Course. If a grade of C+ or lower is earned in any Core Course, that course must be repeated in an effort to earn the minimum grade of B-. If the student’s grade point average in the six Core Courses is below 3.0, the student must repeat one or more Core Courses in which a grade of lower than B was earned in an effort to establish a grade point average of 3.0 in the Core. (For purposes of this requirement, the grade point average for the Core Courses will be calculated on the basis of only the highest grade earned; that is, the grade earned in the first attempt at a Core Course will not be averaged with the grade earned in the repeat.)

### Core Requirements

Students entering the MPA program will be placed, at the discretion of the MPA Director, in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A students and 42 credits for Track B students.

Code	Title	Credits
<b>Required Core</b>		
BUSMGMT 709	Predictive Analytics for Managers	3
BUS ADM 738	Human Resource Management	3
PUB ADM/URBPLAN 630	Budgeting and Finance in the Public Sector	3
PUB ADM 763	Scope and Dynamics of Public Administration	3
PUB ADM 769	Analyzing and Evaluating Public Policies and Programs	3
PUB ADM 921	Public Service Administrative Internship <sup>1</sup>	3
Select one of the following:		3
BUS ADM 443	Special Topics in Human Resources Management:	
BUSMGMT 706	Managing in a Dynamic Environment	
BUS ADM 731	Leadership in Diversity and Inclusion	
BUS ADM 737	Managerial Decisions and Negotiations	
<b>Tracks</b>		
Select Track A or B below		15-18
<b>Capstone</b>		
PUB ADM 959	Capstone Seminar in Public Administration <sup>2</sup>	3
<b>Total Credits</b>		<b>39-42</b>

<sup>1</sup> Waived for students with significant experience in the public or nonprofit sector; see Track A.

<sup>2</sup> Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

### Track A

Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have the Government/Nonprofit Administrative Internship course (PUB ADM 921) waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

### Track B

Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

Every student must select and complete the requirements for one of the following three concentrations:

### Municipal Management

Code	Title	Credits
<b>Required</b>		
Select two of the following:		6
PUB ADM 730	Budgeting for Public Sector Professionals	

PUB ADM 965	Municipal Management	
PUB ADM 750	Public Administration Risk and Analysis	
Select two of the following:		6
POL SCI/PUB ADM 914		
URBPLAN 651	Land Use Planning Practice	
URBPLAN 684	Planning Local Economic Development	
URBPLAN 701 & URBPLAN 702	Introduction to Land Use Planning and Introduction to Planning Law	
<b>Electives</b>		
Select at least 6 elective credits <sup>1</sup>		6
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Selected by the student with the approval of the MPA Director that relate to the student's substantive interests within the discipline of public administration.

Other courses may be substituted with the approval of the MPA Director.

#### General Public Administration

Code	Title	Credits
<b>Required</b>		
Select four of the following:		12
BUS ADM 441	Diversity in Organizations (if not used to satisfy seminar in organizational management requirement)	
PUB ADM 400	Ethics and Responsibility in Public Administration	
PUB ADM/POL SCI 452	Administrative Law	
PUB ADM 705		
PUB ADM 750	Public Administration Risk and Analysis	
POL SCI/PUB ADM 914		
PUB ADM 958	Seminar in Public Administration:	
<b>Electives</b>		
Select at least 6 elective credits <sup>1</sup>		6
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Selected by the student with the approval of the MPA Director that relate to the student's substantive interests within the discipline of public administration.

#### Nonprofit Organization and Management

Code	Title	Credits
<b>Required</b>		
BUS ADM 766	Marketing for Nonprofit Organizations	3
BUS ADM 724	Business Combinations and Governmental Accounting	3
NONPROF 789	Theory and Role of Nonprofit Organizations	3
PUB ADM 958	Seminar in Public Administration:	3
<b>Electives</b>		
Select at least 6 elective credits <sup>1</sup>		6
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Selected by the student with the approval of the MPA Director that relate to the student's substantive interests within the discipline of public administration.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

### Thesis

Not required.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment. Students in the MPA/MUP program are allowed up to seven years to complete all requirements for both degrees.

## Public Administration, MPA/Criminal Justice and Criminology, MS

Both departments collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice & Criminology and the MPA program.

## Credits and Courses

Students accepted into this MS/MPA program complete the following courses:

### MS in Criminal Justice & Criminology

Code	Title	Credits
<b>Required</b>		
CRM JST 773	Criminological Perspectives	3
CRM JST 743	Proseminar: Administration of Criminal Justice Systems	3
CRM JST 756	Proseminar: Analysis of Criminal Justice Research	3
<b>Electives</b>		
Select 12 additional credits within the criminal justice & criminology program		12



Select 12 additional credits with the consent of the student's advisor	12
<b>Total Credits</b>	<b>33</b>

### Master of Public Administration

Students entering the MPA program will be placed, at the discretion of the MPA Director in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A and 42 for Track B.

#### Track A

Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have PUB ADM 921 waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

#### Track B

Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

Code	Title	Credits
<b>Required Core</b>		
BUS ADM 738	Human Resource Management	3
PUB ADM 763	Scope and Dynamics of Public Administration	3
PUB ADM 769	Analyzing and Evaluating Public Policies and Programs	3
Select one of the following:		3
BUSMGMT 709	Predictive Analytics for Managers	
PUB ADM 792	Decision-Making for Nonprofit and Public Organizations	
CRM JST 756	Proseminar: Analysis of Criminal Justice Research	
Select one of the following:		3
BUS ADM 441	Diversity in Organizations	
BUS ADM 443	Special Topics in Human Resources Management:	
BUS ADM 737	Managerial Decisions and Negotiations	
<b>Capstone</b>		
PUB ADM 959	Capstone Seminar in Public Administration <sup>1</sup>	3
<b>General Public Administration</b>		
Select three of the following:		9
BUSMGMT 724	Accounting for Nonprofit Organizations	
PUB ADM 400	Ethics and Responsibility in Public Administration	
PUB ADM/URBPLAN 630	Budgeting and Finance in the Public Sector	
PUB ADM 750	Public Administration Risk and Analysis	
PUB ADM/POL SCI 914	Seminar in Intergovernment Relations	
PUB ADM 958	Seminar in Public Administration:	
PUB ADM 965	Municipal Management	
<b>Concentration</b>		
Select 12 credits in CRM JST		12

Internship		
PUB ADM 921	Public Service Administrative Internship <sup>2</sup>	3
<b>Total Credits</b>		<b>42</b>

<sup>1</sup> Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

<sup>2</sup> An internship is mandatory for students with no public sector work experience.

### Total Degree Credits for Master of Public Administration: 48-51 cr

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

## Additional Requirements

### Time Limit

Students in the coordinated MS/MPA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Public Administration, MPA/Urban Planning, MUP

A coordinated degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently.

This program is intended to combine professional training in planning with applied administrative and managerial skills. The MPA/MUP requirements are described later in this section.

## Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

This program allows students to complete master's degrees in Public Administration and in Urban Planning concurrently. The coordinated degree requires 42-45 credits of required courses and completion of a concentration in Public Administration (18 credits). However, because some courses completed for the core requirements of the MUP also may count toward the MPA concentration, students may complete the dual degree with a minimum of 54-57 credits. The total number of credits will depend on the student's track and choice of concentration in public administration.

**Required Courses in Urban Planning (27 credits)**

Code	Title	Credits
URBPLAN 701	Introduction to Land Use Planning	1
URBPLAN 702	Introduction to Planning Law	2
URBPLAN 711	Planning Theories and Practice	3
URBPLAN 720	Urban Development Theory and Planning	3
URBPLAN 721	Applied Planning Methods	3
URBPLAN 740	Data Analysis Methods I	3
URBPLAN 810	Planning Policy Analysis	6
URBPLAN 811	Applied Planning Workshop	3
Select one of the following:		3
URBPLAN 751	Introduction to Urban Design and Physical Planning	
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
URBPLAN 857	Urban Design as Public Policy	
<b>Total Credits</b>		<b>27</b>

**Required Courses in Public Administration (18 credits)**

Code	Title	Credits
BUS ADM 738	Human Resource Management	3
URBPLAN 630	Budgeting and Finance in the Public Sector	3
POL SCI 763		3
PUB ADM 921	Public Service Administrative Internship <sup>1</sup>	3
or URBPLAN 991	Legislative/Administrative Agency Internship	
PUB ADM 959	Capstone Seminar in Public Administration	3
Select one seminar in organizational management and leadership from the following:		3
BUS ADM 731	Leadership in Diversity and Inclusion	
BUS ADM 732	Transforming Organizations	
BUS ADM 737	Managerial Decisions and Negotiations	
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> The internship requirement will be waived for students with significant public sector work experience.

**Concentration Requirement (18 credits)**

Completion of all the requirements for one of the concentrations in Public Administration. A maximum of six credits of MUP core courses may be used as electives in the MPA concentrations.

## Real Estate, Undergraduate Certificate

The Real Estate Certificate is designed to offer students the opportunity to complement their major field of study with an additional concentration in real estate. Students completing the Real Estate Certificate will have coursework in real estate finance, valuation, environmental real estate issues and property development, as well as real estate law.

This background, when added to a business major, opens career opportunities to students in mortgage banking and commercial real

estate lending, commercial leasing and brokerage, appraisal and valuation, real estate investment analysis, and property development and management.

Students may also benefit from becoming student members of the Institute for Real Estate Management (IREM) and the Commercial Association of Realtors Wisconsin (CARW) while pursuing the certificate.

Students interested in the certificate program should contact Undergraduate Student Services, Lubar Hall N297, (414) 229-5271, uwmbba@uwm.edu, to make a formal declaration of their intention.

## Requirements

The Real Estate certificate is open to all students in good standing seeking a bachelor's degree at the University of Wisconsin-Milwaukee and to all students who have previously received a bachelor's degree from UWM or any other accredited college or university. Business students completing a real estate certificate may utilize the courses as part of their business elective requirements.

Code	Title	Credits
<b>Required</b>		
BUS ADM 380	Introduction to Real Estate Markets	3
BUS ADM 481	Real Estate Finance & Asset Management	3
BUS ADM 483	Property Development and Management	3
or ARCH 780	The Built Environment and Real Estate Development	
<b>Elective</b>		
Select two of the following courses:		6
BUS ADM 389	Real Estate Internship	
BUS ADM 482	Valuation of Real Estate	
BUS ADM 484	Real Estate Law	
BUS ADM 486	Managing and Leasing Commercial Real Estate	
ARCH 560	Introduction to Historic Preservation	
ARCH 601	Special Topics:	
or ARCH 801	Special Topics:	
URBPLAN 651	Land Use Planning Practice	
URBPLAN 662	Public Sector Influence on Real Estate Development	
<b>Total Credits</b>		<b>15</b>

*Note: Non-business majors are required to complete ECON 104 in order to fulfill requirements for this certificate. A business minor also satisfies the prerequisite coursework for non-business students.*

All coursework required for the Real Estate Certificate must be completed with at least a 2.5 GPA in order to post the certificate on the transcript. At least half of the credits required for the certificate must be taken in residence at UWM. Real Estate Certificate courses may not be taken on a credit/no credit basis except for BUS ADM 389.

## Taxation, Graduate Certificate

Being a tax professional is a challenging and rewarding career. Tax professionals apply an extensive set of rules to financial information

organized by accountants in a variety of organizations. Understanding and applying tax rules is a skill set that is needed in certified public accounting (CPA) firms, law firms, corporations, tax-exempt organizations, and in branches of government. The rules are ever evolving and changing, as are the tools utilized to perform functions such as tax return preparation and tax impact modeling. Considering the global business and tax implications that exist in many organizations today, you have the platform to utilize these skills to provide significant value in any organization.

Obtaining a tax certificate will provide you with advanced training that will allow issue recognition in transactions you are involved with. That may be as a consultant with a CPA or law firm, as part of an organization's internal financial staff, or as an auditor with a government agency. The courses involved with the certificate will train you to research and apply the rules to the issues identified, with sound factual and legal reasoning resulting in a supportable conclusion. You will further be prepared to apply those conclusions to positions on tax returns or in transaction modeling projects where mitigating the tax impact is essential.

Obtaining a tax certificate will also be a signal to your employer—or prospective employers—that you have a willingness to obtain rigorous training that would be difficult to achieve elsewhere, and a passion to apply that training. The Lubar College of Business tax certificate program offers 6 classes—5 required to obtain the certificate—taught by a combination of professors that bring significant research and teaching credentials and instructors from the business community that bring real-world experience to the classroom.

Candidates for the tax certificate should possess good analytical skills, have a desire to apply complex rules to a given set of facts, and be intellectually satisfied with conclusions that, while supportable, may not be absolute. If you are currently working in a CPA firm, law firm, the financial department of a business that has tax compliance requirements, or in a government revenue department, please consider enrolling in the Lubar College of Business Graduate Tax Certificate program. For admission information, please see next page.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students will be required to have a bachelor's or master's degree in business, with a major in accounting or finance, or a Juris Doctor law degree. Coursework must include at least one course in taxation.

Applicants are required to submit a statement of purpose (1 to 2 pages on why you would like to earn your degree at the Lubar College of Business and your plans after graduation).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School

through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).

- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
<b>Required Courses</b>		
BUS ADM 821	Advanced Taxation	3
BUS ADM 823	Corporate Income Taxation	3
BUS ADM 828	Taxation of Partnerships, S Corporations, and LLCs	3
<b>Elective Courses</b>		
Complete two courses from the following:		6
BUS ADM 820	Tax Research, Practice, and Procedure <sup>1</sup>	
BUS ADM 826	Tax Planning for Individuals	
BUS ADM 839	Topics in Taxation: (Tax Issues and Planning for Multi-jurisdictional Businesses)	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Recommended for students that do not have experience in tax research.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Technology Entrepreneurship, Graduate Certificate

*Admission to the Technology Entrepreneurship graduate certificate program is temporarily suspended.*

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students currently enrolled in a UWM graduate program are eligible to earn the Graduate Certificate in Technology Entrepreneurship. Persons not currently enrolled must apply for admission to the Certificate and must possess, at a minimum, a bachelor's degree with an overall GPA of 2.75 or better.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
BUS ADM 544	New Product Development	3
BUS ADM 546	Global Innovation Management	3
BUSMGMT 741	Management of Technology Ventures	3

BUSMGMT 742	Technology Innovation and Corporate Entrepreneurship	3
BUSMGMT 743	Technology Entrepreneurship Project	3

In addition, to fulfill graduation requirements, students will complete pre-approved zero-credit professional activities.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Technology Entrepreneurship, Undergraduate Certificate

**Note:** *Admission to the Undergraduate Certificate in Technology Entrepreneurship is suspended effective Fall 2017.*

The online Certificate in Technology Entrepreneurship is designed for business or engineering students who desire a sequence of undergraduate level courses that focus specifically on Technology Entrepreneurship and that are delivered through an online instructional environment. The focus of the certificate is to prepare students to meet

the growing global need for individuals who can think innovatively and successfully pursue the commercialization of their innovative ideas and technological solutions, either independently or within the confines of an established organization. Students who complete this certificate will gain a substantial competitive edge in pursuing a career either as an engineer or as a business specialist by combining their entrepreneurial skills and capabilities with their particular field of expertise. The program will prepare students for fast-track leadership positions in technology-based and/or manufacturing companies.

For more information regarding the application process, business majors may contact Undergraduate Student Services (LUB N297) or call 414-229-5271, and CEAS majors may contact the Student Advising Office (EMS E386) or call 414-229-4667.

## Eligibility

Students currently enrolled in a UWM business or engineering undergraduate program (or at any other accredited engineering or business baccalaureate program) are eligible to earn the Certificate in Technology Entrepreneurship. This certificate is also open to business and engineering graduates.

## Requirements

In addition, to fulfill graduation requirements, students will complete pre-approved, zero-credit professional activities.

Code	Title	Credits
<b>Required</b>		
BUS ADM/MECHENG 542	Introduction to Technology Entrepreneurship	3
BUS ADM/MECHENG 543	Introduction to Technology Management and Innovation	3
BUS ADM/MECHENG 544	New Product Development	3
BUS ADM/MECHENG 546	Global Innovation Management	3
BUS ADM/MECHENG 548	Technology Venturing Project	3
<b>Total Credits</b>		<b>15</b>

*Note: A maximum of 6 credits from the Undergraduate Certificate in Technology Entrepreneurship may also count toward other UWM undergraduate degrees.*

## Graduation Requirements

Students must complete all coursework required for the certificate with at least a 2.5 GPA to have the certificate posted on the transcript at graduation. Students must complete all certificate courses within 3 years of initial enrollment in the certificate program.

# COMMUNITY ENGAGEMENT AND PROFESSIONS (COLLEGE OF)

The College of Community Engagement & Professions at the University of Wisconsin-Milwaukee is comprised of the School of Education, Helen Bader School of Social Welfare, and School of Information Studies. Through our diverse programs and strong community relationships, we prepare students to inspire, innovate, and excel in their professional lives and within their communities.

## School of Education

The School of Education is the state's premier school for the research and practice of urban education. Our mission is to prepare our students to meet the unique social and economic challenges facing today's urban, suburban, and rural schools. We combine theory and practice—providing students with extensive opportunities for hands-on, practical experiences before they graduate—led by a diverse faculty recognized internationally for scholarship, leadership, and research.

**To learn more, visit the** School of Education (<https://uwm.edu/education/>) **website.**

## Helen Bader School of Social Welfare

The Helen Bader School of Social Welfare provides an unmatched environment for students to study social work and criminal justice. Its location in metropolitan Milwaukee gives students numerous opportunities to gain practical experience in social, health, educational, or criminal justice agencies.

**To learn more, visit the** Helen Bader School of Social Welfare (<https://uwm.edu/socialwelfare/>) **website.**

## School of Information Studies

The School of Information Studies (SOIS) degree programs prepare students for careers in the Information Technology and Library professions. Our academic programs are designed to meet the challenges of the digital world and an ever-expanding information landscape. SOIS graduates are prepared for careers across the spectrum of information, data, and technology.

**To learn more, visit the** School of Information Studies (<https://uwm.edu/informationstudies/>) **website.**

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## Education (School of)

The University of Wisconsin-Milwaukee School of Education is **the state's premier school for the research and practice of urban education.**

Here, we prepare our students to be leaders in their profession—as teachers, counselors, administrators, or leader-educators in social service agencies, business, and government. UWM School of Education graduates work in dozens of education-related careers.

Our mission is to prepare our students to meet the unique social and economic challenges facing today's urban, suburban and rural schools. We combine theory and practice—providing students with extensive opportunities for hands-on, practical experiences before they graduate—led by a diverse faculty recognized internationally for scholarship, leadership, and research.

## About our Programs

The School of Education offers an array of Bachelor of Science (BS) Programs, five Master's Degree Programs, and Wisconsin's only PhD in Urban Education. We also offer undergraduate and graduate certificates to enhance professional development. Certificates consist of focused coursework designed to provide targeted academic preparation.

## Continuing Education for Teachers

Teachers who need to earn credits to renew a teaching license to meet local school system or state Department of Public Instruction requirements should contact the Office of Student Services at (414) 229-4271 for information and admission.

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## Interdisciplinary

- Curriculum and Instruction, MS: Cultures and Communities Education (p. 390)
- Arts Integration and Learning, Undergraduate Certificate (School of Education, Department of Teaching and Learning) (p. 384)
- Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership) (p. 329)
- Urban Education, PhD: Art Education (p. 452)

## Mathematics Education (p. 378)

- Education, BS: Mathematics Education, Grades 4-12 (p. 414)
- Curriculum and Instruction, MS: Mathematics Education (p. 396)
- Curriculum and Instruction, MS: Mathematics Teacher Leadership (p. 397)
- Urban Education, PhD: Mathematics Education (p. 464)
- Mathematics Teacher Leadership, Graduate Certificate (p. 442)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 380)

## Reading Education (p. 378)

- Curriculum and Instruction, MS: Reading Education (p. 398)
- Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate (p. 440)
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## School Psychology (p. 355)

- Educational Psychology, PhD: School Psychology (p. 364)
- Educational Psychology, MS: School Psychology (p. 363)
- School Psychology, EdS (p. 375)
- Children's Mental Health for School Professionals, Graduate Certificate (p. 356)

## Science Education (p. 378)

- Education, BS: Science Education, Grades 4-12 (p. 416)
- Curriculum and Instruction, MS: Science Education (p. 399)
- Urban Education, PhD: Curriculum and Instruction (p. 455)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 380)

## Social Studies Education (p. 378)

- Education, BS: Social Studies Education (p. 419)
- Curriculum and Instruction, MS: Urban Social Studies (p. 400)
- Urban Education, PhD: Curriculum and Instruction (p. 455)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 380)
- Global Educator, Undergraduate Certificate (p. 440)

## Second Language Education (p. 378)

- Education, BS: World Language Education (p. 421)
- Education, BS: English as a Second Language Education (p. 409)
- Bilingual Education (Supplemental), Minor (p. 389)
- English as a Second Language Education, Minor (p. 427)
- World Language Education, Minor (p. 444)
- Curriculum and Instruction, MS (p. 390)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 380)

## Special Education (p. 378)

- Education, BS: Inclusive Early Childhood Teacher Education (p. 412)
- Exceptional Education, BS: Early Childhood (p. 431)
- Exceptional Education, BS: K4-12 Special Education (p. 433)
- Exceptional Education, BS: Early Adolescence - Adolescence (p. 428)
- Exceptional Education, MS (p. 437)
- Urban Education, PhD: Exceptional Education (p. 461)
- Advanced Study in Teaching and Learning, Graduate Certificate (p. 380)
- Applied Behavior Analysis (Online), Graduate Certificate (p. 383)
- Autism Spectrum Disorders, Graduate Certificate (p. 387)
- Autism Spectrum Disorders, Undergraduate Certificate (p. 388)
- Assistive Technology and Accessible Design, Graduate Certificate (School of Education, Department of Teaching and Learning) (p. 385)
- Transition for Students with Disabilities, Graduate Certificate (p. 443)

## Urban Education (p. 447)

- Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL) (p. 449)
- Urban Education, PhD: Art Education (p. 452)
- Urban Education, PhD: Curriculum and Instruction (p. 455)
- Urban Education, PhD: Educational Administration (p. 458)
- Urban Education, PhD: Exceptional Education (p. 461)
- Urban Education, PhD: Mathematics Education (p. 464)
- Urban Education, PhD: Multicultural Studies (p. 467)
- Urban Education, PhD: Social Foundations of Education (p. 470)

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through

informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### *How to Prepare for an Advising Meeting*

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### *Scheduling an Appointment*

Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
[soeinfo@uwm.edu](mailto:soeinfo@uwm.edu)

### **Graduate Advising**

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## **Graduate Policies and Regulations**

The Graduate School policies and regulations can be found at Graduate School Policies (p. 31). Please refer to the specific program for program policies and regulations.

## **Undergraduate Policies and Regulations**

### **Academic Regulations**

For information on academic actions for unsatisfactory grades, see Academic Policies (p. 22), University-Wide Academic Action Policy.

### **Admission to Program (Advance to Major)**

Students in most programs must apply for admission to the School of Education. Students who apply to the School of Education must meet the minimum admission requirements of the School and of their program that exist at the time of their admission application.

### **Application Submission and Review**

Application periods for admission vary by program. Contact the Office of Student Services each semester for details.

All applications are reviewed by faculty of the appropriate department. If admission is deferred or denied, the student may consult with the appropriate department chairperson and/or request a hearing under appeals procedures. The School of Education reserves the right to limit admission due to staffing and space limitations. Enrollment as a pre-education student and/or meeting the minimum requirements does not guarantee admission to a professional education major in the School of Education.

A student who transfers from one program to another within the School must re-apply and meet requirements in effect for that program at the time of transfer.

### ***Re-entering Students***

Students who do not maintain continuous enrollment/registration at the university should meet with their advisor upon re-entry. It is possible that the program requirements were revised in their absence.

If a student is out for more than one full semester (not including Summer Session), the student must meet the program and graduation requirements in effect at the time of their return. Options will be discussed on a case-by-case basis.

An admitted student who has not been enrolled for two or more semesters may be required to re-apply for admission. Students admitted into the post-baccalaureate program have five years from the semester of admission to complete their program.

### ***Post-Baccalaureate Certification Program***

For specific admission and program information, contact the Office of Student Services. Additional criteria may be required for some programs.

Students interested in a post-baccalaureate certification program in Curriculum and Instruction will be denied admission if they have a grade of C- or below in any prior student teaching experience, or if they have been previously counseled out of student teaching and/or have graduated without certification from a teacher education program because of poor performance in student teaching.

### ***Advisement Report***

Students who have been admitted to a major will have an Advisement Report indicating course requirements completed as well as those needed. The Advisement Report assists students in planning future semesters, and is one of the documents used in clearing Education students for graduation. Community Engagement and Education students contact the Department of Educational Policy and Community Studies for their summaries and graduation clearance.

### ***Substitution for Requirements***

Any variations from the approved curriculum in the student's program must be approved in writing by the student's faculty advisor, department chair, and the Associate Dean for Academic Affairs. This must be done in advance of course selection.

### ***Degree Requirements***

1. Satisfactory completion of a minimum of 120 credits, depending on program and the requirements of the student's curriculum.
2. Satisfactory completion of the School of Education core curriculum requirements and the University's General Education Requirements. See individual department and program general education core curriculum requirements for the credits required and the distribution.
3. For professional education certification programs, a minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as any grades earned in student teaching or field experiences. General education coursework and/or electives that do not fulfill requirements towards certification will not be included in the cumulative GPA calculation.
4. Completion of the last year of work (30 credits) in residence at UW-Milwaukee. Special permission to earn credits on another campus of the UW System, at another institution, or through correspondence work from the UW Extension must be obtained in advance. Students

should meet with their academic advisor. Students who transfer to UWM from any accredited institution must take a minimum of 18 hours of graded credits at UWM to establish a GPA for graduation.

### ***Change in Requirements***

When a change in program or graduation requirements is adopted, students currently enrolled may complete either the new requirements or those in effect at the time of their admission to the School of Education, but not a combination. Changes in state requirements for teacher certification may lead to changes in requirements in a student's program. Satisfaction of state requirements is necessary for eligibility for teacher certification.

### ***Semester Course Load***

An overload for undergraduate and special students in the School of Education is 18 or more credit hours during a regular semester. Students who want to take an overload during a regular semester should contact their academic advisor.

Any student in the School of Education who takes an unapproved overload will not be permitted to count the overload credits toward graduation and/or certification. The particular credits that would not be counted toward graduation will be designated by the student's advisor and approved by the Associate Dean for Academic Affairs.

### ***Field Experience***

Students are required to complete a full-day/full-semester student teaching experience during the final year in the teacher education program. However, many programs require more than one semester of student teaching. For information, please call (414) 229-4352.

### ***Employment, Licensing, or Professional Organization Requirements***

Applicants to School of Education programs that involve student teaching, practicum, internship, or other field placements must complete an information disclosure statement and be subject to a criminal background check to comply with placement site requirements and state regulations. Criminal background checks are required by state law to help employers and government officials in making employment and licensing decisions. The Wisconsin Department of Public Instruction (DPI) conducts a check as part of licensing. Agencies regulated by the Division of Health and Family Services must have on file a criminal background check for persons who have access to clients within caregiving organizations, including students.

Students in a program with a clinical experience must undergo a criminal background check at the time of admission to the School of Education, or prior to placement in a major clinical experience if that occurs earlier. The student will be charged the cost of the background check administered through School of Education procedures. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Contact the Office of Clinical Experiences for further details.

### ***Teacher License Applications***

Wisconsin Department of Public Instruction (DPI) License Application Forms and information about applying for a teaching license may be obtained from the Office of Clinical Experiences, Enderis Hall, Room 369, or by calling (414) 229-6033.

A departmental recommendation for certification is required. This recommendation is not automatic upon graduation or completion of a post-baccalaureate certification program.

The DPI conducts a criminal background check of each applicant for a teaching license. If you have ever lived, worked, or attended school outside of Wisconsin since the age of 18, you are also required to complete fingerprint cards as part of your criminal background check. Based on this information, an applicant may be denied a license even if recommended for certification by the University.

## Special Opportunities

### Departmental Examinations

Departments may grant degree credit to a student who, instead of taking a course, requests and passes an examination administered by the department on the content of that course.

Permission to take such examinations must be obtained from the Associate Dean for Academic Affairs, Enderis Hall 583, who will require a recommendation from the department chairperson or program director to whom evidence of work justifying an examination must be presented by the student.

### Study Abroad

Qualified students can complete equivalent coursework in another country. For information, consult the Office of Student Services, Enderis Hall 209.

## Administration

### Tina Freiburger

Dean, College of Community Engagement and Professions

### Hope Longwell-Grice

Senior Associate Dean, Academic Affairs, School of Education

### Jeremy Page

Assistant Dean, Office of Student Services, School of Education

## Contact Information

### Office of Student Services

Enderis Hall, 209

<http://uwm.edu/education/>

## Administrative Leadership

The Department of Administrative Leadership develops the education field's next generation of change-makers. As an educational leader, you'll have the vital skills needed to nurture leadership among others in a wide range of elementary, secondary, and post-secondary programs, as well as in business and industry.

We have two areas of study at the master's level: Adult, Continuing, and Higher Education Administration, which focuses on post-secondary

adult and continuing education leadership and administration at higher education organizations; and Educational Administration, which focuses on elementary and secondary educational administration.

The Adult, Continuing, and Higher Education Administration master's concentration prepares students to advance their administrative leadership skills, improve instructional design of professional development, or succeed in a variety of roles in colleges and universities. A major focus of our program is preparing leaders for urban higher education institutions who honor diversity and difference among people, groups and societies.

Our rigorous Educational Administration program, led by faculty who are actively engaged in research in the field, meets Wisconsin state licensure requirements and will give you the skills you need to succeed in today's challenging educational landscape.

At the doctoral level, the primary mission of the concentration in Adult, Continuing, and Higher Education Leadership (ACHEL) within the Urban Education PhD program is to prepare individuals for leadership positions in urban adult, continuing, and higher educational organizations. The specialization will assist students to examine changing perspectives on urban post-secondary, adult and continuing educational organizations; changing notions of urban adult, continuing, and higher education teaching and learning; and the changing roles of the students, teachers, researchers, and administrators who work and study within urban adult, continuing, and higher education organizations.

The Department of Administrative Leadership is committed to developing educational leaders, particularly for service in metropolitan areas. We believe that excellent educational leaders nurture leadership among others in the school community; create positive work environments for students, staff and parents; and contribute to the improvement of teaching and learning.

## Programs

- Administrative Leadership Specialist, Graduate Certificate (p. 325)
- Administrative Leadership, MS: Adult, Continuing, and Higher Education Administration (p. 326)
- Administrative Leadership, MS: Educational Administration and Supervision (p. 327)
- Educational Studies, BS (p. 328)
- Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership) (p. 329)
- Student Success Advising and Technology-Based Services in Higher Education, Graduate Certificate (p. 330)
- Teaching and Learning in Higher Education, Graduate Certificate (p. 331)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Cheryl Baldwin	Associate Professor	PhD	University of Illinois at Urbana	✓	
Delbert K. Clear	Associate Professor				✓
Carol Colbeck	Professor	PhD	Stanford University		✓
Simone Conceição	Professor	PhD	University of Wisconsin-Madison		✓
Barbara Daley	Professor	PhD	Cornell University		✓
James Fisher	Associate Professor	PhD			✓

Elise Frattura	Professor	EdD	University of Wisconsin-Milwaukee	
William Kritek	Professor	PhD		✓
Larry G. Martin	Professor	PhD	University of Wisconsin-Madison	✓
Liliana Mina	Clinical Associate Professor	PhD	Michigan State University	✓
Dante Salto	Assistant Professor	PhD	State University of New York-Albany	✓
Marie Sandy	Associate Professor	PhD	Claremont Graduate University	✓
Gail Schneider	Professor	PhD	University of Wisconsin-Madison	✓
Alan Shoho	Professor	EdD	Arizona State University	✓
Alfonzo Thurman	Professor	PhD	University of Wisconsin – Madison	✓
Leigh Wallace	Clinical Associate Professor	PhD	University of Wisconsin-Milwaukee	✓

## Administrative Leadership Specialist, Graduate Certificate

*Effective Fall 2023, the Administrative Leadership Specialist Graduate Certificate has suspended admission.*

A master's degree is the minimum prerequisite for admission to the Specialist Certificate. The Certificate offers a career emphasis in the superintendency and licensure as a school district superintendent.

Our rigorous program, led by faculty who are actively engaged in research in the field, meets Wisconsin state licensure requirements and will give you the skills you need to succeed in today's challenging educational landscape.

The Department of Administrative Leadership is committed to developing educational leaders, particularly for service in metropolitan areas. We believe that excellent educational leaders nurture leadership among others in the school community; create positive work environments for students, staff and parents; contribute to the improvement of teaching and learning; and engage in practices that ensure equity and access for all students.

### Admission Requirements

*Effective Fall 2023, the Administrative Leadership Specialist Graduate Certificate has suspended admission.*

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.

- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

#### Admission

Applicants must meet these departmental requirements:

- Completion of a master's degree with a graduate grade point average of 3.5 or above (4.0 scale). The master's degree may be in any field.
- Written statement of professional objectives and educational experience.
- Applicants not meeting the grade point minimum may be admitted upon submission of additional data to be specified by the Department chair.

### Credits and Courses

Credit and course requirements depend upon the applicant's degree field. For an applicant with a master's degree in educational administration, the minimum credit requirement is 21 graduate credits, normally distributed as follows: 18 credits in administrative leadership, and 3 credits in a field-based practicum. As a capstone requirement, students must develop and submit a comprehensive portfolio which includes an action research project for review by faculty. The student must pass both the written part of the portfolio and the oral portfolio defense. For an applicant with a master's degree in a field other than educational administration, the minimum credit requirement is 24 graduate credits. Additional coursework may be required for administrative certification.

### Additional Requirements

#### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

#### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

#### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not

contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)

- Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
  3. A course may count toward no more than one certificate and one degree.
  4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Administrative Leadership, MS: Adult, Continuing, and Higher Education Administration

The master's concentration in adult, continuing, and higher education administration prepares the student for positions of administration and leadership in business, community, and higher education environments. These environments can allow the student obtain careers as adult educators, trainers, human resource directors and administrators in vocational and technical education, university extension, continuing professional education; student advisors, managers of support programs for traditionally underrepresented students, student housing specialists, student programming specialists, business managers, and administrative positions at all levels of postsecondary education.

Students in the master's degree with the concentration in adult, continuing, and higher education administration can jointly earn a certification in Teaching and Learning in Higher Education or a certificate in Support Services for Online Students in Higher Education. In this case, the student must complete an application (including the application fee) for both programs (master's program and certificate program).

The master's degree programs are offered online and hybrid.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) to be considered for admission to the

program. Applicants must also complete the reason statement in the application.

## Credits and Courses

Minimum degree requirement is 33 graduate credits, 24 of which must be in education and up to 9 of which may be in related fields. Credit distribution must be:

Code	Title	Credits
	ACHEA Specialty Area	18
	Related Electives	15
	<b>Total Credits</b>	<b>33</b>

The student must plan an individual program of studies in consultation with the faculty advisor.

## Required Core Courses

Code	Title	Credits
<i>Specialty Area: Adult and Continuing Education</i>		
AD LDSP 667	Program Planning in Adult Education	3
AD LDSP 707	Using Technology With Adult Learners	3
AD LDSP 757	Principles and Foundations of Adult Education	3
AD LDSP 777	Leadership in Multicultural Organizations	3
AD LDSP 787	Administration of Adult Education Programs	3
AD LDSP 886	Developing Your ePortfolio in ACHEA (Capstone Course)	3
<i>Specialty Area: Higher Education Administration</i>		
AD LDSP 709	Introduction to Higher Education Administration	3
AD LDSP 711	Organization and Governance in Higher Education Administration	3
AD LDSP 747	Strategic Planning and Budgeting in Adult, Continuing, and Higher Education	3
AD LDSP 778	Introduction to College Student Personnel Administration	3
AD LDSP 797	The Student in the Collegiate Context	3
AD LDSP 886	Developing Your ePortfolio in ACHEA (Capstone Course)	3

## Elective Courses

Code	Title	Credits
AD LDSP 507	Introduction to Group Leadership	3
AD LDSP 605	Survey of Human Resource Development	3
AD LDSP 607	Coordination of Staff Development and Training Program	3
AD LDSP 617	Leadership in Youth-Serving Organizations	3
AD LDSP 630	Field Work in Schools, Agencies and Institutions	2-6
AD LDSP 647	Evaluation of Adult, Continuing, and Higher Education Programs	3
AD LDSP 687	Instructional Design and Teaching Strategies	3

AD LDSP 703	Resources for Self-directed Learning	1
AD LDSP 704	Technologies for Online Student Support	1
AD LDSP 706	Professional Development for Online Instruction	1
AD LDSP 708	Online Support Services in Adult, Continuing, and Higher Education	3
AD LDSP 710	Organizational Change and Team Leadership	3
AD LDSP 737	Distance Education for Adults	3
AD LDSP 740	Seminar in Innovative Technologies for Learning in Education	3
AD LDSP 750	Internship in Administrative Leadership	1-6
AD LDSP 795	Women and Leadership in Education	3
AD LDSP 827	Seminar in Adult and Organizational Learning	3
AD LDSP 900	Role of the Professoriate	3
AD LDSP 967	Seminar in Urban Adult, Continuing, and Higher Education	3
AD LDSP 978	Seminar in Student Personnel Administration	3

fulfill professional education requirements for administrative and supervisory licenses in Wisconsin and most other states.

Our rigorous program, led by faculty who are actively engaged in research in the field, meets Wisconsin state licensure requirements and will give you the skills you need to succeed in today's challenging educational landscape.

The master's degree programs are offered online and hybrid.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) to be considered for admission to the program. Applicants must also complete the reason statement in the application.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the program of studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

### Thesis or Master's Paper

Optional. See Credits and Courses above.

### Final Portfolio

As a capstone requirement, students who begin the program Fall 2011 and thereafter must develop and submit a comprehensive portfolio for review by faculty. The student must pass both the written part of the portfolio and the oral portfolio defense.

### Comprehensive Examination

Students who began the program before Fall 2011 have the option of passing a written and/or oral final comprehensive examination as the capstone requirement.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Administrative Leadership, MS: Educational Administration and Supervision

The master's concentration in educational administration and supervision prepares the student for a career as a school district administrator, elementary, middle, or secondary school administrator, director of special education and pupil services, school business manager, or curriculum director. Through this program of studies, the student can

## Credits and Courses

Minimum degree requirement is 33 graduate credits, 27 of which must be in education and 6 of which may be in related fields. Credit distribution must be: 18-24 credits in educational administration and supervision; 9-15 credits in related electives; and a master's capstone portfolio.

The student plans an individual program of studies in consultation with a major professor. If the student intends to apply for the Specialist Certificate upon completion of the master's degree, the program of studies may satisfy Specialist Certificate admission requirements.

### Required Core Courses

Code	Title	Credits
<b>Administrative Leadership</b>		
AD LDSP 702	Leadership in Educational Organizations	3
AD LDSP 710	Organizational Change and Team Leadership	3
AD LDSP 712	Instructional Leadership	3
AD LDSP 732	The Politics of Education	3
AD LDSP 752	School Law	3
AD LDSP 762	Management of Educational Resources	3
AD LDSP 861	Foundations in Systems of Educational Equity	3

**Total Credits 21**

Code	Title	Credits
<b>Courses Related to Specific Administrative Licenses</b>		
AD LDSP 750	Internship in Administrative Leadership	1-6
AD LDSP 780	Internship in Student Service Administration	3
AD LDSP 790	Internship in Instructional Leadership	3
AD LDSP 792	Principalship Field Practicum	3
AD LDSP 800	Administration of the School Plant	2-3

AD LDSP 805	Legislative and Legal Aspects of Special Education	3	Select 24 credits in coursework that develops knowledge of social/cultural perspectives, human development and learning, program development, and communication skills/group processes <sup>3</sup>	24
AD LDSP 812	Educational Personnel Administration and Supervision	3		
AD LDSP 842	Program Planning and Evaluation in Education	3		
AD LDSP 862	School Finance	3		
AD LDSP 961	Analysis and Design of Special Education and Student Services	3		
Choose one:		3		
CURRINS 715	Guiding Instructional Improvement (preferred course)			
CURRINS 701	Curriculum Planning and Ideologies			
			<b>Advanced-Level Coursework Outside the School of Education</b>	
			Select a minimum of 12 credits numbered 300 or above	12
			<b>General University Electives</b>	
			Select general university electives	
			<b>Educational Studies Second Degree Requirements</b>	
			See requirements below	42
			<b>Total Credits</b>	<b>99-102</b>

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the program of studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

### Final Portfolio

As a capstone requirement, students must develop and submit a comprehensive portfolio for review by faculty. The student must pass both the written part of the portfolio and the oral portfolio defense.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Educational Studies, BS

*As of Fall 2017, the Educational Studies program has suspended admission. This means that unless you have been accepted into this program prior to Fall 2017, you will not be able to earn the degree. The following information is provided solely for the benefit of students accepted into the Educational Studies program prior to Fall 2017.*

## Requirements

A minimum of 128 credits is needed for graduation. Students must satisfy all UWM, School of Education, and Educational Studies program requirements, and have satisfactorily completed the following minimum requirements:

Code	Title	Credits
<b>General Education Requirements (GER)</b>		
Complete General Education Requirements (GER) <sup>1</sup>		
<b>Educational Studies Major<sup>2</sup></b>		
<i>Focus Area</i>		
	Select a minimum of 18 credits in the chosen area of concentration (i.e., adult education, youth leadership, or training and workforce development)	18
<i>Fieldwork</i>		
	Select practical experience applying the student's professional skills in an appropriate work setting	3-6
<i>Common Learning Component</i>		

<sup>1</sup> Students not enrolled in a degree program in an accredited institution prior to September 1986 must also meet the University's General Education Requirements (GER).

<sup>2</sup> Educational Studies Major. The Educational Studies Major is a means of developing professional skills. It requires completing at least 42 credits, 34 of them in the School of Education, with a 2.75 grade point average overall. The major contains three components:

- Focus Area
- Fieldwork
- Common Learning Component

<sup>3</sup> Contact the Office of Student Services for a list of acceptable course titles.

### Educational Studies Second Degree Requirements

1. Complete 42 credits.
  - At least 30 of the program credits must be earned in residence at the University of Wisconsin-Milwaukee and following admission to the Educational Studies Program. The remaining 12 credits may be transferred from previous institutions/programs or earned inclusively within the Educational Studies program.
  - At least 20 of the 42 credits must be earned in upper-division courses (300 level or above). The common learning components allow for accommodation of this requirement.
2. Earn at least 18 credits in selected focus areas. Select from: adult education, youth leadership, and training and workforce development.
  - Earn 3 credits in fieldwork within the selected focus area. The fieldwork placement will be determined by the faculty advisor and academic advisor.
  - Earn 24 credits in the common learning components. These credits will be selected in consultation with the faculty advisor: social cultural perspectives, human development and learning, program development, and communication skills and group processes.
3. Achieve a 2.75 GPA on all focus area and common learning components credits.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.



## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Health Professional Education, Graduate Certificate (School of Education, Department of Administrative Leadership)

The Health Professional Education certificate is designed to provide health professionals with additional preparation in educational principles and theory to support them in their roles as educators of students and staff in the health professions as well as in the role of patient educator. This program is open to students simultaneously enrolled in a graduate degree program, as well as to health professionals who have completed a baccalaureate, master's, or doctoral degree. The certificate program is a collaborative program between the College of Health Professions and Sciences and Schools of Nursing and Education, and is coordinated through the School of Nursing.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.

- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Admission

Applicants are admitted to the certificate program in one of three categories: post-baccalaureate, current student in a UWM graduate health profession program, or post-graduate student.

1. Post-baccalaureate students must have completed a bachelor's degree in a health profession discipline with a grade point average of 2.75 or above (4.0 scale) and not be currently enrolled in a graduate degree program at UWM.
2. The admission requirements of the health professional educational certificate for students enrolled in good standing in a UWM graduate health profession program are consistent with those requirements specified by the program.
3. Post-graduate students must have completed a graduate degree in a health profession or related discipline with a grade point average of 3.0 or above (4.0 scale).

## Credits and Courses

The completion of 15 credit hours (5 courses) is required for the certificate program.

Code	Title	Credits
<b>Core</b>		
AD LDSP 757	Principles and Foundations of Adult Education	3
NURS 731	Practicum and Seminar in Health Professional Education	3
<b>Curriculum/Program Planning &amp; Evaluation Courses</b>		
Select one of the following:		3
AD LDSP 667	Program Planning in Adult Education	
AD LDSP 607	Coordination of Staff Development and Training Program	
AD LDSP 647	Evaluation of Adult, Continuing, and Higher Education Programs	
NURS 752	Curriculum Development in Nursing Education	
<b>Teaching/Instructional Strategies</b>		
Select one of the following:		3
AD LDSP 687	Instructional Design and Teaching Strategies	
AD LDSP 707	Using Technology With Adult Learners	
AD LDSP 827	Seminar in Adult and Organizational Learning	
NURS 705	Instructional Strategies for Patient Education	
<b>Elective Courses</b>		
Select one additional course from the above or from the following:		3
AD LDSP 867	Seminar in Continuing Education in the Professions	
AD LDSP 787	Administration of Adult Education Programs	

AD LDSP 547	The Educational Dimensions of Practice with Older Adults
NURS 764	Changing Health Behaviors
CURRINS 774	College Teaching
NURS 751	Teaching in Practice Disciplines
<b>Total Credits</b>	<b>15</b>

A current listing of courses that meet these requirements can be obtained from the College of Health Professions and Sciences or the School of Nursing. Students will need to maintain a 3.0 GPA and meet all other requirements of the Graduate School for continuation in the program. The Practicum and Seminar in Health Professional Education is the last course taken in the certificate program.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Student Success Advising and Technology-Based Services in Higher Education, Graduate Certificate

This graduate certificate program offers a unique opportunity for professionals interested in online student support in higher education. Prospective professionals venturing into today's higher education environment would benefit from an understanding of teaching and learning and student support service theory, research, and effective practice. Successful professionals require many tools to educate, motivate, and support online students, as well as the wisdom to know when and how to apply those tools. This wisdom comes from a critical, reflective understanding of the research and theory behind teaching, learning, and student support. The 15-credit certificate program draws upon current coursework in Adult Education, Higher Education, Education Technology, and Distance Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants must have completed a bachelor's degree prior to admission, and must have a minimum 2.75 cumulative undergraduate grade point average. Applicants must also complete the reason statement in the application.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
<b>Core (select from the following):</b>		<b>6</b>
AD LDSP 691G	Leadership Ethics in Multicultural Organizations	
AD LDSP 693G	Decision Making in Multicultural Organizations	
AD LDSP 703	Resources for Self-directed Learning	
AD LDSP 704	Technologies for Online Student Support	

AD LDSP 708	Online Support Services in Adult, Continuing, and Higher Education	
AD LDSP 709	Introduction to Higher Education Administration	
AD LDSP 799	Independent Reading	
<b>Electives (select from the following):</b>		<b>6</b>
AD LDSP 757	Principles and Foundations of Adult Education	
AD LDSP 777	Leadership in Multicultural Organizations	
AD LDSP 778	Introduction to College Student Personnel Administration	
ED PSY 640	Human Development: Theory and Research	
INFOST 521	Introduction to Reference Services and Resources	
INFOST 734	Library Services and Resources for Adults	
<b>Practicum<sup>1,2</sup></b>		<b>3</b>
AD LDSP 750	Internship in Administrative Leadership	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> NOTE: These credits should not be taken before completion of at least 9 credits of coursework.

<sup>2</sup> This practicum would require students to complete an internship (a total of 150 hours) by enrolling in AD LDSP 750.

Descriptions of required and elective courses offered at UWM as part of the Certificate in Student Success Advising and Technology-Based Services in Higher Education can be found under the respective curricular areas (see below).

- Administrative Leadership (Ad Ldsp)
- Educational Psychology (Ed Psy)
- Information Studies (Info St)

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the five courses that constitute the certificate. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not

contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)

- Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
  3. A course may count toward no more than one certificate and one degree.
  4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Teaching and Learning in Higher Education, Graduate Certificate

This graduate certificate program offers a unique opportunity for students interested in teaching in higher education to gain knowledge about teaching and learning, both generally and within their discipline. Prospective teachers venturing into today's higher education environment would benefit from an understanding of teaching and learning theory, research, and effective practice. Successful instructors require many tools to teach, as well as the wisdom to know when and how to apply those tools. This wisdom comes from a critical, reflective understanding of the research and theory behind teaching and learning. The 15-credit certificate program is multi-disciplinary, drawing upon current coursework in Communication, the School of Education, and other disciplines that have teaching and learning courses in place.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants must have completed a bachelor's degree prior to admission, and must have a minimum 2.75 cumulative undergraduate grade point average. Applicants with a graduate degree must have a minimum 3.00 graduate grade point average. Applicants must also complete the reason statement in the application.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.

- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
<b>Core</b>		
Select two of the following: <sup>1</sup>		6
AD LDSP 757	Principles and Foundations of Adult Education	
AD LDSP 687	Instructional Design and Teaching Strategies	
AD LDSP 900	Role of the Professoriate	
CURRINS 774	College Teaching	
<b>Practicum</b>		
AD LDSP 750	Internship in Administrative Leadership <sup>2</sup>	3
	or COMMUN 998	Communication Internship
<b>Electives</b>		
Select 6 credits from Teaching and Learning (General) and/or Teaching and Learning (Discipline Specific)		6
<i>Teaching and Learning (General)</i>		
AD LDSP 587	Serving Multicultural and Special Needs Learners	
AD LDSP 707	Using Technology With Adult Learners	
AD LDSP 737	Distance Education for Adults	
AD LDSP 827	Seminar in Adult and Organizational Learning	
COMMUN 837	Instructional Communication in the College Classroom	
ED PSY 631	Cognition: Learning, Problem Solving and Thinking	
Any core course not taken as a required core course		
<i>Teaching and Learning (Discipline Specific)</i>		
Examples of such courses include: <sup>1</sup>		
ENGLISH 701	Writing Pedagogies	
ENGLISH 706	Seminar in Professional Writing Theory and Pedagogy	
MALLT 700	Language Teaching Methods	
NURS 705	Instructional Strategies for Patient Education	
HIST 716	Professional and Pedagogical Issues in History	
BMS/HCA 909	Guided Teaching Experience in Health Sciences	
OCCTHPY 900	Teaching, Learning and Educational Leadership in the Health Sciences	

PHYSICS 610	The Art and Science of Teaching Physics
NURS 752	Curriculum Development in Nursing Education
NURS 751	Teaching in Practice Disciplines
NURS 731	Practicum and Seminar in Health Professional Education
<b>Total Credits</b>	
<b>15</b>	

- <sup>1</sup> Students can count discipline-specific teaching and learning courses from their own department as electives or as one of their core courses (3 credits) with the permission of the Certificate Coordinator.
- <sup>2</sup> These credits should not be taken before completion of at least 9 credits of coursework.

Successful completion of this certificate is NOT a teaching license or credential for K-12 instruction.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the five courses that constitute the certificate. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.

- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## American Sign Language Studies, Minor

The American Sign Language (ASL) Studies minor area addresses the needs of students who are already pursuing a major in another area of study, but want to supplement their studies with knowledge and skill in ASL. This will allow students to be able to communicate with Deaf persons they may meet in their professions.

### Requirements

Students must have a minimum grade of C or better in all ASL minor coursework.

Code	Title	Credits
EXCEDUC 301	American Sign Language I	3
EXCEDUC 302	American Sign Language II	3
EXCEDUC 303	American Sign Language III	3
EXCEDUC 304	American Sign Language IV	3
EXCEDUC 330	Deaf History	3
EXCEDUC 352	American Deaf Culture	3
EXCEDUC 500	Fingerspelling & Numbers	3
<b>Total Credits</b>		<b>21</b>

## Education, BS: American Sign Language Studies

The American Sign Language Studies Program offers an array of courses to prepare students to work with the Deaf community. Students completing this program will have a deeper understanding of American Sign Language (ASL), Linguistics, Deaf History, Deaf Literature and Deaf Culture with an emphasis on the rich language and cultural diversity of the Deaf community as well as the social justice issues impacting their lives.

Several objectives will be covered during the program, such as Deaf culture, Deaf folklore, and Deaf literature, and the relationship between the signing community and the non-signing community. This program also covers linguistic components with several course offerings in ASL as well as specialized skill areas of ASL, such as a focus on grammatical structure and an overview of linguistic components.

Professions that find this program an enhancement to their work include (but are not limited to): interpreting, health care, criminal justice, education, exceptional education, psychology, social work and more. Many of the courses offered through this program also satisfy certain GER requirements for the general student population such as foreign language (ASL I-IV) and cultural diversity (Deaf Culture or Deaf History). All students start with ASL I however if a student has previous experience with the language, they may be placed into higher classes by taking the American Sign Language Proficiency Interview (ASLPI) and may be eligible for retroactive credits if they meet all requirements.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Admission Requirements (p. 334)

#### Program Core

Code	Title	Credits
<i>One of the following courses, fulfilled prior to program admission</i>		<b>3</b>
COMMUN 101	Introduction to Interpersonal Communication (GER-SS)	
COMMUN 103	Public Speaking (GER-HU)	
EXCEDUC 301	American Sign Language I	3
EXCEDUC 302	American Sign Language II	3
EXCEDUC 303	American Sign Language III	3
EXCEDUC 304	American Sign Language IV	3
EXCEDUC 305	American Sign Language V	3
EXCEDUC 306	American Sign Language VI	3
EXCEDUC 325	ASL V Lab	1
EXCEDUC 326	ASL VI Lab	1
EXCEDUC 327	Classifiers Lab	1
EXCEDUC 328	Skills Development: ASL Depiction	1
EXCEDUC 330	Deaf History (GER-SS)	3
EXCEDUC 352	American Deaf Culture (GER-SS)	3
EXCEDUC 358	ASL/English Linguistics I	3
EXCEDUC 363	ASL/English Linguistics II	3
EXCEDUC 500	Fingerspelling & Numbers	3
EXCEDUC 510	Classifiers	3
EXCEDUC 520	ASL Literature	3
<i>Select one of the following:</i>		<b>3</b>
EXCEDUC 348	Introduction to the Profession of Interpreting	
EXCEDUC 655	Introduction to Education of Individuals Who are Deaf and Hard of Hearing	
CURRINS 300	Introduction to Teaching: Colloquium and Fieldwork	
<i>Courses with GER designation beyond university GER:</i>		
GER-Cultural Diversity		6
GER-Arts		3
<b>Total Credits</b>		<b>58</b>

### Additional Requirements for Graduation

- Minimum grade of C or better in all professional coursework.
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program.
- Completion of a minimum 120 degree credits.

## Advance to Major Program Admission Requirements

- **GER: OWC-A:** Completion of Oral-Written Communication part A competency.
- **GER: QL-A:** Completion of Quantitative Literacy part A competency.
- **Completion of COMMUN 101 or COMMUN 103**, with a grade of C or better.
- **Completion of ASL GER requirements.**
- **Maintain** a cumulative 2.5 GPA.

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### *How to Prepare for an Advising Meeting*

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### *Scheduling an Appointment*

Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
[soeinfo@uwm.edu](mailto:soeinfo@uwm.edu)

### Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Education, BS: Interpreter Training Program

The Interpreter Training Program (ITP) goes beyond teaching students about language, culture, and how to facilitate conversations. Our program philosophy of service takes hold the moment you begin. We work to develop well-rounded interpreters who value and consider others' perspectives; students who are culturally sensitive and empathetic practitioners who continually work to better themselves and the interpreting profession.

We also work hard to ensure that graduates reach their career goals, and we pride ourselves on the success our former students have achieved through their work in our community. In a recent survey of the past five graduating classes, 80% of ITP graduates were working as interpreters and 76% reported finding work within three months of graduation. In general, the interpreting and translation field is growing much faster than other occupations, and ASL interpreters are especially sought-after.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Core

American Sign Language I-VI courses in the Department of Exceptional Education satisfy University foreign language requirements. For all programs that require American Sign Language, students with previous experience in American Sign Language can take the American Sign Language Proficiency Interview (ASLPI) to determine appropriate placement level. If a B or better is received on the ASLPI, credit will be received for courses up through ASL 4. Any individual who would like to take the ASLPI will be responsible for the cost of the assessment. Please consult with your advisor for more information.

Code	Title	Credits
<b>Prior to Admission</b>		
EXCEDUC 301	American Sign Language I (With a grade of C or better)	3
EXCEDUC 302	American Sign Language II (With a grade of C or better)	3
EXCEDUC 303	American Sign Language III (With a grade of B- or better)	3
EXCEDUC 304	American Sign Language IV (With a grade of B- or better)	3
EXCEDUC 305	American Sign Language V (With a grade of B- or better)	3
EXCEDUC 306	American Sign Language VI (With a grade of B- or better)	3
EXCEDUC 320	Introduction to Interpreting: English to American Sign Language (With a grade of B- or better)	3
EXCEDUC 321	Introduction to Interpreting: American Sign Language to English (With a grade of B- or better)	3
EXCEDUC 324	ASL IV Lab	1
EXCEDUC 325	ASL V Lab	1
EXCEDUC 326	ASL VI Lab	1
EXCEDUC 327	Classifiers Lab	1
EXCEDUC 348	Introduction to the Profession of Interpreting (With a grade of C or better)	3
EXCEDUC 352	American Deaf Culture (With a grade of C or better; GER-SS)	3
<b>Unsequenced</b>		
THEATRE 111	Theatre Games (GER-A)	3
COMMUN 103	Public Speaking (GER-HU)	3
EXCEDUC 330	Deaf History (GER-SS)	3
<b>Highly recommended:</b>		
Choose one:		3
LINGUIS 100	The Diversity of Human Language (GER-CD, HU)	
LINGUIS 210	Power of Words (GER-CD, HU)	
BMS 205	Introduction to Diagnostic Medicine (GER-NS)	3
<b>Language and Licensure Requirements</b>		
ED PSY 330	Introduction to Learning and Development	3
EXCEDUC 300	The Exceptional Individual	3
EXCEDUC 510 or EXCEDUC 520	Classifiers ASL Literature	3
<b>Total Credits</b>		<b>58</b>

**Admission to Program (p. 335)  
Professional Requirements**

Code	Title	Credits
<b>Sequenced Courses</b>		
Students must have a grade of B- or better for the sequenced courses and a minimum 2.75 GPA in all professional coursework		
<i>Fall I</i>		

EXCEDUC 345	Foundations of English to ASL Interpreting	3
EXCEDUC 347	Foundations of ASL to English Interpreting	3
EXCEDUC 349	Field Work: Interacting in the Deaf Community I	3
EXCEDUC 358	ASL/English Linguistics I	3
<i>Spring I</i>		
EXCEDUC 335	Educational Interpreting I	3
EXCEDUC 336	Postsecondary Interpreting I	3
EXCEDUC 337	Video Relay Services Interpreting I	3
EXCEDUC 354	Field Work: Interacting in the Deaf Community II	3
EXCEDUC 363	ASL/English Linguistics II	3
EXCEDUC 371	Strategies for the National Interpreter Certification Exam	1
<i>Fall II</i>		
EXCEDUC 338	Introduction to Healthcare Interpreting	3
EXCEDUC 359	Fieldwork: Interacting in the Deaf Community III	3
EXCEDUC 365	Educational Interpreting II	3
EXCEDUC 366	Postsecondary Interpreting II	3
EXCEDUC 367	Video Relay Services Interpreting II	3
<i>Spring II</i>		
EXCEDUC 364	Fieldwork: Interacting in the Deaf Community IV (In one semester or split over two semesters)	12
EXCEDUC 368	Medical and Mental Healthcare Interpreting	3
<b>Total Credits</b>		<b>58</b>

**Education Degree, Interpreter Training Program  
Completion Requirements**

- Completion of all admission requirements, granted admission to the ITP, and completion of ITP professional course sequence;
- Completion of university GER requirements;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
- Completion of a minimum 120 credits;
- Professional coursework minimum GPA of 2.75; and
- Successful completion of a proficiency exam - consult with your advisor.

**Interpreter License Requirements**

- Individuals must hold a license from the Department of Public Instruction or the Department of Safety and Professional Services in order to enter the interpreting profession in Wisconsin. Successful completion of proficiency exams is required for these licenses. Consult with your advisor for details.

**Advance to Major  
Program Admission Requirements**

- EXCEDUC 348, Introduction to the Profession of Interpreting, with a grade of C or better;

- EXCEDUC 352, American Deaf Culture, with a grade of C or better;
- EXCEDUC 301, EXCEDUC 302, EXCEDUC 303, EXCEDUC 304, EXCEDUC 305 and EXCEDUC 306, American Sign Language I-VI. ASL I-II with a grade of C or better; ASL III-VI with a grade of B- or better;
- EXCEDUC 320, Intro to Interpreting Skills: English to American Sign Language with a grade of B- or better;
- EXCEDUC 321, Intro to Interpreting Skills: American Sign Language to English with a grade of B- or better;
- 58 credits complete;
- Cumulative GPA of 2.5; and
- Completion of Screening Interview, which occurs after application is submitted.

## Undergraduate Advising

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### *How to Prepare for an Advising Meeting*

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- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### *Scheduling an Appointment*

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## Graduate Advising

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## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Educational Policy and Community Studies

The Department of Educational Policy and Community Studies at UWM provides students with a deeper understanding of education and community contexts in urban areas. Our degree programs help those working in schools and the community address the social and political contexts of their jobs and provide a range of skills for better addressing challenges. The department offers:

- A Bachelor of Science in Community Engagement and Education (CEED),
- An MS in Cultural Foundations of Community Engagement and Education, and
- A PhD specialization in Social Foundations of Education in the Urban Education Doctoral Program.

Students often develop their own creative programs out of our range of course options, while others focus their coursework in one of the following areas:

- Alternative Education/Students Placed At Risk
- Child Care (Educator or Administrator Track)
- Community Engagement and Social Change
- Policy and Leadership in Community-Based Organizations
- Race Relations
- Urban Education
- Youth Work

## Program Highlights

- Available fully online or face-to-face, or in combination
- Courses offered in the evening, daytime, weekend, hybrid, and starting mid-semester
- BS in Community Engagement and Education:
  - Students can earn up to 42 lower-division credits for prior professional educational experience,
  - 90-credit major (120 credits in the degree), and



- Accepts many courses from associate's degree that might not otherwise transfer, as well as transcribed military credits and others
- MS in Cultural Foundations of Community Engagement and Education:
  - 30-credit MS program, and
  - MS students can transfer in up to 6 graduate credits from regionally accredited institutions

## Careers

Students and graduates from our programs are employed by schools, community-based organizations, charities, hospitals, and local government units in metropolitan Milwaukee and beyond. Graduates will encounter many alumni across Wisconsin who recognize and value the knowledge gained by students in the program. The Department does not offer licensure for teaching in K-12 public schools, but many graduates either seek post-baccalaureate certification or teach in private schools.

For more information about careers, go to the BS (<https://uwm.edu/education/academics/community-engagement-edu/>) and MS (<https://uwm.edu/education/academics/cultural-foundations-edu/>) program webpages, and click on the "Careers" tab for a list of actual jobs held by graduates, or click on the "Alumni" tab for stories and videos about our graduates' experiences in the program and after graduation.

## Specifics About the Different Degree Programs

In the CEED BS program, students can select one of three optional submajors: Child Care, Community-Based Organizations Policy and Leadership, or Child and Family Services. Students may also pursue certificates in Community Engagement Strategies, Community-Based Organizations & Leadership, and Youth Work. Visit the CEED BS program website (<https://uwm.edu/education/academics/community-engagement-edu/>) for additional information.

The department's MS program in Cultural Foundations of Community Engagement and Education engages students in sociological, historical, philosophical and other frames of reference for understanding urban community and school challenges. Students often select courses that focus their studies in a particular area, and many of the same focus areas

that are available in the CEED BS program can be pursued at a more advanced level in our MS program. Licensed teachers may seek an add-on state DPI certification in Alternative Education. Visit the master's degree program website (<https://uwm.edu/education/academics/cultural-foundations-edu/>) for additional information.

## A Highly Diverse Student Body

Students in the department come from a range of educational and community-based backgrounds. Our students and alumni include state and local elected officials; community organizers and developers; personnel in human resource institutions (including program planners, outreach workers, and administrators); teachers, directors, and owners of community day care programs; youth workers in community and group home care; teachers and directors of alternative schools; and directors of community-based organizations.

The Bachelor of Science degree in Community Engagement and Education is also available as a second degree option.

## Programs

- Community Engagement and Education, BS (p. 338)
- Community Engagement and Education, BS: Child and Family Services (p. 339)
- Community Engagement and Education, BS: Child Care (p. 341)
- Community Engagement and Education, BS: Community-Based Organizations: Policy and Leadership (p. 343)
- Community Engagement and Education, BS: Exceptional Education (Non-Licensure) (p. 345)
- Community Engagement Strategies, Undergraduate Certificate (p. 347)
- Community Engagement, Minor (p. 349)
- Community Leadership, Undergraduate Certificate (p. 350)
- Community-Based Organizations: Policy and Leadership, Undergraduate Certificate (p. 351)
- Cultural Foundations of Community Engagement and Education, MS (p. 351)
- Racial and Social Justice in Education, Graduate Certificate (p. 353)
- Youth Work, Undergraduate Certificate (p. 355)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Michael Bonds	Associate Professor	PhD	University of Wisconsin-Milwaukee		✓
Edgar Epps	Professor	PhD			✓
Raquel Farmer-Hinton	Associate Professor	PhD	University of Illinois at Urbana-Champaign	✓	
Walter Farrell	Professor	PhD			✓
Ian Harris	Professor	EdD			✓
Florence Johnson	Senior Lecturer	PhD	University of Wisconsin-Milwaukee		
Julie Kailin	Associate Professor	PhD	University of Wisconsin-Madison		✓
Ronald Podeschi	Professor	PhD			✓
Kalyani Rai	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Aaron Schutz	Professor	PhD	University of Michigan	✓	
Rajeswari Swaminathan	Professor	PhD	Syracuse University	✓	
Javier Tapia	Associate Professor	PhD	University of Arizona	✓	

Aaria Troiano	Senior Lecturer	PhD	University of Wisconsin-Milwaukee	
Gary Williams	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓
Henry Woessner	Associate Professor	PhD		✓

## Community Engagement and Education, BS

The Community Engagement and Education Program is designed for students interested in changing their community, working in non-school educational roles or leadership in community-based organizations. Some students also pursue licensure for teaching in public schools after graduation or teach in private or charter schools.

Courses are offered during the day as well as online, in the evening and on weekends. We also give academic credit for prior professional experience. Areas of study include child care, youth work, urban education, alternative education, policy and leadership in community-based organizations, race relations, and community engagement and social action.

Our graduates work as youth leaders and educators, administrators in community-based organizations, teachers and directors of child care and head start centers, community organizers, and state and local elected officials. To learn more about careers, visit the CEED BS website (<https://uwm.edu/education/academics/community-engagement-edu/>) and click on the “Careers” tab to see a list of actual jobs held by alumni, or click on the “Alumni” tab to read stories about some of our alums.

### Program Highlights

- Can be completed fully online, face-to-face, or in combination. Courses offered in the evening, on weekends, online, and in hybrid format.
- Extremely diverse student body—learn with other students from a wide range of backgrounds.
- Up to 42 lower-division electives (free after the first 3) can be earned through our Prior Professional Educational Experience program.
- Accepts a wide range of transfer credits, from military transcribed credits to credits from Associates degrees that do not usually transfer. A number of articulation agreements allow additional credits from completed associates degrees in human services, early childhood education, business, and other programs from specific technical colleges. Visit the CEED BS website (<https://uwm.edu/education/academics/community-engagement-edu/>) for more detail.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

#### Program Core

Code	Title	Credits
<b>Advanced Expository Writing</b>		
Select one of the following: 3		
ENGLISH 201	Strategies for Academic Writing (OWC-B)	
ENGLISH 205	Business Writing (OWC-B)	

ENGLISH 206	Technical Writing (OWC-B)	
ENGLISH 207	Health Science Writing (OWC-B)	
ENGLISH 214	Writing in the Professions: (subtitle, OWC-B)	
<b>Lower Division Required Courses</b>		
ED POL 111	Introduction to Community Action and Change	3
ED POL 112	Introduction to Community Education, Engagement, and Development	3
ED POL 113 or ED POL 203	The Milwaukee Community (GER-SS) Communities and Neighborhoods in America	3
ED POL 114	Community Issues, Policies, and Solutions	3
<b>Lower Division Electives</b> <sup>1</sup>		
<b>Upper Division Required Courses</b>		
ED POL 375	Cultural Foundations of Education	3
ED POL 506	Research Techniques for Community Organizers and Community Educators	3
ED POL 534	Students Placed At Risk: Deconstructing Risk, Defining Promise	3
ED POL 601	Foundations of Community-Based Organizations	3
<i>Educational Policy Foundations</i>		
Select 15 credits of ED POL level 300 or higher courses <sup>2</sup>		15
<b>Upper Division Electives</b>		
Select 12 credits of 300-level or higher courses from any school/college <sup>3</sup>		12
<b>Total Credits</b>		<b>54</b>

<sup>1</sup> Students may earn elective units through upper- or lower-division Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

<sup>2</sup> A maximum of 6 credits of fieldwork (ED POL 509, ED POL 688, or ED POL 698) may be used toward meeting this requirement; ED POL 499 cannot be used.

<sup>3</sup> Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

### Additional Requirements for Graduation

- 2.0 UWM cumulative GPA
- Satisfactory completion of a minimum of 120 credits

### Opportunities

#### Prior Professional Education Experience (PPEE)

A student who has been accepted as a major in Community Engagement and Education is eligible to earn credit for their professional/life experience by demonstrating their competency through essay examinations (PPEE). Credits earned, by passing individual exams with a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to “pass” the course and receive at least

3 credits, a student must attempt 7 of the 14 competency area essay exams listed below.

### Competency Areas

Code	Title	Credits
	Community Perspectives on Human Resource Programs	3
	Resource Development	3
	Local Community Systems	3
	Political/Economic Analysis	3
	Personal Growth Competency	3
	Philosophies of Change	3
	Group Process Skills	3
	Leadership Issues	3
	Research Skills	3
	Change Strategies	3
	Educational Advocacy	3
	Administrative Skills	3
	Social Problem Analysis	3
	Conflict Resolution	3

Community Engagement and Education majors wishing to demonstrate their competencies for these credits are required to enroll in the competency examination course, ED POL 100 Community Education I, **during their first or second semester** of study. PPEE students have the opportunity to earn a maximum of 42 credits, which will *only* apply toward a Community Engagement and Education degree and *only* as lower-division electives. **Students who leave the CEED program will not be able to use these credits in other programs.**

## Undergraduate Advising

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### How to Prepare for an Advising Meeting

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- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### Scheduling an Appointment

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soeinfo@uwm.edu

## Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Community Engagement and Education, BS: Child and Family Services

The Submajor in Child and Family Services within the Community Engagement and Education BS Program is designed for students interested in working in settings that serve families and children, including foster care, case management, and other related arenas. The program is a collaboration with the Department of Social Work, and is a good option for students who are unable, for a range of reasons, to complete the traditional Bachelor's in Social Work. The program provides a good base for students who wish to go on to a Master's in Social Work, and some of the courses may count as part of the MSW degree, reducing the number of graduate credits you will need to take (students should contact advisors in the School of Social Welfare to determine this).

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

#### Program Core

Code	Title	Credits
<b>Advanced Expository Writing</b>		
Select one of the following:		
ENGLISH 201	Strategies for Academic Writing (OWC-B)	3
ENGLISH 205	Business Writing (OWC-B)	
ENGLISH 206	Technical Writing (OWC-B)	
ENGLISH 207	Health Science Writing (OWC-B)	
ENGLISH 214	Writing in the Professions: (subtitle, OWC-B)	
<b>Lower Division Required Courses</b>		
ED POL 111	Introduction to Community Action and Change	3
ED POL 112	Introduction to Community Education, Engagement, and Development	3
ED POL 113	The Milwaukee Community (GER-SS)	3
or ED POL 203	Communities and Neighborhoods in America	
ED POL 114	Community Issues, Policies, and Solutions	3
SOC WRK 100	Introduction to Social Work	3
SOC WRK 250	Human Behavior and the Social Environment	3
SOC WRK 306	Introduction to Social Welfare Policy	3
<b>Lower Division Electives</b> <sup>1</sup>		
<b>Upper Division Required Courses</b>		
ED POL 375	Cultural Foundations of Education	3
ED POL 506	Research Techniques for Community Organizers and Community Educators	3
ED POL 534	Students Placed At Risk: Deconstructing Risk, Defining Promise	3
ED POL/SOC WRK 580	An Overview of Child/Youth Care	3
ED POL 601	Foundations of Community-Based Organizations	3
<b>Educational Policy Foundations</b>		
Select 3 credits of ED POL level 300 or higher courses <sup>2</sup>		3
<b>Community-Based Organization Practice</b>		
Select one of the following:		
ED POL 602	Proposal Writing and Fundraising Skills for Community-Based Organizations	3
ED POL 604	Marketing for Community-Based Organizations	
ED POL 605	Community-Based Organization Funding	
<b>Children Placed at Risk</b>		
ED POL 535	Educating Students Placed At Risk: Pedagogies of Engagement	3
or ED POL 581	Youth Work Practice	

#### Advanced Expository Writing

#### Lower Division Required Courses

#### Lower Division Electives<sup>1</sup>

#### Upper Division Required Courses

#### Educational Policy Foundations

#### Community-Based Organization Practice

#### Children Placed at Risk

#### Upper Division Electives

<sup>1</sup> Students may earn elective units through upper- or lower-division Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

<sup>2</sup> ED POL 499 cannot be used to satisfy this requirement.

<sup>3</sup> Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

#### Additional Requirements for Graduation

- 2.0 UWM cumulative GPA
- Satisfactory completion of a minimum of 120 credits

#### Opportunities

##### Prior Professional Education Experience (PPEE)

A student who has been accepted as a major in Community Engagement and Education is eligible to earn credit for their professional/life experience by demonstrating their competency through essay examinations (PPEE). Credits earned, by passing individual exams with a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to "pass" the course and receive at least 3 credits, a student must attempt 7 of the 14 competency area essay exams listed below.

#### Competency Areas

Code	Title	Credits
	Community Perspectives on Human Resource Programs	3
	Resource Development	3
	Local Community Systems	3
	Political/Economic Analysis	3
	Personal Growth Competency	3
	Philosophies of Change	3
	Group Process Skills	3
	Leadership Issues	3
	Research Skills	3
	Change Strategies	3
	Educational Advocacy	3
	Administrative Skills	3
	Social Problem Analysis	3
	Conflict Resolution	3

Community Engagement and Education majors wishing to demonstrate their competencies for these credits are required to enroll in the competency examination course, ED POL 100 Community Education I, **during their first or second semester** of study. PPEE students have the opportunity to earn a maximum of 42 credits, which will *only* apply

toward a Community Engagement and Education degree and *only* as lower-division electives. **Students who leave the CEED program will not be able to use these credits in other programs.**

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GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

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honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Community Engagement and Education, BS: Child Care

### A Bachelor of Science degree program for teachers, administrators, and owners of child care organizations

*Have you taken Wisconsin Child Care Registry courses? This program accepts these in the major, allowing students to graduate more quickly.*

In the child-care submajor in the BS in Community Engagement and Education you will:

- Advance your career with relevant content
- Inform your passion for the development of young children
- Develop skills in:
  - Leadership
  - Entrepreneurship
  - Program Development
- Learn strategies for working with diverse communities and families
- Thrive in a supportive environment with experienced faculty

The program is offered fully online or hybrid. The hybrid format generally consists of 4 face-to-face meetings for each course in a semester.

Students can earn up to 42 lower-division elective credits for prior professional experience (all credits free after the first 3 credits).

### Transfer your Wisconsin Registry credentials

- The child-care sub major is acknowledged by the Wisconsin Child Care Registry as a "related" degree for professionals.
- 18 credits of child care credentials courses are taken at or transferred from other institutions into UWM.

Students are eligible for the TEACH Scholarship (<https://wisconsinearlychildhood.org/programs/t-e-a-c-h/>) Administered by the Wisconsin Early Childhood Association (WECA).

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Core

Code	Title	Credits
<b>Advanced Expository Writing</b>		
Select one of the following:		
ENGLISH 201	Strategies for Academic Writing (OWC-B)	3

ENGLISH 205	Business Writing (OWC-B)
ENGLISH 206	Technical Writing (OWC-B)
ENGLISH 207	Health Science Writing (OWC-B)
ENGLISH 214	Writing in the Professions: (subtitle, OWC-B)

**Lower Division Required Courses**

ED POL 111	Introduction to Community Action and Change	3
ED POL 112	Introduction to Community Education, Engagement, and Development	3
ED POL 113 or ED POL 203	The Milwaukee Community (GER-SS) Communities and Neighborhoods in America	3
ED POL 114	Community Issues, Policies, and Solutions	3

**Lower-Division Electives**<sup>1</sup>**Lower Division Child Care Electives**<sup>2</sup>**Upper Division Required Courses**

ED POL 375	Cultural Foundations of Education	3
ED POL 534	Students Placed At Risk: Deconstructing Risk, Defining Promise	3
ED POL 506	Research Techniques for Community Organizers and Community Educators	3
ED POL 601	Foundations of Community-Based Organizations	3

**Race Relations/Antiracist Education**

ED POL 625 or ED POL 626	Race Relations in Education (GER-CD) Antiracist Education	3
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**Upper Division Child Care Credential Credits**<sup>3</sup> **12****Total Credits** **42**

<sup>1</sup> Students may earn elective units through upper- or lower-division Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

<sup>2</sup> Students must complete one approved Wisconsin Registry credential (12-18 credits) and a total of 18 credits for the submajor. Six of these credits will count as Lower Division Electives. These lower-division credits may come from any of the Wisconsin Registry credentials.

<sup>3</sup> Students must complete the credits for one of the "Foundations" or "Administrative" credentials developed and overseen by the Wisconsin Registry at an institution that offers these to complete the submajor. ("Specialty" credentials cannot be used for this purpose.) Child-care Registry credits are completed at other institutions and transferred in - UWM does not offer these courses. Twelve credits from "Foundations" or "Administrative" credentials will count as upper-division credits in the major once the full credential is completed. Credentials do not need to be "commissioned." Eighteen *total* credits of child care credential courses must be completed for the submajor. All credits must be completed with a grade of C or better. (Child care registry courses completed by students at UWM when they were offered will also count.) The "Administrative" credentials are: Administrator, Leadership, Program Development. The "Foundations" credentials are: Preschool, Infant Toddler, Family, and Afterschool & Youth Development. Visit the Wisconsin Registry (<https://wiregistry.org/credentials-overview/>) for the list of all credentials offered under the auspices of the Registry, as well as the institutions that offer each of them.

**Additional Requirements for Graduation**

- Minimum 2.0 UWM cumulative GPA
- Satisfactory completion of a minimum of 120 credits

**Opportunities (p. 343)****Prior Professional Education Experience (PPEE)**

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**Competency Areas**

Code	Title	Credits
	Community Perspectives on Human Resource Programs	3
	Resource Development	3
	Local Community Systems	3
	Political/Economic Analysis	3
	Personal Growth Competency	3
	Philosophies of Change	3
	Group Process Skills	3
	Leadership Issues	3
	Research Skills	3
	Change Strategies	3
	Educational Advocacy	3
	Administrative Skills	3
	Social Problem Analysis	3
	Conflict Resolution	3

Community Engagement and Education majors wishing to demonstrate their competencies for these credits are required to enroll in the competency examination course, ED POL 100 Community Education I, **during their first or second semester** of study. PPEE students have the opportunity to earn a maximum of 42 credits, which will *only* apply toward a Community Engagement and Education degree and *only* as lower-division electives. **Students who leave the CEED program will not be able to use these credits in other programs.**

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## Scheduling an Appointment

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[soeinfo@uwm.edu](mailto:soeinfo@uwm.edu)

## Graduate Advising

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## Transfer of Child-Care Registry Credits

Child-care Registry credits are completed at other institutions and transferred in - UWM does not offer these courses. Students must complete one of the "Foundations" or "Administrative" credentials developed and overseen by the Wisconsin Child Care Registry at an institution that offers these. Eighteen total credits of WI Registry credits are required to fulfill the Child Care submajor. Students who complete a 12-credit credential through the Registry must transfer in additional Registry credits. Visit the Wisconsin Registry (<https://wiregistry.org/credentials-overview/>) for the list of all credentials offered as well as the institutions that offer each of them.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Community Engagement and Education, BS: Community-Based Organizations: Policy and Leadership

The Submajor in Community-Based Organizations in the Community Engagement and Education (CEED) Program is designed for students who already work or plan to work in community-based organizations working on a range of issues. The specific submajor courses will prepare you to work within and provide leadership in these organizations, understand budgeting and fundraising, and a range of other related issues. This CEED submajor is the only BS degree focused on community-based organizations in the State of Wisconsin. Courses focused on community-based organizations are combined with other CEED courses on collective action for social change, community development, and a range of related topics.

Courses in the CEED BS program are offered during the day as well as online, in the evening, and on weekends. We also give academic credit for prior professional experience.

Community-Based Organization submajor graduates work as youth leaders and educators, administrators in community-based organizations, community organizers, and state and local elected officials. To learn more about careers, go to [www.uwm.edu/ceed](http://www.uwm.edu/ceed) (<http://www.uwm.edu/ceed/>) and click on the "Careers" tab to see a list of actual jobs held by alumni, or click on the "Alumni" tab to read stories about some of our alums.

### Program Highlights:

- Can be completed fully online, face-to-face, or in combination. Courses offered in the evening, on weekends, online, and in hybrid format
- Extremely diverse student body—learn with other students from a wide range of backgrounds
- Up to 42 lower-division electives (free after the first 3) can be earned through our Prior Professional Educational Experience program
- Accepts a wide range of transfer credits, from military transcribed credits to credits from Associates degrees that do not usually transfer. A number of articulation agreements allow additional credits from completed associates degrees in human services, early childhood education, business, and other programs from specific technical colleges. Go to [www.uwm.edu/ceed](http://www.uwm.edu/ceed) (<http://www.uwm.edu/ceed/>) for more detail.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Core

Code	Title	Credits
<b>Advanced Expository Writing</b>		
Select one of the following:		
		3

ENGLISH 201	Strategies for Academic Writing (OWC-B)	
ENGLISH 205	Business Writing (OWC-B)	
ENGLISH 206	Technical Writing (OWC-B)	
ENGLISH 207	Health Science Writing (OWC-B)	
ENGLISH 214	Writing in the Professions: (subtitle, OWC-B)	

**Lower Division Required Courses**

ED POL 111	Introduction to Community Action and Change	3
ED POL 112	Introduction to Community Education, Engagement, and Development	3
ED POL 113 or ED POL 203	The Milwaukee Community (GER-SS) Communities and Neighborhoods in America	3
ED POL 114	Community Issues, Policies, and Solutions	3

**Lower Division Electives<sup>1</sup>****Upper Division Required Courses**

ED POL 375	Cultural Foundations of Education	3
ED POL 506	Research Techniques for Community Organizers and Community Educators	3
ED POL 534	Students Placed At Risk: Deconstructing Risk, Defining Promise	3
ED POL 601	Foundations of Community-Based Organizations	3

*Educational Policy Foundations*

Select 3 credits of ED POL level 300 or higher courses <sup>2</sup>	3
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*CBO Policy Analysis*

ED POL 602	Proposal Writing and Fundraising Skills for Community-Based Organizations	3
ED POL 605	Community-Based Organization Funding	3

Select two of the following:	6
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ED POL 509	Fieldwork/Practicum in Education and the Community <sup>3</sup>	
ED POL 603	Community Policy Analysis	
ED POL 610	Reproduction of Minoritized Communities	
ED POL 611	Community Policies and Urban Minority Youths	
ED POL 612	Community Participation and Power	
ED POL 624	Gender and Education	
ED POL 626	Antiracist Education	
ED POL 633	Community Development: History, Structure, Process-Empowering Communities	
ED POL 640	The Rise and Fall of America's Southern Civil Rights Movement	
ED POL 650	The Civil Rights Movement in Northern Cities	

*Management and Leadership*

Select two of the following:	6	
AD LDSP 507	Introduction to Group Leadership	
AD LDSP 537	Leadership and Management of Volunteer Programs	

AD LDSP 581	Administration and Supervision in Early Childhood Programs	
AD LDSP 617	Leadership in Youth-Serving Organizations	
AD LDSP 647	Evaluation of Adult, Continuing, and Higher Education Programs	
AD LDSP 667	Program Planning in Adult Education	
COMMUN 310	Communication in Organizations	
COMMUN 323	Communication in Groups and Teams	
COMMUN 665	Introduction to Mediation	
ED POL/AD LDSP 582	Operations Management in Early Childhood Programs	
ED POL 604	Marketing for Community-Based Organizations	
ED POL 608	Social Media and Technology for Community Engagement	
ED POL 609	Community Partnerships	
ED POL 625	Race Relations in Education	
PUB ADM 400	Ethics and Responsibility in Public Administration	

**Upper Division Electives**

Select 6 credits of 300-level or higher courses from any school/college <sup>4</sup>	6
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<b>Total Credits</b>	<b>54</b>
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<sup>1</sup> Students may earn elective units through upper- or lower-division Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

<sup>2</sup> ED POL 499 cannot be used to satisfy this requirement.

<sup>3</sup> Only 3 credits of ED POL 509 can be used to fulfill this requirement.

<sup>4</sup> Including upper-division transfer units. These courses should be chosen by the student in consultation with an advisor.

**Additional Requirements for Graduation**

- 2.0 UWM cumulative GPA
- Satisfactory completion of a minimum of 120 credits

**Opportunities****Prior Professional Education Experience (PPEE)**

A student who has been accepted as a major in Community Engagement and Education is eligible to earn credit for their professional/life experience by demonstrating their competency through essay examinations (PPEE). Credits earned, by passing individual exams with a grade of C or better, will be counted toward the Community Engagement and Education degree in 3-credit blocks. Students pay for one 3-credit course, and all additional credits they receive through the course are awarded without cost. In order to "pass" the course and receive at least 3 credits, a student must attempt 7 of the 14 competency area essay exams listed below.

**Competency Areas**

Code	Title	Credits
Community Perspectives on Human Resource Programs		3
Resource Development		3
Local Community Systems		3
Political/Economic Analysis		3
Personal Growth Competency		3



Philosophies of Change	3
Group Process Skills	3
Leadership Issues	3
Research Skills	3
Change Strategies	3
Educational Advocacy	3
Administrative Skills	3
Social Problem Analysis	3
Conflict Resolution	3

Community Engagement and Education majors wishing to demonstrate their competencies for these credits are required to enroll in the competency examination course, ED POL 100 Community Education I, **during their first or second semester** of study. PPEE students have the opportunity to earn a maximum of 42 credits, which will *only* apply toward a Community Engagement and Education degree and *only* as lower-division electives. **Students who leave the CEED program will not be able to use these credits in other programs.**

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## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Community Engagement and Education, BS: Exceptional Education (Non-Licensure)

The Exceptional Education (Non-Licensure) submajor in the Community Engagement and Education (CEED) BS program allows students to complete their degrees in a flexible format (online or hybrid) while also completing 12 credits that can be used in pursuing post-baccalaureate K4-12 Special Education licensure. The CEED BS program addresses issues of racial and social justice, strategies for supporting students placed at risk in the classroom, approaches for engaging with parents and the community, and much more. The submajor adds content on special education students, methods, teacher collaboration, and literacy. Students who choose not to pursue a subsequent teacher certification are well prepared by the CEED BS with the submajor to serve as paraprofessionals or in other roles in special education and education settings.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Core

Code	Title	Credits
<b>Advanced Expository Writing</b>		
Select one of the following:		3
ENGLISH 201	Strategies for Academic Writing (OWC-B)	
ENGLISH 205	Business Writing (OWC-B)	

ENGLISH 206	Technical Writing (OWC-B)	
ENGLISH 207	Health Science Writing (OWC-B)	
ENGLISH 214	Writing in the Professions: (subtitle, OWC-B)	
<b>Lower Division Required Courses</b>		
ED POL 111	Introduction to Community Action and Change	3
ED POL 112	Introduction to Community Education, Engagement, and Development	3
ED POL 113 or ED POL 203	The Milwaukee Community (GER-SS) Communities and Neighborhoods in America	3
ED POL 114	Community Issues, Policies, and Solutions	3
<b>Lower Division Electives</b> <sup>1</sup>		
<b>Upper Division Required Courses</b>		
ED POL 375	Cultural Foundations of Education	3
ED POL 506	Research Techniques for Community Organizers and Community Educators	3
ED POL 534	Students Placed At Risk: Deconstructing Risk, Defining Promise	3
ED POL 601	Foundations of Community-Based Organizations	3
<b>Educational Policy Education Courses</b>		
ED POL 535	Educating Students Placed At Risk: Pedagogies of Engagement	3
ED POL 624	Gender and Education	3
ED POL 625	Race Relations in Education	3
ED POL 626	Antiracist Education	3
ED POL 627	Theories and Issues of Racial Justice in Education	3
<b>Exceptional Education Focus Courses</b> <sup>2</sup>		
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
Choose one:		3
EXCEDUC 300	The Exceptional Individual	
EXCEDUC 600	Survey of Exceptional Education (Preferred course)	
EXCEDUC 605	Child, Learner, Disabilities	
EXCEDUC 635	Individualized Planning & Instructional Methods	3
EXCEDUC 662	Collaborative Strategies	3
<b>Total Credits</b>		<b>54</b>

<sup>1</sup> Students may earn elective units through upper- or lower-division Educational Policy and Community Studies courses, including Prior Professional Educational Experience (see below), transfer units, or other UWM courses.

<sup>2</sup> These courses fulfil requirements that can be used towards second degree/post-baccalaureate teacher certification in the K4-12 Exceptional Education licensure program if a submajor graduate is accepted to the program. *Grade of C or better is required for use in second degree/post-baccalaureate.* Additional coursework & requirements are needed to complete the licensure program (1-2 years). (Additional second degree/post-baccalaureate requirements include: portfolio; EXCEDUC 680, 681, 532, 587, 601, 679, 486, 488, 588, 636,

574; CURRINS 561, 562 [prerequisite: MATH 175, 176].) Students should discuss details with School of Education academic advisors.

### Additional Requirements for Graduation

- 2.0 UWM cumulative GPA
- Satisfactory completion of a minimum of 120 credits

2.5 UWM cumulative GPA required to continue into Exceptional Education Post-Baccalaureate Teacher Licensure Program.

### Opportunities

#### Prior Professional Education Experience (PPEE)

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#### Competency Areas

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	Community Perspectives on Human Resource Programs	3
	Resource Development	3
	Local Community Systems	3
	Political/Economic Analysis	3
	Personal Growth Competency	3
	Philosophies of Change	3
	Group Process Skills	3
	Leadership Issues	3
	Research Skills	3
	Change Strategies	3
	Educational Advocacy	3
	Administrative Skills	3
	Social Problem Analysis	3
	Conflict Resolution	3

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## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

# Community Engagement Strategies, Undergraduate Certificate

This undergraduate certificate gives students an opportunity to gain a practical, historical and theoretical understanding of strategies for promoting social change through collective action. If you're seeking an undergraduate degree at UWM, you'll receive the certificate upon completion of your degree. If you already have an undergraduate degree, you'll receive the certificate once you complete the program requirements. Students without a bachelor's degree receive a certificate from the UWM School of Continuing Education after completing the program's required coursework.

Please contact the coordinator of the Certificate, Aaron Schutz ([schutz@uwm.edu](mailto:schutz@uwm.edu)) to discuss admission to and requirements for this program.

### Outcomes

- Understand power relations
- Build coalitions
- Hold government officials accountable
- Work with the media

### Careers

With a focus on urban issues, this certificate is excellent preparation for students who are interested in becoming community organizers, youth and social workers, politicians, community researchers, and nonprofit administrators. It's also useful for students interested in specializing in other areas, such as international, environmental or union organizing.

## Requirements

The certificate program consists of 21 credits.

### Foundation Requirements

Code	Title	Credits
<b>Introductory Course</b>		
ED POL 111	Introduction to Community Action and Change	3
<b>External Practical Training <sup>1</sup></b>		
ED POL 508	Advanced Problems in Community Change and Engagement <sup>2</sup>	3
<b>Historical Perspectives on Organizing, Inequality, and Social Change</b>		
Choose one of the following:		
AFRIC 322	Order and Disorder: The Quest for Social Justice	
AFRIC 344	Global Black Social Movements	
AFRIC 411	Change in African-American Communities	
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	
ED POL 460	The Chicano Experience	
EXCEDUC 300	The Exceptional Individual	
HIST 267	The History of Latinos in the United States	
HIST 269	Asian Americans in Historical Perspective	

HIST 271	The 1960s in the United States: A Cultural History	
HIST 440	History of the American Working Classes	
HIST 446	African Americans Since the Civil War	
HIST 460	The History of Poverty in America	
HIST 468	The American Feminist Movement	
HIST 473	History of Wisconsin Indians	
<b>Total Credits</b>		<b>9</b>

<sup>1</sup> A second practical training may be approved in some cases by a student's advisor. Practical training must occur at time credits are taken and **written permission** must be included in student's file **prior to enrollment**.

<sup>2</sup> Enrollment in this course involves participation in a community organizing training offered by a non-UWM organization approved by the Program Committee. Contact the Department of Educational Policy & Community Studies to obtain approval before attending any program or combination of programs.

## Issue Area Requirements

Code	Title	Credits
Choose 3 credits from one area (practical or foundations) and 6 credits from the other		9

### Practical Issue Area

#### Leadership

AD LDSP 507	Introduction to Group Leadership	
AD LDSP 537	Leadership and Management of Volunteer Programs	

#### Communications/Public Relations/Applied Writing Skills

COMMUN 103	Public Speaking	
COMMUN 264	Persuasive Speaking	
COMMUN 350	Intercultural Communication	
COMMUN 363	Communication in Human Conflict	
COMMUN 464	Theory and Practice of Persuasion	
ENGLISH 214	Writing in the Professions:	
ENGLISH 435	Rhetoric and Professional Writing	
JAMS 524	Advertising and Public Relations Campaigns	

#### Fundraising

ED POL 602	Proposal Writing and Fundraising Skills for Community-Based Organizations	
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#### Evaluation/Applied Research Skills/Statistical Understanding

AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
AFRIC 350	The Black Family	
AD LDSP 647	Evaluation of Adult, Continuing, and Higher Education Programs	
ED POL 507	Action Research on Milwaukee Institutions	
POL SCI 392	Survey Research	

#### Organizational Change in Non-Profit Organizations

AD LDSP 607	Coordination of Staff Development and Training Program	
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#### Organizing/Negotiating

COMMUN 665	Introduction to Mediation	
ED POL 611	Community Policies and Urban Minority Youths	
ED POL 688	Fieldwork in Multicultural Education	
URBPLAN 655	Negotiation Theory and Practice for Urban Planners	

### Foundations Issue Area

#### Economics, Politics, and Urban Contexts in the United States

AFRIC 228	Introduction to Black Political Economy	
AFRIC 261	Survey of African-American Political Philosophy	
AFRIC 341	Black Politics and City Government	
ANTHRO 431	Cities and Culture	
ECON 248	Economics of Discrimination	
ECON 353	Economic Development	
ED POL 113	The Milwaukee Community	
HIST 450	The History of Milwaukee	
HIST 463	History of the American City	
POL SCI 105	State Politics	
POL SCI 213	Urban Government and Politics	
POL SCI 450	Urban Political Problems	
SOCIOLOG 377	Urbanism and Urbanization	
URBPLAN 141	Urban Planning Solutions to Contemporary Urban Problems	
URB STD 250	Exploring the Urban Environment	

#### Social Science Perspectives on Organizing, Inequality, and Social Change

AFRIC 411	Change in African-American Communities	
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	
COMMUN 672	Communication and Social Order	
ED POL 610	Reproduction of Minoritized Communities	
ED POL 625	Race Relations in Education	
EXCEDUC 300	The Exceptional Individual	
SOC WRK 306	Introduction to Social Welfare Policy	
SOC WRK 630	Families and Poverty	
SOCIOLOG 102	Solving Social Problems	
SOCIOLOG 233	Social Inequality in the United States	
SOCIOLOG 323	Perspectives on Latino Communities	
SOCIOLOG 324	Race and Ethnicity in Global Contexts	
SOCIOLOG 325	Social Change	
SOCIOLOG 338	Small Groups	
SOCIOLOG 343	Collective Behavior	
SOCIOLOG 350	Environmental Sociology	

**Total Credits** **9**

## Capstone Internship/Seminar in Community Organizing

Code	Title	Credits
ED POL 442	Intermediate Community Education Practice I <sup>3</sup>	3

**Total Credits** **3**

<sup>3</sup> A second internship in addition to ED POL 442 may be approved in some cases by a student's advisor. Internships must occur at the time credits are taken & written permission must be included in student's file prior to enrollment. The Program Committee is the final arbiter with regard to the relevance of internship opportunities to the mission of the certificate.

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## Student-Designed Issue Area Option

*May replace up to 6 credits of either Practical or Foundations focus areas.*

There are many courses at UWM not listed under the Practical and/or Foundations certificate focus areas that may be especially relevant to students with interest in a particular area of organizing. Therefore, with the written permission of the Program Coordinator, students with special interests may develop an issue area that may take the place of up to 6 credits of the Practical or Foundations areas.

Examples of possible student-designed issue areas might include:

- International Contexts and Organizing
- Organizing in Rural Settings

- Health Care Organizing
- Organizing around Issues of Sexuality and/or Sexual Orientation
- Contesting the Criminal Justice System
- Organizing around Disability Issues
- Pollution and Inequality

Courses for a student-designed focus area will only count towards the Community Engagement certificate if they are taken **after a student is officially admitted to the program, and must be officially approved prior to enrollment**. Students must show evidence that they cannot pursue their interest under the current constraints of the Practical and Foundations focus areas. A maximum of three credits of independent reading may be included in this student-designed focus if a relevant course or topic is not available at the University.

## Community Engagement, Minor

With this minor, students can learn about local urban communities and how to improve them. This practical knowledge can provide a foundation for building a career in a variety of human services and community-based careers. The Community Engagement and Education minor is open to all undergraduate students, but should be of particular interest to majors in:

- Africology
- Anthropology
- Business
- Communication
- Education
- Philosophy
- Political Science
- Psychology,
- Social Welfare
- Sociology

## Requirements

Students may declare the minor after completing at least 45 credits, but prior to completing 75 credits.

Code	Title	Credits
<b>Lower Division Requirements</b>		
ED POL 112	Introduction to Community Education, Engagement, and Development	3
ED POL 114	Community Issues, Policies, and Solutions	3
<b>Upper Division Electives</b>		
Select 12 credits of 300-level or higher ED POL courses		12
<b>Total Credits</b>		<b>18</b>

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate

information. We value our own continuous professional development to enhance the quality of the advising experience.

### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### Scheduling an Appointment

Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
[soeinfo@uwm.edu](mailto:soeinfo@uwm.edu)

### Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Community Leadership, Undergraduate Certificate

*Effective Spring 2023, the Community Leadership certificate has suspended admission.*

The Community Leadership Certificate provides students from any major with a way to explore leadership theory and identity in the community (including the campus community) and community-based institutions. The program will be based on a social justice model of leadership development, but will expose students to additional philosophies such as servant leadership and authentic leadership. Students will also gain practical experience by attending teambuilding activities such as ROPES courses, participating in community service, and doing a practicum in a leadership position, among other experiential learning activities.

*Effective Spring 2023, the Community Leadership certificate has suspended admission.*

### Requirements

The certificate program consists of 16 credits, three of which will come from an experiential learning course, with activities specific to the student's major.

Code	Title	Credits
ED POL 315	Group Process and Civic Engagement:	3
AD LDSP 691	Leadership Ethics in Multicultural Organizations	1
<b>Leadership Practice</b>		
Select one of the following:		3

ED POL 111	Introduction to Community Action and Change	
AD LDSP 507	Introduction to Group Leadership	
AD LDSP 537	Leadership and Management of Volunteer Programs	
<b>Social/Historical Foundations</b>		
Select 3 credits from list of selected courses (see advisor or program sheet)		3
<b>Practical Elective</b>		
Select 3 credits from list of selected courses (see advisor or program sheet)		3
<b>Leadership Capstone/Practicum</b> <sup>1</sup>		
Select one of the following:		3
ED POL 509	Fieldwork/Practicum in Education and the Community	
AD LDSP 630	Field Work in Schools, Agencies and Institutions	
COMMUN 698	Internship in Communication	
NURS 403	Practice, Research and Leadership Role Development	
WGS 489	Internship in Women's and Gender Studies	
<b>Total Credits</b>		<b>16</b>

<sup>1</sup> Sites could include community health clinics (group facilitation or advocacy roles), campus organizations (campus ambassadors, peer health advocates, etc.), local non-profits (board positions), and others.

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## Graduate Advising

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## Living Learning Communities (LLC)

Living Learning Communities are for those interested in being part of a “community within a community” by living in residence halls among students with similar interests. Members of Living Learning Communities (<http://uwm.edu/housing/communities/living-learning-communities/>) have access to special resources, programs and activities that will connect them with other students, instructors and life at the university. Among the many options is a Community Leadership LLC, which focuses on giving students the skills to succeed as active citizens and leaders in the community.

The Community Leadership option is open to freshmen and sophomores and requires enrollment in certain courses. Students who live in this LLC will only be 9 credits shy of **completing the Community Leadership Certificate Program**, making it a great add-on to one’s major or minor. Certificate completion is noted on University transcripts.

## Community-Based Organizations: Policy and Leadership, Undergraduate Certificate

This certificate program prepares students for mid-level positions in community-based organizations and provides a base for graduate work in non-profit management and other related areas. Students take coursework in foundations and policy, which provides an overview of the workings and role of CBOs, fundraising and marketing, and in leadership to provide knowledge in preparation for supervisory and management roles.

## Requirements

Code	Title	Credits
<b>Foundations and Policy</b>		
ED POL 601	Foundations of Community-Based Organizations	3
Choose one:		3
ED POL 603	Community Policy Analysis	
ED POL 605	Community-Based Organization Funding	
ED POL 610	Reproduction of Minoritized Communities	
ED POL 630	Race, Ethnicity, and Public Policy in Urban America	
<b>Fundraising and Marketing</b>		
ED POL 602	Proposal Writing and Fundraising Skills for Community-Based Organizations	3
or ED POL 604	Marketing for Community-Based Organizations	
<b>Leadership</b>		
Choose one:		3

ED POL 582	Operations Management in Early Childhood Programs
ED POL 608	Social Media and Technology for Community Engagement
ED POL 609	Community Partnerships
Choose one:	3
AD LDSP 537	Leadership and Management of Volunteer Programs
AD LDSP 581	Administration and Supervision in Early Childhood Programs
AD LDSP 617	Leadership in Youth-Serving Organizations

**Total Credits 15**

## Undergraduate Advising

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- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
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## Cultural Foundations of Community Engagement and Education, MS

The Department of Educational Policy and Community Studies offers a master’s program for educators, community leaders, and those working in community-based organizations. Students deepen their knowledge

about urban education and the contexts of urban communities. The program enhances participants' ability to critically analyze education and processes of community change, and courses focus on the causes of inequality and oppression and explore approaches for fostering change.

Our courses are offered in the evenings, online, hybrid, and on weekends to serve working students. All in-department courses required for the degree are offered online, and students are able to complete all of their departmental courses online over a two-year cycle as space permits.

A core of five courses provides a foundation in writing, sociology, history, philosophy and research.

Students are encouraged to develop and understand their own frameworks of values and theoretical perspectives as applied to the realities of urban education and urban communities. A faculty advisor will assist the student through the program, balancing flexibility and structure according to professional needs. Common focus areas include the following:

- Alternative Education/At-Risk Students
- Child Care
- Community Organizing for Social Change
- Community Engagement and Partnerships
- Educational Policy
- Race Relations
- Urban Education
- Youth Work

Because our program is very flexible, allowing 9 credits of electives within the department as well as 6 credits that can be chosen from across the university, students often create their own unique informal focus areas, which have included: Latino Studies, Working-Class Studies, Educating Hmong Students, Global Education, Comparative Education, Race and the Police, Education and the Homeless, and more.

A wide variety of professionals seeking to understand the urban context of education and community change have found this program useful. Graduates work in a range of fields: directors of non-profit and community-based agencies; teachers and principals in public, private, and alternative schools; administrators of child care centers; directors of social action organizations; managers of programs serving youth; administrators in health service facilities; community organizers; elected government officials; police officers; administrators of group homes; doctoral students; professors; and more. To discover more about what alumni do after graduation, visit the Cultural Foundations MS program website at [uwm.edu/culturalfoundations](http://uwm.edu/culturalfoundations). Click on the "Careers" tab to see a list of actual jobs taken by alumni, and click on the "Alumni" tab to watch some short videos of alumni talking about their experiences in the program.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements **plus**, submit a written statement of educational and professional goals with desired area of concentration to be considered for admission to the program.

## Credits and Courses

The program in Cultural Foundations of Community Engagement and Education requires a minimum of 30 graduate credits, divided among the following: required core courses (15); focus work (minimum 9 graduate credits), electives (minimum 6 graduate credits).

Code	Title	Credits
<b>Core Courses</b> <sup>1</sup>		
ED POL 702	Cultural Foundations of Education Graduate Seminar <sup>2</sup>	3
ED POL 705	Sociology of Education and Community Engagement	3
ED POL 710	Research Methods for Education and Community Engagement	3
ED POL 740	Modern Philosophies of Education and Community	3
ED POL 750	History of Education in American Communities	3
<b>Focus Work in Cultural Foundations</b>		
Select 9 credits in the Department of Educational Policy and Community Studies <sup>3</sup>		9
<b>Electives</b>		
Select a maximum of 6 graduate credits of electives <sup>4</sup>		6
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Each of these required courses has a set of major questions that guide the instructor and the students.

<sup>2</sup> ED POL 702 must be taken in the first two semesters after a student enrolls in the program.

<sup>3</sup> May be focused in the following areas:

- alternative education
- multicultural education
- peace education
- urban education
- educational policy

They will select this focus with the help of an advisor.

<sup>4</sup> In order to individualize the program, a maximum of 6 graduate credits of electives is selected in consultation with the advisor to enhance the specific professional goals of the student. These credits may be selected from courses within the Department, courses in other departments in the School of Education, or courses outside of the School of Education. A maximum of 3 credits of Independent Reading and 3 credits of fieldwork may be included in the program.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.



### Capstone Paper/Project or Thesis

All students in the Cultural Foundations of Community Engagement and Education program must complete either a final paper, final project, or thesis as part of their degree requirements. Each option is completed under the direction of a faculty supervisor, who may not be the student's initially assigned academic advisor.

### Final Paper Option

The final paper option generally begins with a research paper written in one of the student's classes. This paper is then brought to a more complete form with the support of a faculty supervisor. This option provides an opportunity to refine one's research and writing skills and to develop a fully thought-out analysis of a topic a student is especially interested in understanding. It also can serve as a writing sample for future graduate school applications. Students do not generally take extra credits to complete this option unless they are writing an entirely new paper. Note that this is NOT a thesis, which is a much more intensive and formalized research effort.

### Final Project Options

The final project option is generally for students who are interested in more practice-oriented work, and who may not be planning to go on for further graduate study. The final project often involves action research: collecting data on some change made on their job or on another effort, and concluding with a report and presentation about what was learned. However, final projects can take a range of forms depending on what is negotiated with a faculty supervisor and may require enrollment for credit. Final projects are less writing intensive than final papers.

### Thesis Option

A thesis represents a much more substantial research project that is submitted formally to the Graduate School. Students pursuing the thesis option may take up to 6 credits of ED POL 990 Research or Thesis.

### Exit Interview

Students completing any of the above options will also end with a final exit interview with two faculty members from the program.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Racial and Social Justice in Education, Graduate Certificate

School and community leaders increasingly seek to address racial and social justice challenges in classrooms, organizations, schools and neighborhoods.

A wide range of organizations are looking for people with the knowledge to improve equity.

But many do not fully understand the histories of racial and other oppression in the U.S., or the ways social, economic, and other forces continue to harm people from different groups.

In the Certificate in Racial and Social Justice in Education, you will join a diverse group of students who are working together to make sense

of these challenges and develop strategies to address them. Our highly qualified faculty will guide you on this journey.

### Students Will Learn:

- The history and sources of racial and other oppression in the U.S.
- How these oppressive forces affect schools and communities today
- Strategies to confront and change structures, attitudes, and patterns

### Why Choose Our Program?

- Diverse faculty with deep understandings of racial and social justice
- Diverse student body from a wide range of educational and community backgrounds
- Unique focus combining education and community contexts
- Flexible program tailored to student interests
- Available fully online, partially face-to-face/hybrid, and on evenings and weekends

The Certificate can be completed:

- Fully online
- Mostly face-to-face/hybrid (evening and weekend classes)
- In combination

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

Applicants must have a baccalaureate degree and a minimum 2.75 cumulative undergraduate grade point average. Students who do not meet the GPA minimum may provide additional evidence of admissibility, including passing two courses in the certificate program as a special student with a grade of B or better.

## Credits and Courses

Code	Title	Credits
<b>Required Courses</b>		
Choose one:		3
ED POL 627G	Theories and Issues of Racial Justice in Education	

ED POL 705	Sociology of Education and Community Engagement
<b>Focus Area Courses</b>	
Choose two from a single category: 6	
<i>Education and Communities</i>	
ED POL 610G	Reproduction of Minoritized Communities
ED POL 625G	Race Relations in Education
ED POL 626G	Antiracist Education
ED POL 630G	Race, Ethnicity, and Public Policy in Urban America
<i>Community Engagement and Change:</i>	
ED POL 501G	Community Change and Engagement
ED POL 608G	Social Media and Technology for Community Engagement
ED POL 612G	Community Participation and Power
<b>Content Electives</b>	
Choose two in consultation with certificate program director and/or advisors: 6	
<i>Schools, Decolonization, Communities</i>	
AD LDSP 861	Foundations in Systems of Educational Equity
AD LDSP 777	Leadership in Multicultural Organizations
CURRINS/EXCEDUC 612G	Collaborations for Teachers with Families, Schools, and Communities
CURRINS 716	Teaching in Urban & Diverse Communities
ED POL 501G	Community Change and Engagement
ED POL 520G	Peace Education
ED POL 533G	Educating Black Males-Theories, Methods and Strategies
ED POL 534G	Students Placed At Risk: Deconstructing Risk, Defining Promise
ED POL 535G	Educating Students Placed At Risk: Pedagogies of Engagement
ED POL 560G	Education and Hispanics
ED POL 561G	Education Issues in American Indian Communities
ED POL 575G	Foundations of Education
ED POL 597G	Public Schools, Church-State Issues: Educational Foundations
ED POL 608G	Social Media and Technology for Community Engagement
ED POL 610G	Reproduction of Minoritized Communities
ED POL 612G	Community Participation and Power
ED POL 621G	History of Native Education and Policy Development
ED POL 624G	Gender and Education
ED POL 625G	Race Relations in Education
ED POL 626G	Antiracist Education
ED POL 630G	Race, Ethnicity, and Public Policy in Urban America

ED POL 633G	Community Development: History, Structure, Process-Empowering Communities
ED POL 640G	The Rise and Fall of America's Southern Civil Rights Movement
ED POL 650G	The Civil Rights Movement in Northern Cities
ED POL 705	Sociology of Education and Community Engagement
ED POL 750	History of Education in American Communities
ED PSY 833	Social Psychology of Group Differences: Race and Ethnicity

**Total Credits** 15

A student's faculty advisor or the graduate representative can approve substitutions for Certificate program courses.

## Additional Requirements

### Capstone Final Portfolio

At the end of the program, students complete a capstone portfolio drawing from the work completed during the program that synthesizes and reflects upon what they have learned, particularly how this new knowledge might affect their practice. They will present their conclusions before a faculty member in the Department. For students in the Cultural Foundations MS program, this could be integrated with the final MS paper.

### Transfer Credit

Students may transfer in a maximum of 3 relevant credits, as determined by a student's advisor.

### Grade Point Average Requirement

Students must have a cumulative GPA of 2.75.

### Time Limit

Three years from initial enrollment.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

# Youth Work, Undergraduate Certificate

*Effective Spring 2023, the Youth Work certificate has suspended admission.*

The Youth Work Certificate is available to students in Social Work, Community Education and Engagement, Exceptional Education, and Educational Studies. It is ideal for students who want to learn more about adolescence and working with youth in a variety of settings, including large and small community based programs, group homes, foster care, and residential treatment centers. The focus is on youth who are troubled or at high risk, but much of the learning applies to youth in general and younger children as well.

*Effective Spring 2023, the Youth Work certificate has suspended admission.*

## Requirements

Code	Title	Credits
ED POL/SOC WRK 580	An Overview of Child/Youth Care	3
ED POL/SOC WRK 581	Youth Work Practice	3
ED POL 509	Fieldwork/Practicum in Education and the Community <sup>1</sup>	2-3
Select 6 credits of courses focused on Human Development or Family Work in consultation with advisor		6
<b>Total Credits</b>		<b>14-15</b>

<sup>1</sup> Fieldwork must relate to child and/or youth care.

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- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
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## Educational Psychology

The Department of Educational Psychology prepares psychologists, counselors, researchers and educational professionals to effectively promote educational research, learning and development, and mental health in urban environments. We aim to prepare counselors, psychologists, researchers, and educational professionals who 1) have a foundation of knowledge about the bio/psycho/social bases of behavior, 2) are culturally responsive to, and understand, the unique developmental, contextual, and systems approaches in urban settings and environments, 3) can become scholars with applied research skills in their area of specialization, and 4) demonstrate the knowledge, skills, and values of their chosen area of specialization.

Students may pursue a Master of Science or Doctor of Philosophy in Educational Psychology in one of four concentration areas: cognitive and developmental sciences, educational statistics and measurement, school psychology, and counseling psychology (school counseling and clinical mental health counseling). The Department also offers certification sequences to qualify students as school psychologists and school counselors.

Undergraduate students may take courses in Educational Psychology toward various certificates or toward the minor in Counseling. The minor is available to undergraduates from other majors, such as Psychology, Nursing, Criminal Justice, Communication, and other areas in which students are interested in developing counseling skills.

The Counseling Psychology and School Psychology specializations at the master's and doctoral level are accredited by the American Psychological Association (APA).

## Programs

- Children's Mental Health for School Professionals, Graduate Certificate (p. 356)
- Counseling, Minor (p. 357)
- Educational Psychology, MS: Clinical Mental Health Counseling (p. 358)
- Educational Psychology, MS: Cognitive and Developmental Sciences (p. 359)
- Educational Psychology, MS: Educational Statistics and Measurement (p. 360)
- Educational Psychology, MS: School Counseling (p. 361)
- Educational Psychology, MS: School Psychology (p. 363)
- Educational Psychology, PhD: School Psychology (p. 364)
- Educational Psychology, PhD: Cognitive and Developmental Sciences (p. 366)
- Educational Psychology, PhD: Counseling Psychology (p. 368)
- Educational Psychology, PhD: Educational Statistics and Measurement (p. 371)

- Multicultural Knowledge of Mental Health Practices, Graduate Certificate (p. 373)
- School Counseling, Graduate Certificate (p. 374)
- School Psychology, EdS (p. 375)
- Trauma Informed Care, Graduate Certificate (School of Education, Department of Educational Psychology) (p. 376)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Kelsey Autin	Assistant Professor	PhD	University of Florida	✓	
Razia Azen	Professor	PhD	University of Toronto	✓	
Adrian Chan	Professor	PhD			✓
Roberta Corrigan	Professor	PhD			✓
Jerry Davis	Professor	PhD			
Anne Ellison	Professor	EdD			✓
Nadya Fouad	Distinguished Professor	PhD	University of Minnesota	✓	
Megan Gilbertson	Assistant Professor	PhD	Northern Illinois University		
Gerald Gleason	Professor	PhD			✓
Kyongboon Kwon	Associate Professor	PhD	University of Georgia	✓	
Susie Lamborn	Associate Professor	PhD	University of Denver	✓	
Christopher Lawson	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Xu Li	Assistant Professor	PhD	University of Maryland-College Park	✓	
Ronald H. Lingren	Professor	PhD			✓
Ann Meyer	Professor	PhD			✓
Doug Mickelson	Associate Professor	PhD			✓
Jacqueline Nguyen	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Ankita Nikalje	Assistant Professor	PhD	Purdue University	✓	
Leah Rouse	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Martin Sapp	Professor	EdD			✓
Philip Smith	Professor	PhD			✓
Karen Stoiber	Professor	PhD	University of Wisconsin-Madison	✓	
John Surber	Associate Professor	PhD			✓
Mary Walz-Chojnacki	Senior Lecturer	MS	University of Wisconsin-Madison		
Stephen Wester	Professor	PhD	University of Florida	✓	
Kenneth Wodtke	Associate Professor	PhD			✓
Bo Zhang	Professor	PhD	University of Pittsburgh	✓	

## Children's Mental Health for School Professionals, Graduate Certificate

*As of Spring 2017, the Children's Mental Health for School Professionals certificate has suspended admission. This means that unless you have been accepted into this certificate program prior to Spring 2017, you will not be able to earn the certificate. The following information is provided solely for the benefit of students accepted into the Children's Mental Health for School Professionals certificate prior to Spring 2017.*

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

- Post baccalaureate: Minimum 2.75 undergraduate GPA, submit undergraduate transcripts and letter of intent.
- Current graduate students: minimum 3.0 cumulative GPA; submit current transcript and letter of intent.
- Post graduate: submit graduate transcript and letter of intent.

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).

- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Credits and Courses

15 graduate credits as follows:

Code	Title	Credits
ED PSY 710	Child and Adolescent Mental Health Issues in Schools	3
ED PSY 711	Cultural Context of Children’s Mental Health	3
ED PSY 712	Mentally Healthy Classroom and School Environments	3
ED PSY 713	Mental Health Needs in Urban Environments	3
COUNS 805	Consultation Strategies for Counselors and School Psychologists (or approved alternative)	3
<b>Total Credits</b>		<b>15</b>

The certificate is conferred on completion of all courses with a grade of B or better.

## Additional Requirements

### Transfer Credit

No credits may be taken at an institution other than UWM.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

## Counseling, Minor

Counseling is an essential component across disciplines in psychology, education, social work, and related health professions. The foundational body of knowledge and development of introductory skills in the field of counseling are applicable to students pursuing these professions. A counseling minor would enable individuals to empower diverse individuals, families, and groups to accomplish mental health, wellness, education, and career goals and overcome personal challenges and obstacles in a variety of settings.

## Requirements

### Minor Requirements

Code	Title	Credits
ED PSY 212	Career Planning and Development for the Multicultural Workplace	3
ED PSY 220	Positive Psychology Applied to Culture, Learning, & Development	3
COMMUN 350 or COMMUN 402	Intercultural Communication Gender and Communication	3
ED PSY 330 or ED PSY 640	Introduction to Learning and Development Human Development: Theory and Research	3
COUNS 403	Overview of Counseling Skills	3
COUNS 600	Introduction to Clinical Mental Health Counseling	3
<b>Total Credits</b>		<b>18</b>

### Completion

- 18 credits, at least 9 at the 300 level and above;
- Minimum GPA of 2.5 on all credits in the minor, including UWM and transfer credits.

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.

- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### ***Scheduling an Appointment***

Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
soeinfo@uwm.edu

### **Graduate Advising**

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## **Educational Psychology, MS: Clinical Mental Health Counseling**

The counseling program in the Department of Educational Psychology offers two distinct concentration areas:

- Clinical Mental Health Counseling
- School Counseling

Given UWM's location in the largest urban area in Wisconsin, the counseling faculty is committed to training multiculturally competent community counselors and school counselors to serve clients in urban environments. Both concentrations share a core preparation in the areas of counseling and educational psychology. As students make progress in their program of studies, their focus will take on a more specialized training with content specific courses and field placements where they will refine their counseling skills in practical settings.

The concentrations train counselors to work with a diverse group of clients in urban settings and to deliver services in an ethical manner, as outlined by professional codes of conduct. They share in common courses comprising an Educational Psychology core of studies, a general Counseling core of studies, and a Concentration core. The Educational Psychology core provides knowledge for understanding research and professional scholarship, techniques of educational and psychological measurement, and typical human growth and development across the life-span. The Counseling core courses provide training in basic helping processes and relationships, career development, social and diversity issues in counseling, group work, appraisal of client issues, counseling theory, and the role of family systems. The Concentration core provides training in advanced strategies for helping clients change, and opportunities for increasing competency with specific populations through field placement. Pre-Practicum, Practicum I and Practicum II provide 700 hours of supervised clinical training which involves the refinement of more advanced and sophisticated counseling skills in placements in actual counseling settings.

The Clinical Mental Health Counseling concentration prepares students for work in a variety of community settings such as mental health clinics, community agencies, counseling centers, colleges and universities, and

business and industry. Students arrange their program of studies in consultation with their advisors so that the 60 credits earned toward a master's degree will meet selected state certification requirements.

## **Admission Requirements**

### **Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### **Application**

Before applying please see the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for department-specific application requirements.

### **Admission**

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.
4. For the concentrations in Clinical Mental Health Counseling, School Counseling, and School Psychology: a resume or curriculum vitae.
5. Completion of the reason statement in the application.

### **Admission - Clinical Mental Health Counseling Concentration**

Admission to the master's concentrations in counseling takes place in the fall. The Department of Educational Psychology deadline for receipt of completed applications is February 15.

If you are interested in applying to one of the master's concentrations in counseling, please see the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for more information. A student handbook containing detailed information on each program is available online; it can be accessed by clicking on the specific program of interest in the left-hand navigation bar. For further questions not addressed on the website, contact the Department of Educational Psychology at [edpsydp@uwm.edu](mailto:edpsydp@uwm.edu).

Students who seek admission to the Clinical Mental Health or School Counseling concentrations within the counseling area must apply through the Graduate School (<https://graduateschool-apply.uwm.edu/>) for admission to the Department of Educational Psychology. Please note that Graduate School deadlines are earlier because they receive, evaluate, and send completed graduate school applications to the Department. Upon admission, the student is assigned to a faculty member of the Department of Educational Psychology-Counseling Area who shall serve as the student's advisor.

The Counseling Area follows the admissions requirements of the Graduate School and the Department of Educational Psychology.

- 48 credits are required for the School Counseling concentration.
- 60 credits are required for the Clinical Mental Health Counseling concentration.

## Credits and Courses

Code	Title	Credits
<b>Educational Psychology Core</b>		
ED PSY 624	Educational Statistical Methods I	3
ED PSY 640	Human Development: Theory and Research	3
ED PSY 720	Techniques of Educational and Psychological Measurement	3
<b>Counseling Core</b>		
COUNS 710	Counseling: Theory and Issues	3
COUNS 711	Foundations in Career Development	3
COUNS 714	Essentials of Counseling Practice	3
COUNS 715	Multicultural Counseling	3
COUNS 774	Trauma Counseling I: Theory and Research	3
COUNS 800	Group Counseling Theory	3
COUNS 904	Family Systems Theory, Research, and Practice	3
<b>Clinical Mental Health Counseling</b>		
COUNS 600	Introduction to Clinical Mental Health Counseling	3
COUNS 702	Neuroscience and Medical Aspects of Counseling	3
COUNS 755	Counseling Pre-Practicum	3
COUNS 751	Multicultural Considerations in Lifespan Psychopathology	3
COUNS 765	Supervised Practicum 1 in Clinical Mental Health Counseling	3
COUNS 812	Clinical Studies in Counseling	3
COUNS 820	Counseling Appraisal and Clinical Decision-Making	3
COUNS 970	Supervised Practicum 2 in Clinical Mental Health Counseling	3
SOC WRK 791	Current Topics in Social Work: (Topic for required credit is AODA.)	3
<b>Electives</b>		
Select 3 elective credits		3
<b>Total Credits</b>		<b>60</b>

In addition to the courses listed above, students must complete a comprehensive examination, a master's paper, or a thesis (no more than three thesis credits to apply towards the degree).

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A

student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

### Thesis

Optional. Up to 6 degree credits may be awarded for thesis research.

### Comprehensive Examination

The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Educational Psychology, MS: Cognitive and Developmental Sciences

The Cognitive and Developmental Sciences concentration provides students with the psychological foundations of education. The program emphasizes the perspective of the learner and concentrates on the following content areas: cognition, development, and social. The program focuses on research skills as they apply to education and training, throughout the lifespan, in a broad range of settings.

Graduates of the MS program go on to pursue a PhD (often in Educational Psychology or a related field) or find jobs in education and/or research settings in the private or public sectors. Many graduates of our PhD program pursue careers at research institutes and universities.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

Before applying please see the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for department-specific application requirements.

### Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.

- For the concentrations in Clinical Mental Health Counseling, School Counseling, and School Psychology: a resume or curriculum vitae.
- Completion of the reason statement in the application.

## Credits and Courses

Students are required to complete 30 credits for the master's degree. Students complete 9 credits of core courses, 15 credits of a concentration, and 6 elective credits. Students' programs of studies are developed in consultation with their assigned advisor.

Code	Title	Credits
<b>Core Courses</b>		<b>9</b>
ED PSY 624	Educational Statistical Methods I	
ED PSY 631	Cognition: Learning, Problem Solving and Thinking	
ED PSY 640	Human Development: Theory and Research	
<b>Required Courses (15 graduate credits)</b>		<b>15</b>
ED PSY 734	Contextual Determinants of Motivation	
ED PSY 735	Social Cognition in Educational Psychology	
ED PSY 742	Personality Theories and the Educational Process	
ED PSY 743	Human Development: Study of Infancy and Early Childhood	
ED PSY 746	Human Development: Study of the Adolescent	
ED PSY 747	Human Development: Study of the Adult	
ED PSY 831	Cognition: Theory and Research	
ED PSY 833	Social Psychology of Group Differences: Race and Ethnicity	
ED PSY 834	The Psychology of Achievement Motivation	
ED PSY 844	The Multicultural Family	
ED PSY 845	Immigrant Child in Developmental Perspective	
<b>Elective credits</b>		<b>6</b>
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

### Thesis

Optional. Up to 6 degree credits may be awarded for thesis research.

### Comprehensive Examination

The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Educational Psychology, MS: Educational Statistics and Measurement

Many fields and employers need professionals who have expertise in statistics and measurement to make sense of data and use data to answer research questions.

UWM's Department of Educational Psychology offers a few options for students who are interested in specializing in educational statistics and measurement. The Master's program will provide students with the knowledge necessary to execute research and evaluate and critique existing research — a valuable asset whether you're planning to put your skills to use in the workforce right away or go on to doctoral studies.

### Why Choose Our MS Program?

**Ranked #22 in Best Master's in Assessment and Measurement degree programs of 2022 by Intelligent.com** (<https://www.intelligent.com/best-masters-in-assessment-and-measurement-degree-programs/>)

You'll be taught and mentored by faculty who specialize in this field, and after completing your master's studies you'll be ready to:

- Analyze and interpret data
- Design and build assessment instruments
- Design research projects and address research questions using quantitative data
- Conduct program evaluations

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

Before applying please see the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for department-specific application requirements.

### Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

- An undergraduate GPA of 3.00.
- Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits



earned in making up deficiencies may be counted as program credits required for the degree.

3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.
4. For the concentrations in Clinical Mental Health Counseling, School Counseling, and School Psychology: a resume or curriculum vitae.
5. Completion of the reason statement in the application.

ED PSY 929 Seminar in Statistics and Research Design

**Total Credits 30**

Students' programs of study are developed in consultation with their assigned advisor.

## Credits and Courses

Students are required to complete 30 credits for the master's degree.

Code	Title	Credits
<b>Core</b>		
ED PSY 624	Educational Statistical Methods I	3
ED PSY 720	Techniques of Educational and Psychological Measurement	3
ED PSY 724	Educational Statistical Methods II	4
ED PSY 728	Techniques of Educational Research	3
<b>Cognitive and Developmental Sciences</b>		<b>6</b>
ED PSY 734	Contextual Determinants of Motivation	
ED PSY 735	Social Cognition in Educational Psychology	
ED PSY 742	Personality Theories and the Educational Process	
ED PSY 743	Human Development: Study of Infancy and Early Childhood	
ED PSY 746	Human Development: Study of the Adolescent	
ED PSY 747	Human Development: Study of the Adult	
ED PSY 831	Cognition: Theory and Research	
ED PSY 833	Social Psychology of Group Differences: Race and Ethnicity	
ED PSY 834	The Psychology of Achievement Motivation	
ED PSY 844	The Multicultural Family	
ED PSY 845	Immigrant Child in Developmental Perspective	
<b>Electives (11 credits)</b>		<b>11</b>
<i>6 credits must be from the following Educational Statistics and Measurement courses:</i>		
ED PSY 820	Multiple Regression	
ED PSY 821	Psychometric Theory and Practice	
ED PSY 822	Item Response Theory	
ED PSY 823	Structural Equation Modeling	
ED PSY 824	Advanced Experimental Design and Analysis	
ED PSY 825	Multivariate Methods	
ED PSY 826	Analysis of Cross-Classified Categorical Data	
ED PSY 827	Survey Research Methods	
ED PSY 828	Program Evaluation in Education	
ED PSY 829	Instrument Development	
ED PSY 922	Seminar in Measurement and Evaluation:	

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

### Thesis

Optional. Up to 6 degree credits may be awarded for thesis research.

### Comprehensive Examination

The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Educational Psychology, MS: School Counseling

The counseling program in the Department of Educational Psychology offers two distinct concentration areas:

- Clinical Mental Health Counseling
- School Counseling

Given UWM's location in the largest urban area in Wisconsin, the counseling faculty is committed to training multiculturally competent community counselors and school counselors to serve clients in urban environments. Both concentrations share a core preparation in the areas of counseling and educational psychology. As students make progress in their program of studies, their focus will take on a more specialized training with content specific courses and field placements where they will refine their counseling skills in practical settings.

The concentrations train counselors to work with a diverse group of clients in urban settings and to deliver services in an ethical manner, as outlined by professional codes of conduct. They share in common courses comprising an Educational Psychology core of studies, a general Counseling core of studies, and a Concentration core. The Educational Psychology core provides knowledge for understanding research and professional scholarship, techniques of educational and psychological measurement, and typical human growth and development across the life-span. The Counseling core courses provide training in basic helping processes and relationships, career development, social and diversity issues in counseling, group work, appraisal of client issues, counseling theory, and the role of family systems. The Concentration core provides training in advanced strategies for helping clients change, and opportunities for increasing competency with specific populations through field placement. Supervised Practicum I and II in Counseling involve the refinement of more advanced and sophisticated counseling

skills in placements in actual counseling settings. Students are required to spend 20 hours each week during the semester at their placement site. This concentration requires 48 credits.

The School Counseling concentration prepares students to work as school counselors. The program is approved by the Wisconsin Department of Public Instruction. Students are trained to apply the principles of learning, human development, counseling, and research and measurement within the schools. Preparation is designed to enable students to deliver school counseling programs and services to schools and the community. Students arrange their program of studies in consultation with their advisors so that the 48 credits earned toward a master's degree also will satisfy Wisconsin State Certification requirements. Certification is available as a K-12 School Counselor.

The School Counseling Certification program is for students who already possess a master's degree. Certification students are admitted to the school counseling certification and enroll as non-degree candidates. They need to meet the requirements for school counselor certification, which are generally fewer than the credits required for the MS. Final selection of courses is determined by consultation with an advisor. Certification is available as a K-12 School Counselor. The requirements for this certification program meet the certification standards of the Wisconsin Department of Public Instruction.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

Before applying please see the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for department-specific application requirements.

### Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.
4. For the concentrations in Clinical Mental Health Counseling, School Counseling, and School Psychology: a resume or curriculum vitae.
5. Completion of the reason statement in the application.

### Admission - School Counseling Concentration

Admission to the master's concentrations in counseling takes place in the fall. The Department of Educational Psychology deadline for receipt of completed applications is February 15.

If you are interested in applying to one of the master's concentrations in counseling, please see the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for more information. A student handbook containing detailed information on each program is available online; it can be accessed by clicking on the specific program of interest in the left-hand navigation bar. For further questions not addressed on the website, contact the Department of Educational Psychology at [edpsydpt@uwm.edu](mailto:edpsydpt@uwm.edu).

Students who seek admission to the Clinical Mental Health or School Counseling concentrations within the counseling area must apply through the Graduate School (<https://graduateschool-apply.uwm.edu/>) for admission to the Department of Educational Psychology. Please note that Graduate School deadlines are earlier because they receive, evaluate, and send completed graduate school applications to the Department. Upon admission, the student is assigned to a faculty member of the Department of Educational Psychology-Counseling Area who shall serve as the student's advisor.

The Counseling Area follows the admissions requirements of the Graduate School and the Department of Educational Psychology.

- 48 credits are required for the School Counseling concentration.
- 60 credits are required for the Clinical Mental Health Counseling concentration.

## Credits and Courses

Code	Title	Credits
<b>Educational Psychology Core</b>		
ED PSY 624	Educational Statistical Methods I	3
ED PSY 640	Human Development: Theory and Research	3
ED PSY 720	Techniques of Educational and Psychological Measurement	3
<b>Counseling Core</b>		
COUNS 710	Counseling: Theory and Issues	3
COUNS 711	Foundations in Career Development	3
COUNS 714	Essentials of Counseling Practice	3
COUNS 715	Multicultural Counseling	3
COUNS 774	Trauma Counseling I: Theory and Research	3
COUNS 800	Group Counseling Theory	3
COUNS 904	Family Systems Theory, Research, and Practice	3
<b>School Counseling</b>		
COUNS 602	Introduction to School Counseling	3
COUNS 764	Supervised Practicum 1 in School Counseling	3
COUNS 810	Counseling in the Schools	3
COUNS 816	Counseling Children and Adolescents	3
COUNS 968	Supervised Practicum 2 in School Counseling	3
<b>Electives</b>		
Select 3 elective credits <sup>1</sup>		3
<b>Total Credits</b>		<b>48</b>

<sup>1</sup> EXCEDUC 600, is required for non-teachers in place of the elective.

In addition to the courses listed above, students must complete a comprehensive examination, a master's paper, or a thesis (no more than three thesis credits to apply towards the degree).

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

### Thesis

Optional. Up to 6 degree credits may be awarded for thesis research.

### Comprehensive Examination

The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Educational Psychology, MS: School Psychology

The master's degree in Educational Psychology (School Psychology concentration) is designed as part of the Educational Specialist degree. Students in the EdS track earn a master's degree along the way to their final degree upon completion of the master's degree requirements.

As such, the master's degree is not a terminal degree. Students must complete 31 graduate credits. Further, students in the EdS track must pass the master's exam.

The School Psychology concentration incorporates the scientist-practitioner model and provides a concrete link between theory, research, and practice. The program prepares students for employment in school and mental health settings. Students are prepared to provide psychological services to children, adolescents, and families; to conduct research; and to empirically evaluate the efficacy of their psychoeducational interventions and assessment procedures.

The following degree options are available: Master of Science Degree in Educational Psychology with a concentration in School Psychology; Education Specialist Degree in School Psychology; and, a PhD in Educational Psychology: Specialization in School Psychology. The PhD Program is accredited by the American Psychological Association (APA) and the National Association of School Psychologists (NASP).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Application

Before applying please see the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for department-specific application requirements.

## Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. An undergraduate GPA of 3.00.
2. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.
3. Initial advisor assignment will be made by the area chair of the concentration to which the applicant has applied.
4. For the concentrations in Clinical Mental Health Counseling, School Counseling, and School Psychology: a resume or curriculum vitae.
5. Completion of the reason statement in the application.

## Credits and Courses

Students in the Educational Psychology MS - School Psychology concentration pursue the Education Specialist (EdS) as their terminal degree.

### Master's Degree Requirements - EdS Track (31 credits minimum)

Code	Title	Credits
<b>School Psychology Foundations</b>		
ED PSY 751	Professional and Historical Issues in School Psychology	3
ED PSY 752	Developmental Psychopathology	3
ED PSY 755	Cognitive Assessment: School Age Children	4
ED PSY 851	Assessment and Interventions: Personality, Social and Emotional Functioning	3
COUNS 805	Consultation Strategies for Counselors and School Psychologists	3
ED PSY 760	Academic Intervention and Alternative Assessment	3
ED PSY 952	Pediatric Psychology in Urban Settings	3
<i>Choose from the list below for 9 credits minimum</i>		9
<b>Educational Statistics and Measurement</b>		
ED PSY 624	Educational Statistical Methods I	
ED PSY 724	Educational Statistical Methods II	
ED PSY 720	Techniques of Educational and Psychological Measurement	
<b>Development, Learning &amp; Cognition</b>		
ED PSY 631	Cognition: Learning, Problem Solving and Thinking	
ED PSY 640	Human Development: Theory and Research	
ED PSY 734	Contextual Determinants of Motivation	

ED PSY 735

Social Cognition in Educational Psychology

Total Credits

31

**Master's Examination**

Upon successful completion of 31 graduate credits, the student is eligible to become a candidate for the Master of Science in Educational Psychology. The master's degree is awarded pending successful completion of a master's comprehensive examination.

**Additional Requirements****Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Department Chair.

**Thesis**

Optional. Up to 6 degree credits may be awarded for thesis research.

**Comprehensive Examination**

The student who writes a thesis must pass a final oral examination in defense of that thesis. The student who does not write a thesis must pass a final oral or written comprehensive examination.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Educational Psychology, PhD: School Psychology**

The doctoral specialization in School Psychology adheres to a scientist-practitioner model of training and is designed to fully integrate psychological theory with rigorous research and professional practice skills. The program is committed to training multi-culturally competent school psychologists. The PhD program is accredited by the American Psychological Association and approved by the National Association of School Psychologists.

The School Psychology program has five major goals. It aims to prepare school psychologists to:

- Design and implement evidence-based therapeutic interventions that meet the mental health and educational needs of children, adolescents and families
- Engage in problem-solving consultation within and across schools and community settings with families and professionals to enhance the competencies and resilience of youth and to promote healthy home, school and community environments
- Conduct comprehensive assessments that are directly linked to interventions aimed at improving understanding and outcomes of youth, families and schools
- Provide service delivery and to conduct research that reflects APA and NASP ethical and professional standards
- Conduct, interpret, critique and disseminate high quality scientist-practitioner research that advances the field of school psychology

**Educational Psychology PhD**

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Cognitive and Developmental Sciences
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master's and doctoral level are accredited by the American Psychological Association (APA).

Office of Program Consultation and Accreditation  
American Psychological Association  
750 1st Street, NE, Washington, DC 20002  
Phone: (202) 336-5979  
E-mail: [apaaccred@apa.org](mailto:apaaccred@apa.org)  
Website: American Psychological Association Website (<https://accreditation.apa.org/>)

**Admission Requirements****Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

**Admission**

To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Undergraduate GPA of at least 3.0.
- A letter outlining the applicant's academic and professional background, declaration of School Psychology as the Area of Concentration, as well as specific research interests and goals for the PhD program.
- Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential.
- Resume or curriculum vita.

**Credits and Courses**

Code	Title	Credits
<b>Discipline-Specific Knowledge</b>		
<i>Category 1: History and Systems of Psychology</i>		
PSYCH 750	The History of Psychology	3
<i>Category 2: Foundations of Science</i>		
Biological Basis of Behavior		
PSYCH 854	Behavioral Neuroscience	3

Cognitive Basis of Behavior, choose one: 3

ED PSY 631G	Cognition: Learning, Problem Solving and Thinking	3
ED PSY 734	Contextual Determinants of Motivation	
ED PSY 735	Social Cognition in Educational Psychology	

Developmental Basis of Behavior, choose one: 3

ED PSY 640G	Human Development: Theory and Research	3
ED PSY 840	Theory and Issues in Human Development	
ED PSY 844	The Multicultural Family	
ED PSY 845	Immigrant Child in Developmental Perspective	

Affective Basis of Behavior

ED PSY 814	Cognition and Emotion: The Affective Components of Human Thought	3
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Social Basis of Behavior

ED PSY 833	Social Psychology of Group Differences: Race and Ethnicity	3
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Category 3: Advanced Integration

ED PSY 752	Developmental Psychopathology	3
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Research Methods Core

Research Methods, choose one: 3

PSYCH 760	Experimental Child Psychology	
ED PSY 728	Techniques of Educational Research	

Statistical Analysis

ED PSY 724	Educational Statistical Methods II	4
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choose two: 6

ED PSY 820	Multiple Regression	
ED PSY 822	Item Response Theory	
ED PSY 823	Structural Equation Modeling	
ED PSY 824	Advanced Experimental Design and Analysis	
ED PSY 825	Multivariate Methods	
ED PSY 826	Analysis of Cross-Classified Categorical Data	
ED PSY 827	Survey Research Methods	
ED PSY 832	Theory of Hierarchical Linear Modeling	

Psychometrics, choose one: 3

ED PSY 720	Techniques of Educational and Psychological Measurement	
ED PSY 821	Psychometric Theory and Practice	

School Psychology Concentration: Profession-Wide Competencies

COUNS 805	Consultation Strategies for Counselors and School Psychologists	3
COUNS 814	Professional, Ethical and Legal Issues in Counseling Psychology	3
ED PSY 710	Child and Adolescent Mental Health Issues in Schools	3
ED PSY 732	Cognitive Behavioral Intervention Strategies in Education	3
ED PSY 751	Professional and Historical Issues in School Psychology	3

ED PSY 755	Cognitive Assessment: School Age Children	4
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ED PSY 760	Academic Intervention and Alternative Assessment	3
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ED PSY 851	Assessment and Interventions: Personality, Social and Emotional Functioning	3
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ED PSY 952	Pediatric Psychology in Urban Settings	3
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ED PSY 955	Advanced Therapeutic Interventions	3
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ED PSY 959	Seminar in School Psychology:	3
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ED PSY 974	Beginning Practicum in School Psychology	4
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ED PSY 975	Advanced Practicum in School Psychology	4
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ED PSY 977	Advanced Practicum in Intervention (2 semesters)	5
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ED PSY 978	Advanced Practicum in Supervision (2 semesters)	5
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ED PSY 986	Doctoral Internship in School Psychology	6
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Applied Research Methods and Practicum

ED PSY 790	Research or Thesis	3
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Complete multiple semesters: 6-12

ED PSY 838	Research Practicum in Educational Psychology	
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To completion of degree:

ED PSY 990	Research or Thesis	
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**Total Credits 104-110**

In addition to the requirements listed below, please refer to the program handbook.

## Additional Requirements

### Advising and the Major Professor

Upon admission to the doctoral program in Educational Psychology, students are assigned a temporary advisor in their area of emphasis (e.g., Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology). This person is available to discuss initial course selection and provide general advice about the program. After beginning the program and before filing a Student Academic Plan, students should seek a Major Professor. The permanent Major Professor may—but does not have to be—the same person who is the temporary advisor. Students must select an advisor in their area of emphasis. Selection of a Major Professor is by mutual consent between the student and the faculty member. Students should notify the Training Director within their emphasis when the Major Professor has been selected.

### Residence

The student must meet minimum Graduate School residence requirements (<http://uwm.edu/graduateschool/doctoral-requirements/#residence>) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters.

## Practicum

Students are required to complete practicum requirements to become licensed.

## Internship

Following Practicum, students are required to complete a year-long internship in order to be licensed.

## Publishable Paper

Students are required to work with faculty to have a “publishable” paper within 30 credits after admission to the program. It may be a collaborative effort, such as publishing a chapter or article with a faculty advisor or other faculty collaborator.

## Minor

A minor is an option. Students interested in a minor should contact their Major Professor.

## Master's Degree

Students may apply to receive the master's degree upon completion of 30 credits.

## Doctoral Preliminary Examination

The Doctoral Preliminary Examination is taken at the end of a student's coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student's specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student's Preliminary Examination.

## Proposal Hearing

A doctoral student qualifies as a “doctoral candidate” upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the PhD degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Major Professor. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

## Dissertation Defense

The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

## Exit Requirements

Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the PhD in Educational Psychology.

## Time Limit

It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All

requirements MUST be completed within ten years from the date of initial enrollment.

# Educational Psychology, PhD: Cognitive and Developmental Sciences

This graduate-level program emphasizes the perspective of the learner in a broad range of learning contexts – from schools to museums to home – throughout the human lifespan. Students in our doctoral program work closely with faculty members (p. ) to conduct cutting-edge research in Human Development and/or Cognitive Science.

Graduates of the PhD program find jobs in education and/or research settings in the private or public sectors. Many graduates of our PhD program pursue careers at research institutes and universities.

## Educational Psychology PhD

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Cognitive and Developmental Sciences
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master's and doctoral level are accredited by the American Psychological Association (APA).

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Phone: (202) 336-5979  
E-mail: [apaaccred@apa.org](mailto:apaaccred@apa.org)  
Website: American Psychological Association Website (<https://accreditation.apa.org/>)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Optional: Submission of scores on the General Test portion of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>); test taken within last five years. GRE scores are not required for any program in educational psychology but may be submitted as supplemental material.
- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
- A letter outlining the applicant’s academic and professional background, declaration of Area of Concentration (Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the PhD program.
- Three letters of recommendation from individuals familiar with the applicant’s intellectual achievement and potential.
- Applicants to the Cognitive and Developmental Sciences, School Psychology, and Counseling Psychology concentrations must submit at least one sample of their academic writing. You may add additional materials that highlight your professional and/or academic skills.
- Applicants to the Educational Statistics and Measurement concentration must submit at least one sample of quantitative research/statistical analysis. You may add additional materials that highlight your professional and/or academic skills.
- For the concentrations in Counseling Psychology and School Psychology: a resume or curriculum vitae.
- Completion of the reason statement on the application.

ED PSY 640	Human Development: Theory and Research	3
<b>Electives</b>		
Select two of the following:		6
ED PSY 734	Contextual Determinants of Motivation	
ED PSY 735	Social Cognition in Educational Psychology	
ED PSY 741	Cognitive Development	
ED PSY 742	Personality Theories and the Educational Process	
ED PSY 743	Human Development: Study of Infancy and Early Childhood	
ED PSY 746	Human Development: Study of the Adolescent	
ED PSY 747	Human Development: Study of the Adult	
ED PSY 748	Oral Language, Cognition, and Literacy	
ED PSY 814	Cognition and Emotion: The Affective Components of Human Thought	
ED PSY 831	Cognition: Theory and Research	
ED PSY 833	Social Psychology of Group Differences: Race and Ethnicity	
ED PSY 834	The Psychology of Achievement Motivation	
ED PSY 844	The Multicultural Family	
ED PSY 845	Immigrant Child in Developmental Perspective	
<b>Research Core</b>		
ED PSY 624	Educational Statistical Methods I	3
ED PSY 724	Educational Statistical Methods II	4
Select from the following to meet the 15-credit minimum:		8
ED PSY 720	Techniques of Educational and Psychological Measurement	
ED PSY 728	Techniques of Educational Research	
ED PSY 820	Multiple Regression	
ED PSY 821	Psychometric Theory and Practice	
ED PSY 822	Item Response Theory	
ED PSY 823	Structural Equation Modeling	
ED PSY 824	Advanced Experimental Design and Analysis	
ED PSY 825	Multivariate Methods	
ED PSY 826	Analysis of Cross-Classified Categorical Data	
ED PSY 827	Survey Research Methods	
ED PSY 829	Instrument Development	
ED PSY 922	Seminar in Measurement and Evaluation:	
ED PSY 929	Seminar in Statistics and Research Design	
AD LDSP 729	Qualitative Research and Field Studies in Education Settings	

**Total Credits** **27**

## Credits and Courses

### Core Educational Psychology Requirements

All doctoral students are required to complete 27 core credits in the areas of Psychological Foundations and Research Methods. In many cases, students entering with a Master’s degree will have completed some of these courses. Courses taken during Master’s preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

**Psychological Foundations Core:** Students must take 12 credits minimum of psychological foundations (social, cognitive, affective, or biological basis of behavior).

**Research Methods Core:** 15 credits minimum.

All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete at least 15 credits of coursework in the area of research methods. All students must complete ED PSY 624 and ED PSY 724. Students must fulfill the remaining requirements by choosing from courses offered at the 700-level or above. Students should consult the specific requirements for their area of specialization for additional requirements, as the requirements for each area of specialization may exceed those specified here.

**Urban Foundations:** EDUC 701, Critical Issues in Urban Education, is recommended for the Cognitive and Developmental Sciences and Educational Statistics and Measurement specializations.

Code	Title	Credits
<b>Psychological Foundations Core</b>		
ED PSY 631	Cognition: Learning, Problem Solving and Thinking	3
or ED PSY 831	Cognition: Theory and Research	

## Core Concentration Requirements

All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

## Other Requirements

In addition to the requirements listed below, please refer to the program handbook for each concentration.

### Cognitive and Developmental Sciences Concentration

Code	Title	Credits
Select five of the following:		15
ED PSY 734	Contextual Determinants of Motivation	
ED PSY 735	Social Cognition in Educational Psychology	
ED PSY 741	Cognitive Development	
ED PSY 742	Personality Theories and the Educational Process	
ED PSY 743	Human Development: Study of Infancy and Early Childhood	
ED PSY 745	Human Development: Study of Middle Childhood	
ED PSY 746	Human Development: Study of the Adolescent	
ED PSY 747	Human Development: Study of the Adult	
ED PSY 831	Cognition: Theory and Research	
ED PSY 833	Social Psychology of Group Differences: Race and Ethnicity	
ED PSY 834	The Psychology of Achievement Motivation	
ED PSY 844	The Multicultural Family	
ED PSY 845	Immigrant Child in Developmental Perspective	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Advising and the Major Professor

Upon admission to the doctoral program in Educational Psychology, students are assigned an advisor in their area of emphasis (e.g., Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology). This person is available to discuss course selection and provide general advice about the program. Selection of an advisor is by mutual consent between the student and faculty member; changes in advisor will follow Graduate School guidelines. Requests for a change in advisor can occur in consultation with the advisor, program chair, and/or graduate representative.

### Residence

The student must meet minimum Graduate School residence requirements (<http://uwm.edu/graduateschool/doctoral-requirements/#residence>) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master's level.

### Practicum

Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

### Internship

Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

### Minor

A minor is optional. Students should consult with their advisor.

### Doctoral Preliminary Examination

The Doctoral Preliminary Examination is taken at the end of a student's coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student's specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student's Preliminary Examination.

### Proposal Hearing

A doctoral student qualifies as a "doctoral candidate" upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the PhD degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

### Dissertation Defense

The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

### Exit Requirements

Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the PhD in Educational Psychology.

### Time Limit

It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

## Educational Psychology, PhD: Counseling Psychology

UWM's PhD specialization in Counseling Psychology follows a scientist-practitioner model that integrates theory, practice and research to give you the scientific knowledge and skills needed to work with multicultural urban populations and in diverse settings.



Our PhD students are expected to conduct research and to advance the science of counseling psychology through scholarly inquiry. Our program, which is accredited by the American Psychological Association\*, will prepare you to work as a counseling psychologist in a variety of settings, including universities, hospitals, mental health clinics and private practice.

## Educational Psychology PhD

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Cognitive and Developmental Sciences
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master's and doctoral level are accredited by the American Psychological Association (APA).

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 Phone: (202) 336-5979  
 E-mail: [apaaccred@apa.org](mailto:apaaccred@apa.org)  
 Website: American Psychological Association Website (<https://accreditation.apa.org/>)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Optional: Submission of scores on the General Test portion of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>); test taken within last five years. GRE scores are not required for any program in educational psychology but may be submitted as supplemental material.
- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
- A letter outlining the applicant's academic and professional background, declaration of Area of Concentration (Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the PhD program.

- Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential.
- Applicants to the Cognitive and Developmental Sciences, School Psychology, and Counseling Psychology concentrations must submit at least one sample of their academic writing. You may add additional materials that highlight your professional and/or academic skills.
- Applicants to the Educational Statistics and Measurement concentration must submit at least one sample of quantitative research/statistical analysis. You may add additional materials that highlight your professional and/or academic skills.
- For the concentrations in Counseling Psychology and School Psychology: a resume or curriculum vitae.
- Completion of the reason statement on the application.

## Credits and Courses

### Core Educational Psychology Requirements

All doctoral students are required to complete 43-46 core credits in the areas of Discipline-Specific Knowledge and Research Methods. In many cases, students entering with a Master's degree will have completed some of these courses. Courses taken during Master's preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

**Discipline-Specific Knowledge:** Students must take 18-21 credits minimum of discipline-specific knowledge (history and systems of psychology, foundations of science, integration).

**Research Methods Core:** Up to 25 credits; students can do an additional 9 credits for an Educational Statistics and Measurement minor.

All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete 13 credits of coursework in the area of research methods at the 700 level or above, including ED PSY 724, and six credits at the 800 level or above.

Code	Title	Credits
<b>Discipline-Specific Knowledge</b>		
<i>Category 1: History and Systems of Psychology</i>		
PSYCH 550	History of Psychology	3
<i>Category 2: Foundations of Science</i>		
<i>Biological Basis of Behavior (choose one):</i>		3
PSYCH 727	Cognitive Neuroscience	
PSYCH 854	Behavioral Neuroscience	
<i>Cognitive Basis of Behavior</i>		
ED PSY 631	Cognition: Learning, Problem Solving and Thinking	3
<i>Developmental Basis of Behavior</i>		
ED PSY 640	Human Development: Theory and Research	3
<i>Affective Basis of Behavior</i>		
ED PSY 814	Cognition and Emotion: The Affective Components of Human Thought	3
<i>Social Bases of Behavior (choose one)</i>		
ED PSY 833	Social Psychology of Group Differences: Race and Ethnicity	
PSYCH 930	Seminar in Social Psychology	

ED PSY 735	Social Cognition in Educational Psychology	
<i>Category 3: Advanced Integration (choose one)</i>		3
ED PSY 814	Cognition and Emotion: The Affective Components of Human Thought	
PSYCH 727	Cognitive Neuroscience	
<b>Research Methods Core</b>		
ED PSY 724	Educational Statistical Methods II	4
ED PSY 728	Techniques of Educational Research	3
ED PSY 838	Research Practicum in Educational Psychology (4 semesters)	12
Choose two from the following:		6
ED PSY 720	Techniques of Educational and Psychological Measurement	
ED PSY 820	Multiple Regression	
ED PSY 821	Psychometric Theory and Practice	
ED PSY 822	Item Response Theory	
ED PSY 823	Structural Equation Modeling	
ED PSY 824	Advanced Experimental Design and Analysis	
ED PSY 825	Multivariate Methods	
ED PSY 826	Analysis of Cross-Classified Categorical Data	
ED PSY 827	Survey Research Methods	
ED PSY 829	Instrument Development	
ED PSY 922	Seminar in Measurement and Evaluation:	
ED PSY 929	Seminar in Statistics and Research Design	
AD LDSP 729	Qualitative Research and Field Studies in Education Settings	
<b>Counseling Psychology Concentration: Profession-Wide Competencies</b>		
COUNS 803	Vocational Psychology	3
COUNS 807	Advanced Counseling Strategies:	3
COUNS 814	Professional, Ethical and Legal Issues in Counseling Psychology	3
COUNS 815	Advanced Multicultural Counseling	3
COUNS 840	Psychological Assessment	3
COUNS 860	Capstone-Research in Counseling Psychology	3
COUNS 917	Supervision of Counseling	3
COUNS 975	Doctoral Practicum in Counseling 3 (2 semesters)	6
COUNS 976	Doctoral Practicum in Counseling 4 (2 semesters)	6
COUNS 977	Advanced Doctoral Practicum in Counseling 5 (2 semesters)	6
<b>Total Credits</b>		<b>85</b>

### Core Concentration Requirements

All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

### Other Requirements

In addition to the requirements listed below, please refer to the program handbook for each concentration.

### Students Entering Without a Master's

For the Counseling Psychology concentration, students entering without a Master's degree in Counseling must also complete the following in order to meet accreditation/certification requirements:

Code	Title	Credits
ED PSY 624	Educational Statistical Methods I	3
ED PSY 720	Techniques of Educational and Psychological Measurement	3
COUNS 714	Essentials of Counseling Practice	3
COUNS 715	Multicultural Counseling	3
COUNS 751	Multicultural Considerations in Lifespan Psychopathology	3
COUNS 774	Trauma Counseling I: Theory and Research	3
COUNS 800	Group Counseling Theory	3
COUNS 975	Doctoral Practicum in Counseling 3	3
COUNS 976	Doctoral Practicum in Counseling 4	3
COUNS 977	Advanced Doctoral Practicum in Counseling 5	3

## Additional Requirements

### Advising and the Major Professor

Upon admission to the doctoral program in Educational Psychology, students are assigned an advisor in their area of emphasis (e.g., Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology). This person is available to discuss course selection and provide general advice about the program. Selection of an advisor is by mutual consent between the student and faculty member; changes in advisor will follow Graduate School guidelines. Requests for a change in advisor can occur in consultation with the advisor, program chair, and/or graduate representative.

### Residence

The student must meet minimum Graduate School residence requirements (<http://uwm.edu/graduateschool/doctoral-requirements/#residence>) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master's level.

### Practicum

Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

### Internship

Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

### Minor

A minor is optional. Students should consult with their advisor.

## Doctoral Preliminary Examination

The Doctoral Preliminary Examination is taken at the end of a student's coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student's specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student's Preliminary Examination.

## Proposal Hearing

A doctoral student qualifies as a "doctoral candidate" upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the PhD degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

## Dissertation Defense

The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

## Exit Requirements

Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the PhD in Educational Psychology.

## Time Limit

It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

# Educational Psychology, PhD: Educational Statistics and Measurement

This program is designed to provide you with the knowledge and experience necessary to research existing analytical techniques, as well as to develop and apply new methodologies in educational measurement and statistics. After completing your doctoral studies, you'll be ready to independently conduct quantitative data analyses; construct measurement instruments; translate sophisticated research findings; replicate research studies; contribute to the theory of research methodology; and teach basic courses in measurement, statistics, and research design.

## Why Choose Our PhD Program?

You'll be taught and mentored by faculty who specialize in this field, and you'll learn about:

- Procedures to develop and/or apply psychometric methods including classical test theory, generalizability theory, item response theory, and computer adaptive testing.
- Procedures to develop and/or apply quantitative methods and statistical models, including traditional general linear models (regression, ANOVA, and their extensions) and more modern methods such as multivariate analyses, categorical data analysis, and multilevel data modeling.

## Doctoral Minor

Doctoral students in other areas can also add a minor in Educational Statistics and Measurement. If you take 9 credits of courses in the ESM area, in addition to any courses that are required by your degree program, then a minor in ESM will be noted on your transcript. A minor in ESM will strengthen your quantitative research skills, which are valued by many employers.

## Educational Psychology PhD

The goal of the Doctor of Philosophy in Educational Psychology is to prepare psychologists, researchers and educational professionals to effectively work on the unique challenges of promoting education, learning, and mental health in urban environments. The four areas of emphasis in the doctoral program are:

- Counseling Psychology
- Cognitive and Developmental Sciences
- Educational Statistics and Measurement
- School Psychology

See the Educational Psychology Website (<https://uwm.edu/education/academics/educational-psychology-department/>) for more information on these areas.

The Counseling Psychology and School Psychology specializations at the master's and doctoral level are accredited by the American Psychological Association (APA).

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Website: American Psychological Association Website (<https://accreditation.apa.org/>)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

To be considered for admission to the program applicants must complete the Graduate School online application, and satisfy all UWM Graduate School admission requirements in addition to the following program requirements:

- Optional: Submission of scores on the General Test portion of the Graduate Record Examination (<http://uwm.edu/graduateschool/>)

admission/#gre); test taken within last five years. GRE scores are not required for any program in educational psychology but may be submitted as supplemental material.

- Undergraduate GPA of at least 3.0; graduate GPA of at least 3.5 required.
- A letter outlining the applicant's academic and professional background, declaration of Area of Concentration (Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology) as well as specific research interests and goals for the PhD program.
- Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential.
- Applicants to the Cognitive and Developmental Sciences, School Psychology, and Counseling Psychology concentrations must submit at least one sample of their academic writing. You may add additional materials that highlight your professional and/or academic skills.
- Applicants to the Educational Statistics and Measurement concentration must submit at least one sample of quantitative research/statistical analysis. You may add additional materials that highlight your professional and/or academic skills.
- For the concentrations in Counseling Psychology and School Psychology: a resume or curriculum vitae.
- Completion of the reason statement on the application.

## Credits and Courses

### Core Educational Psychology Requirements

All doctoral students are required to complete 27 core credits in the areas of Psychological Foundations and Research Methods. In many cases, students entering with a Master's degree will have completed some of these courses. Courses taken during Master's preparation may be counted in meeting the core requirements. Elective credits are taken in consultation with the major professor.

**Psychological Foundations Core:** Students must take 12 credits minimum of psychological foundations (social, cognitive, affective, or biological basis of behavior).

**Research Methods Core:** 15 credits minimum.

All doctoral students must show documentation that they have acquired research skills needed for dissertation work. To fulfill this requirement students must successfully complete at least 15 credits of coursework in the area of research methods. All students must complete ED PSY 624 and ED PSY 724. Students must fulfill the remaining requirements by choosing from courses offered at the 700-level or above. Students should consult the specific requirements for their area of specialization for additional requirements, as the requirements for each area of specialization may exceed those specified here.

**Urban Foundations:** EDUC 701, Critical Issues in Urban Education, is recommended for the Cognitive and Developmental Sciences and Educational Statistics and Measurement specializations.

Code	Title	Credits
<b>Psychological Foundations Core</b>		
ED PSY 631	Cognition: Learning, Problem Solving and Thinking	3
or ED PSY 831	Cognition: Theory and Research	
ED PSY 640	Human Development: Theory and Research	3

<b>Electives</b>		
Select two of the following: 6		
ED PSY 734	Contextual Determinants of Motivation	
ED PSY 735	Social Cognition in Educational Psychology	
ED PSY 741	Cognitive Development	
ED PSY 742	Personality Theories and the Educational Process	
ED PSY 743	Human Development: Study of Infancy and Early Childhood	
ED PSY 746	Human Development: Study of the Adolescent	
ED PSY 747	Human Development: Study of the Adult	
ED PSY 748	Oral Language, Cognition, and Literacy	
ED PSY 814	Cognition and Emotion: The Affective Components of Human Thought	
ED PSY 831	Cognition: Theory and Research	
ED PSY 833	Social Psychology of Group Differences: Race and Ethnicity	
ED PSY 834	The Psychology of Achievement Motivation	
ED PSY 844	The Multicultural Family	
ED PSY 845	Immigrant Child in Developmental Perspective	
<b>Research Core</b>		
ED PSY 624	Educational Statistical Methods I	3
ED PSY 724	Educational Statistical Methods II	4
Select from the following to meet the 15-credit minimum: 8		
ED PSY 720	Techniques of Educational and Psychological Measurement	
ED PSY 728	Techniques of Educational Research	
ED PSY 820	Multiple Regression	
ED PSY 821	Psychometric Theory and Practice	
ED PSY 822	Item Response Theory	
ED PSY 823	Structural Equation Modeling	
ED PSY 824	Advanced Experimental Design and Analysis	
ED PSY 825	Multivariate Methods	
ED PSY 826	Analysis of Cross-Classified Categorical Data	
ED PSY 827	Survey Research Methods	
ED PSY 829	Instrument Development	
ED PSY 922	Seminar in Measurement and Evaluation:	
ED PSY 929	Seminar in Statistics and Research Design	
AD LDSP 729	Qualitative Research and Field Studies in Education Settings	

**Total Credits** 27

## Core Concentration Requirements

All students must complete core courses in their area of concentration. Minimum credit requirements vary with the area of concentration due to accreditation and certification requirements.

## Other Requirements

In addition to the requirements listed below, please refer to the program handbook for each concentration.

### Educational Statistics and Measurement Concentration

Code	Title	Credits
Select 8 of the following:		24
ED PSY 720	Techniques of Educational and Psychological Measurement	
ED PSY 728	Techniques of Educational Research	
ED PSY 820	Multiple Regression	
ED PSY 821	Psychometric Theory and Practice	
ED PSY 822	Item Response Theory	
ED PSY 823	Structural Equation Modeling	
ED PSY 824	Advanced Experimental Design and Analysis	
ED PSY 825	Multivariate Methods	
ED PSY 826	Analysis of Cross-Classified Categorical Data	
ED PSY 827	Survey Research Methods	
ED PSY 829	Instrument Development	
ED PSY 922	Seminar in Measurement and Evaluation:	
ED PSY 929	Seminar in Statistics and Research Design	
<b>Total Credits</b>		<b>24</b>

## Additional Requirements

### Advising and the Major Professor

Upon admission to the doctoral program in Educational Psychology, students are assigned an advisor in their area of emphasis (e.g., Counseling Psychology, Cognitive and Developmental Sciences, Educational Statistics and Measurement, or School Psychology). This person is available to discuss course selection and provide general advice about the program. Selection of an advisor is by mutual consent between the student and faculty member; changes in advisor will follow Graduate School guidelines. Requests for a change in advisor can occur in consultation with the advisor, program chair, and/or graduate representative.

### Residence

The student must meet minimum Graduate School residence requirements (<http://uwm.edu/graduateschool/doctoral-requirements/#residence>) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master's level.

### Practicum

Students in the Counseling Psychology and School Psychology concentrations are required to complete practicum requirements to become licensed.

### Internship

Following Practicum, students in the Counseling Psychology and School Psychology concentrations are required to complete a year-long internship in order to be licensed.

### Minor

A minor is optional. Students should consult with their advisor.

### Doctoral Preliminary Examination

The Doctoral Preliminary Examination is taken at the end of a student's coursework. A description of the Preliminary Examination is provided in the doctoral handbook corresponding to the student's specialization area within Educational Psychology.

The Preliminary Examination consists of a written component and, in some specializations, an oral component. The purpose of the Preliminary Examination is to determine whether the student demonstrates understanding of coursework and related bodies of knowledge and is qualified to proceed with dissertation planning. A minimum of three faculty members in the specialization area shall participate on a student's Preliminary Examination.

### Proposal Hearing

A doctoral student qualifies as a "doctoral candidate" upon completion of the doctoral Student Academic Plan, successful completion of the Doctoral Preliminary Examination for the PhD degree, and successfully passing a dissertation proposal hearing. The hearing is open and the date, time and location must be announced by the Doctoral Coordinator. Each member of the committee must sign the doctoral dissertation proposal hearing form, and indicate approval or disapproval. A simple majority of all committee members is required. No absentee ballots are acceptable.

### Dissertation Defense

The candidate must write a dissertation that demonstrates the ability to pursue independent research. The candidate must pass an oral exam in defense of the dissertation.

### Exit Requirements

Contingent upon satisfactory completion of program requirements, passage of the preliminary qualifying examination, and successful oral defense of the dissertation, the Chair of the Department of Educational Psychology will give final approval of the PhD in Educational Psychology.

### Time Limit

It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

## Multicultural Knowledge of Mental Health Practices, Graduate Certificate

*As of Spring 2017, the Multicultural Knowledge of Mental Health Practices certificate has suspended admission. This means that unless you have been accepted into this certificate program prior to Spring 2017, you will not be able to earn the certificate. The following information is provided solely for the benefit of students accepted into the Multicultural Knowledge of Mental Health Practices certificate prior to Spring 2017.*

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

A graduate GPA of at least 3.0 or concurrent enrollment in a graduate degree program with a GPA of at least 3.0 is required for admission.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
COUNS 704	Multicultural Mental Health Guidelines and Ethics Overview	3
COUNS 705	Multicultural Practice: Awareness and Knowledge of Others	3
Select three of the following:		9
COUNS 740	Multicultural Mental Health Guidelines for Working with Latinos	
COUNS 741	Multicultural Mental Health Guidelines for Working with LGBT Individuals	
COUNS 742	Multicultural Health Guidelines for Working with Asian Americans	
COUNS 743	Multicultural Mental Health Guidelines for Working with African Americans	
COUNS 744	Multicultural Mental Health Guidelines, Working with First Nations Persons	
COUNS 745	Multicultural Mental Health Guidelines for Working with Men	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Exit Requirements

To earn the certificate, students must complete all certificate courses with a grade of B or better. No Incomplete (I) grades will be given.

### Transfer Credit

No credits may be taken at an institution other than UWM.

## Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## School Counseling, Graduate Certificate

The School Counseling Certificate program is provided for students who already possess a master's degree and need to meet the course requirements for certification as a K-12 School Counselor, as listed below. Courses can be waived if equivalent courses have already been completed, as determined by consultation with an advisor. The requirements for this certification program meet the certification standards of the Wisconsin Department of Public Instruction. For more information on the School Counseling: Initial Educator: K-12, five-year license, please see the Wisconsin Department of Public Instruction Website (<http://www.dpi.state.wi.us/>).

In order to be eligible to receive an initial educator license as a school counselor, students will need to:

1. Complete the coursework and practica in the requirements
2. Pass the national Praxis II licensing examination

Other states have different licensing standards and if you are interested in being eligible for a different state you are strongly encouraged to contact that state's Department of Public Instruction to ascertain whether additional requirements are necessary.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

In order to successfully complete the certification sequence, a student must be accepted into the School Counseling Post-Master's Certificate Program. To be considered, applicants must have a graduate GPA of 3.0 or better and must complete the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>), including the reason statement.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Students will need to complete the following sequence of courses from the Counseling Core and the School Core, or have equivalent previous coursework, as determined in consultation with an advisor.

Code	Title	Credits
<b>Counseling Core</b>		
COUNS 710	Counseling: Theory and Issues	3
COUNS 711	Foundations in Career Development	3
COUNS 714	Essentials of Counseling Practice	3
COUNS 715	Multicultural Counseling	3
COUNS 774	Trauma Counseling I: Theory and Research	3
COUNS 800	Group Counseling Theory	3
COUNS 904	Family Systems Theory, Research, and Practice	3
<b>School Core</b>		
COUNS 602	Introduction to School Counseling	3
COUNS 764	Supervised Practicum 1 in School Counseling	3
COUNS 810	Counseling in the Schools	3
COUNS 816	Counseling Children and Adolescents	3
COUNS 968	Supervised Practicum 2 in School Counseling	3
<b>Total Credits</b>		<b>36</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## School Psychology, EdS

This program will prepare you to work as a school psychologist and leads to certification from the Wisconsin Department of Public Instruction. As part of the EdS degree requirements, students will complete 600 hours of practicum and 1,200 hours of internship. Based on a scientist-practitioner model and coursework in educational psychology and complementary disciplines, our program emphasizes a concrete link between theory, research and practice through core applied courses and supervised practical and internships. The EdS program is approved by the National Association of School Psychologists.

Upon completion of the master's degree in Educational Psychology (School Psychology concentration), the student will be considered for the Education Specialist Degree program in School Psychology. The student must file an application for the EdS with the Graduate School. Admission to the EdS program is dependent upon successful completion of master's degree requirements. Students who are not admitted into

the Education Specialist Degree program are not eligible for school psychology certification.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

Code	Title	Credits
<b>Advanced Professional and Clinical Practice</b>		
ED PSY 710	Child and Adolescent Mental Health Issues in Schools	3
ED PSY 732	Cognitive Behavioral Intervention Strategies in Education	3
ED PSY 955	Advanced Therapeutic Interventions	3
ED PSY 959	Seminar in School Psychology	3
ED PSY 974	Beginning Practicum in School Psychology	6
ED PSY 975	Advanced Practicum in School Psychology	6
ED PSY 976	MS Internship in School Psychology (retakeable for 8 credits total)	8
<i>Choose one from either of the following two categories:</i>		3-4
<b>Development, Learning &amp; Cognition</b>		
ED PSY 631	Cognition: Learning, Problem Solving and Thinking (or other course chosen in consultation with advisor)	
ED PSY 734	Contextual Determinants of Motivation	
ED PSY 735	Social Cognition in Educational Psychology	
ED PSY 845	Immigrant Child in Developmental Perspective	
<b>Educational Statistics and Measurement</b>		
ED PSY 624	Educational Statistical Methods I	
ED PSY 720	Techniques of Educational and Psychological Measurement	
ED PSY 724	Educational Statistical Methods II	
<b>Educational Foundations</b>		
Choose one:		3
AD LDSP 777	Leadership in Multicultural Organizations	
CURRINS 612	Collaborations for Teachers with Families, Schools, and Communities	
CURRINS 650	Reading Interests of Adolescents	
EXCEDUC 715	Issues and Trends in Exceptional Education	
Or other course chosen in consultation with advisor		
<b>Total Credits</b>		<b>38-39</b>

## Additional Requirements

### Education Specialist Final Project

Upon completion of all course work, including practicum, students will demonstrate their professional knowledge by completing a Education Specialist Final Project. The Final Project will demonstrate the student's knowledge and proficiency in a clinical area such as innovative assessment practices, consultation, psychosocial therapy, or behavioral/academic intervention planning. Students will demonstrate their knowledge and proficiency by successfully completing one of the following projects:

- Produce a video recording showing a consultation session with a consultee
- Produce a video recording of a therapy session with a child or adolescent
- Develop a treatment manual for reducing psychosocial, behavioral or academic problems in children or adolescents
- Develop a parenting program for families with difficult or at-risk children
- Develop materials for an in-service program for teachers or parents (i.e., power point presentation, overheads, or manual)
- Develop a school-wide prevention program for at-risk students
- Develop an innovative assessment program for reducing academic, behavioral and/or psychosocial problems
- Conduct and produce a comprehensive intervention (social-emotional, academic) report

The Education Specialist Final Projects are due at the end of the internship. Projects will be judged to be acceptable by the school psychology faculty in charge of the internship and the student's advisor. Recommendations for satisfactory completion of all of the Education Specialist degree requirements will be made by the student's advisor, and will be forwarded to the department chair.

### Certification as a School Psychologist

Students completing the MS concentration and the EdS in School Psychology are eligible for certification as a School Psychologist in the State of Wisconsin. School Psychologists are eligible and encouraged to obtain National Certification as a School Psychologist (NCSP) by taking the national certification examination.

## Trauma Informed Care, Graduate Certificate (School of Education, Department of Educational Psychology)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for



specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

### Credits and Courses

All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

Code	Title	Credits
<b>Core</b>		
SOC WRK/COUNS/NURS/OCCTHPY 774	Trauma Counseling I: Theory and Research	3
SOC WRK/COUNS/NURS/OCCTHPY 775	Trauma Counseling II: Diagnosis and Treatment	3
<b>Electives</b>		
Select 9 elective credits (see Potential Electives and Recommended Field Work lists below)		9
<i>Recommended Field Work</i>		
Select 3-6 credits from the following: <sup>1</sup>		
SOC WRK 721	Field Instruction I	
SOC WRK 722	Field Instruction II	
SOC WRK 821	Field Instruction III	
SOC WRK 822	Field Instruction IV	
SOC WRK 921	Field Instruction V	
COUNS 764	Supervised Practicum 1 in School Counseling	
COUNS 765	Supervised Practicum 1 in Clinical Mental Health Counseling	
NURS 899	Practicum in Nursing:	
OCCTHPY 725	Occupational Therapy Field Service I	
OCCTHPY 735	Occupational Therapy Field Service II	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in in trauma-informed practice field settings, contingent on the respective department’s field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational

Psychology, Nursing, and Rehabilitation Sciences & Technology—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

### Potential Electives

Code	Title	Credits
SOC WRK/CRM JST 497	Study Abroad: (Bristol or South Africa or Austria)	1-6
SOC WRK 680G	Death and Dying	3
SOC WRK 690G	Mindfulness and Community Building	3
SOC WRK 753	Adult Psychopathology	3
SOC WRK 754	Child and Adolescent Psychopathology	3
SOC WRK 791	Current Topics in Social Work: (subtopic: Technology in Social Work Practice)	3
SOC WRK 818	Treatment of Co-Occurring Disorders	3
SOC WRK 820	Seminar in Social Work Practice: (Qualifying topics: Violent & Traumatized Families; Motivational Interviewing; or Interventions for Substance Misuse and Screening Brief Intervention and Referral to Treatment for Substance Misuse)	3
PSYCH 711	Current Topics in Psychology: (Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning & Memory)	1-4
PSYCH 727	Cognitive Neuroscience	3
MSP 770	Conflict Analysis and Restorative Practices	3
COUNS 704 & COUNS 705	Multicultural Mental Health Guidelines and Ethics Overview and Multicultural Practice: Awareness and Knowledge of Others <sup>1</sup>	6
COUNS 715	Multicultural Counseling	3
COUNS 744	Multicultural Mental Health Guidelines, Working with First Nations Persons	3
COUNS 812	Clinical Studies in Counseling	3
COUNS 816	Counseling Children and Adolescents	3
COUNS 820	Counseling Appraisal and Clinical Decision-Making	3
COUNS 904	Family Systems Theory, Research, and Practice	3
OCCTHPY 519	Therapeutic Communication	3
OCCTHPY 719	Occupational Therapy in Psychosocial Practice	3
CRM JST 830	Intervention Strategies for Correctional Clients	3
CRM JST 970	Readings in Criminal Justice Research: (Qualifying topics: Victimology; Women and the Criminal Justice System)	3

<sup>1</sup> COUNS 704 and COUNS 705 must be taken together to fulfill this requirement.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Teaching and Learning

The Department of Teaching and Learning offers programs for bachelor's, master's and doctoral degrees. We prepare teachers at the undergraduate and post-baccalaureate levels to work in settings serving culturally and linguistically diverse children. Our department features an American Sign Language Studies program, as well as training for interpreters of American Sign Language. We are committed to social justice, equity, and advocacy for children, youth, and families. We educate students to be effective, evidence-based practitioners and leaders, prepared to serve diverse communities situated locally, regionally, and globally.

At the undergraduate level, the department offers teacher education programs for Early Childhood (grades PK-3); Early Childhood Special Education (birth through grade 3); Elementary and Middle Education (grades K-9); English, Math, Science and Social Studies (grades 4-12); and Special Education, English as a Second Language, World Languages, and Bilingual Education Programs (K-12). The department offers American

Sign Language (ASL) Studies and an ASL interpreter training program at the undergraduate level. At the graduate level, the department offers Reading license programs; master's degrees in Curriculum and Instruction (with multiple, discipline-based specializations) and Exceptional Education (specializations include Autism Spectrum Disorders, Transition, and Assistive Technology/Accessible Design), and certificates in a wide variety of specialty areas. The Department also participates in the School-wide Urban Education Doctoral Program.

## Programs

- Advanced Study in Teaching and Learning, Graduate Certificate (p. 380)
- American Sign Language/English Interpreting, BS (p. 381)
- Applied Behavior Analysis (Online), Graduate Certificate (p. 383)
- Arts Integration and Learning, Undergraduate Certificate (School of Education, Department of Teaching and Learning) (p. 384)
- Assistive Technology and Accessible Design, Graduate Certificate (School of Education, Department of Teaching and Learning) (p. 385)
- Autism Spectrum Disorders, Graduate Certificate (p. 387)
- Autism Spectrum Disorders, Undergraduate Certificate (p. 388)
- Bilingual Education (Supplemental), Minor (p. 389)
- Curriculum and Instruction, MS (p. 390)
- Curriculum and Instruction, MS: Cultures and Communities Education (p. 390)
- Curriculum and Instruction, MS: Early Childhood Education (p. 391)
- Curriculum and Instruction, MS: English Education: Creative Writing (p. 392)
- Curriculum and Instruction, MS: English Education: Literature and Cultural Theory (p. 393)
- Curriculum and Instruction, MS: English Education: Media, Cinema, and Digital Studies (p. 394)
- Curriculum and Instruction, MS: English Education: Rhetoric and Professional Writing (p. 395)
- Curriculum and Instruction, MS: Mathematics Education (p. 396)
- Curriculum and Instruction, MS: Mathematics Teacher Leadership (p. 397)
- Curriculum and Instruction, MS: Reading Education (p. 398)
- Curriculum and Instruction, MS: Science Education (p. 399)
- Curriculum and Instruction, MS: Urban Social Studies (p. 400)
- Education, BS: Early Childhood (p. 401)
- Education, BS: Elementary and Middle Education, K-9 (p. 404)
- Education, BS: English and Language Arts, 4-12 Education (p. 407)
- Education, BS: English as a Second Language Education (p. 409)
- Education, BS: Inclusive Early Childhood Teacher Education (p. 412)
- Education, BS: Mathematics Education, Grades 4-12 (p. 414)
- Education, BS: Science Education, Grades 4-12 (p. 416)
- Education, BS: Social Studies Education (p. 419)
- Education, BS: World Language Education (p. 421)
- English as a Second Language Education, Minor (p. 427)
- Exceptional Education, BS: Early Adolescence - Adolescence (p. 428)
- Exceptional Education, BS: Early Childhood (p. 431)
- Exceptional Education, BS: K4-12 Special Education (p. 433)
- Exceptional Education, MS (p. 437)

- Global Educator, Graduate Certificate (p. 438)
- Global Educator, Undergraduate Certificate (p. 440)
- Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate (p. 440)
- Mathematics Teacher Leadership, Graduate Certificate (p. 442)
- Transition for Students with Disabilities, Graduate Certificate (p. 443)
- World Language Education, Minor (p. 444)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Barbara Bales	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Maggie Bartlett	Associate Professor	PhD	Arizona State University	✓	
Craig Berg	Professor	PhD	University of Iowa	✓	
Sara Bolster	Teaching Faculty I	EdD	Alverno College		
Jennifer Brownson	Lecturer	PhD	University of Wisconsin-Milwaukee	✓	
Sunny Brysch	Clinical Assistant Professor	MS	Augsburg University		
Pamela Conine	Clinical Professor	MS	University of Wisconsin-Milwaukee		
Elizabeth Daniel	Lecturer	MEd	Northern Arizona University		
Candance Doerr-Stevens	Associate Professor	PhD	University of Minnesota	✓	
Elizabeth Drame	Professor	PhD	Northwestern University	✓	
Catherine Giuntoli DuBois	Lecturer	MA	Ball State University		
Leanne Evans	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	
Nancy File	Professor	PhD	Purdue University		✓
Alison Ford	Associate Professor	PhD			✓
Chris Gwiazdowski	Senior Lecturer	MS			✓
Tania Habeck	Associate Professor	PhD	University of South Florida	✓	
Paul Haubrich	Associate Professor	PhD			✓
Jeffrey Hawkins	Associate Professor	EdD	University of San Francisco	✓	
Angel Hessel	Distinguished Lecturer & Teaching Faculty	MA	University of Wisconsin-Milwaukee		
Jean Hoffmann	Visiting Assistant Professor	MEd	University of Wisconsin-Green Bay		
DeAnn M. Huinker	Professor	EdD	University of Michigan	✓	
Mary Jett	Professor	PhD			✓
Tatiana Joseph	Assistant Professor	PhD	University of Wisconsin-Milwaukee	✓	
Sara Jozwik	Assistant Professor	EdD	Illinois State University	✓	
Henry Kepner	Professor	PhD			✓
Kristine Lize	Lecturer	PhD	Cardinal Stritch University	✓	
Hope Longwell-Grice	Associate Professor	PhD	University of Delaware		✓
Nouri Marrakchi	Teaching Faculty I	MA	University of Northern Colorado		
Anita Osvatic	Lecturer	MEd	University of Wisconsin-LaCrosse		
Amy Otis-Wilborn	Professor	PhD	University of Kansas		✓
Laura Owens	Professor	PhD	University of Wisconsin-Madison	✓	
Donna Pasternak	Professor	PhD	New York University		✓
Tracy Posnanski	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	
Linda Post	Associate Professor	PhD			✓
Marleen Pugach	Professor	PhD			✓
Nancy Rice	Professor	PhD	Syracuse University	✓	
Randall Ryder	Professor	PhD			✓
Ashley Schmidt	Assistant Professor	PhD	University of Central Florida		
Mark Schug	Professor	PhD			✓
Ray Scolavino	Distinguished Lecturer & Teaching Faculty	PhD	University of Wisconsin-Milwaukee	✓	

Tom Scott	Senior Lecturer	PhD	University of Wisconsin-Milwaukee	
Tara Serebin	Lecturer	MS	University of Wisconsin-Milwaukee	
Ruth Short	Associate Professor	PhD		✓
Cyrus Smith	Professor	PhD		✓
John Stewig	PhD	Professor		✓
Ryne Thorne	Lecturer	BS	University of Wisconsin-Milwaukee	
Crystasany Turner	Assistant Professor	PhD	University of Wisconsin-Milwaukee	
Erin Wiggins	Clinical Assistant Professor	MBA, MS	Temple University	
Judy Winn	Associate Professor	PhD		✓

## Advanced Study in Teaching and Learning, Graduate Certificate

This certificate provides individual teachers with the knowledge, skills, and research tools to make evidence-based claims as to their effectiveness in the classroom. The set of five, 3-credit graduate courses prepares professionals with the knowledge base needed to engage in data-driven, action research that draws from the use of formative, benchmark, and summative assessments and leads to effective upgrades in instruction. Certificate completers will be positioned to become school and district leaders having an integrated set of instruction, assessment, and research skills needed to advance student achievement levels in their respective disciplines.

Certificates of Advanced Study in Teaching and Learning may be earned in the following areas:

- Science
- Mathematics
- Reading
- Social Studies
- Interdisciplinary Studies
- English
- Literary Studies
- Adolescent Literature
- Children’s Literature
- Writing
- Second Language Acquisition

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants must have a bachelor’s degree with an undergraduate GPA of 2.75 or a graduate degree with a minimum 3.0 GPA. Applicants must also complete the reason statement in the application.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School

through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).

- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Five required, 3-credit, graduate-level courses. Total credits: 15.

Code	Title	Credits
<b>Course I</b>		
Select one of the following:		3
CURRINS 701	Curriculum Planning and Ideologies	
A curriculum elective in the disciplinary focus area		
<b>Course II</b>		
Select one graduate-level elective in the student’s disciplinary focus area		3
<b>Course III</b>		
Select one of the following discipline-specific advanced methods courses:		3
CURRINS 710	Curriculum for Early Adolescents	
CURRINS 721	Advanced Problems in the Teaching of Social Studies	
CURRINS 724	Advanced Problems in Science Education	
CURRINS 730	Mathematics in Elementary Education	
CURRINS 731	Mathematics in the Secondary School	
CURRINS 734	Advanced Problems in the Teaching of Foreign Languages	
CURRINS 746	Advanced Reading Education	
CURRINS 751	Language Arts in the Elementary School	
CURRINS 753	Teaching Language and Composition	
CURRINS 754	Teaching Literature	
Other courses as approved by the certificate program committee		
<b>Course IV</b>		
CURRINS/ED PSY 725	Improving Teaching and Learning with Classroom-Based Assessments	3
<b>Course V – Capstone</b>		
Select one of the following:		3

CURRINS 705 Research in Schools and Communities

A capstone elective in the disciplinary focus area

**Total Credits** 15

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. Transfer credits will be considered only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the first three courses that constitute the certificate program. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## American Sign Language/English Interpreting, BS

The American Sign Language/English Interpreting program goes beyond teaching students about language, culture and how to facilitate conversations. The program develops well-rounded interpreters who value and consider others' perspectives, and who are culturally sensitive and empathetic practitioners.

Interpreting is an exciting and in-demand career. In general, the interpreting and translation field is growing much faster than other occupations, and ASL interpreters are especially sought-after. Our Interpreting program is aligned with both state licenses, which offers graduates more options upon graduation in terms of employment.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Core

American Sign Language I-VI courses in the Department of Exceptional Education satisfy University foreign language requirements. For all programs that require American Sign Language, students with previous experience in American Sign Language can take the American Sign Language Proficiency Interview (ASLPI) to determine appropriate placement level. If a B or better is received on the ASLPI, credit will be received for courses up through ASL 4. Any individual who would like to take the ASLPI will be responsible for the cost of the assessment. Please call (414) 229-5251 for more information.

Code	Title	Credits
<b>Prior to Admission</b>		
EXCEDUC 301	American Sign Language I (With a grade of C or better)	3
EXCEDUC 302	American Sign Language II (With a grade of C or better)	3
EXCEDUC 303	American Sign Language III (With a grade of B- or better)	3
EXCEDUC 304	American Sign Language IV (With a grade of B- or better)	3
EXCEDUC 305	American Sign Language V (With a grade of B- or better)	3
EXCEDUC 306	American Sign Language VI (With a grade of B- or better)	3
EXCEDUC 320	Introduction to Interpreting: English to American Sign Language (With a grade of B- or better)	3
EXCEDUC 321	Introduction to Interpreting: American Sign Language to English (With a grade of B- or better)	3
EXCEDUC 325	ASL V Lab	1
EXCEDUC 326	ASL VI Lab	1
EXCEDUC 327	Classifiers Lab	1
EXCEDUC 328	Skills Development: ASL Depiction	1
EXCEDUC 348	Introduction to the Profession of Interpreting (With a grade of C or better)	3
EXCEDUC 352	American Deaf Culture (With a grade of C or better; GER-SS)	3
<b>Unsequenced</b>		
THEATRE 111	Theatre Games (GER-A)	3
COMMUN 103	Public Speaking (GER-HU)	3
EXCEDUC 330	Deaf History (GER-SS)	3
<b>Highly recommended:</b>		

LINGUIS 100	The Diversity of Human Language (GER-CD, HU)	3
LINGUIS 210	Power of Words (GER-CD, HU)	3
<b>Language and Licensure Requirements</b>		
ED PSY 330	Introduction to Learning and Development	3
EXCEDUC 300	The Exceptional Individual	3
EXCEDUC 510 or EXCEDUC 520	Classifiers ASL Literature	
<b>Total Credits</b>		<b>55</b>

## Admission to Program (p. 382)

### Professional Requirements

Code	Title	Credits
<b>Sequenced Courses</b>		
Students must have a grade of B- or better for the sequenced courses and a minimum 2.75 GPA in all professional coursework		
<i>Fall I</i>		
EXCEDUC 335	Educational Interpreting I	3
EXCEDUC 345	Foundations of English to ASL Interpreting	3
EXCEDUC 347	Foundations of ASL to English Interpreting	3
EXCEDUC 349	Field Work: Interacting in the Deaf Community I	3
EXCEDUC 358	ASL/English Linguistics I	3
<i>Spring I</i>		
EXCEDUC 336	Postsecondary Interpreting I	3
EXCEDUC 337	Video Relay Services Interpreting I	3
EXCEDUC 338	Introduction to Healthcare Interpreting	3
EXCEDUC 354	Field Work: Interacting in the Deaf Community II	3
EXCEDUC 363	ASL/English Linguistics II	3
EXCEDUC 371	Strategies for the National Interpreter Certification Exam	1
<i>Fall II</i>		
EXCEDUC 359	Fieldwork: Interacting in the Deaf Community III	3
EXCEDUC 365	Educational Interpreting II	3
EXCEDUC 366	Postsecondary Interpreting II	3
EXCEDUC 367	Video Relay Services Interpreting II	3
EXCEDUC 368	Medical and Mental Healthcare Interpreting	3
<i>Spring II</i>		
EXCEDUC 364	Fieldwork: Interacting in the Deaf Community IV (In one semester or split over two semesters)	12
<b>Total Credits</b>		<b>58</b>

### ASL/English Interpreting Major Completion Requirements

- Completion of all admission requirements, granted admission to the ITP, and completion of ITP professional course sequence;
- Completion of university GER requirements;

- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
- Completion of a minimum 120 degree credits; and
- Professional coursework minimum GPA of 2.75.

### Interpreter License Requirements

- Individuals must hold a license from the Department of Public Instruction or the Department of Safety and Professional Services in order to enter the interpreting profession in Wisconsin. Successful completion of proficiency exams is required for these licenses. Consult with your advisor for details.

## Advance to Major

### Program Admission Requirements

- EXCEDUC 348, Introduction to the Profession of Interpreting, with a grade of C or better;
- EXCEDUC 330, Deaf History (GER-SS), with a grade of C or better;
- EXCEDUC 352, American Deaf Culture, with a grade of C or better;
- EXCEDUC 301, EXCEDUC 302, EXCEDUC 303, EXCEDUC 304, EXCEDUC 305, and EXCEDUC 306, American Sign Language I-VI. ASL I-II with a grade of C or better; ASL III-VI with a grade of B- or better;
- EXCEDUC 320, Intro to Interpreting Skills: English to American Sign Language with a grade of B- or better;
- EXCEDUC 321, Intro to Interpreting Skills: American Sign Language to English with a grade of B- or better;
- 58 credits complete;
- Cumulative GPA of 2.5; and
- Completion of Screening Interview, which occurs after application is submitted.

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (<http://uw-milwaukee.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### Scheduling an Appointment

Office of Student Services

Enderis Hall, Room 209  
(414) 229-4721  
soeinfo@uwm.edu

## Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Applied Behavior Analysis (Online), Graduate Certificate

The Applied Behavior Analysis (ABA) Graduate Certificate (online) program is an Association for Behavior Analysis International (ABAI)-approved Verified Course Sequence (VCS) that prepares candidates to use applied behavior analysis with cultural humility. The program emphasizes social justice while addressing issues and trends in service delivery.

The ABA Graduate Certificate program includes 22 credits and 8 required courses that are completed fully online in a sequence that spans four semesters. Students rotate through the course sequence in a cohort model. Students may complete the stand-alone ABA certificate program, or students may complete the ABA certificate as part of a graduate degree program.

## Becoming a Board Certified Behavior Analyst (BCBA)

Board Certified Behavior Analysts (BCBAs) are board approved, graduate-level practitioners who deliver behavior-analytic services in a variety of fields including education, psychology, social work, business, health care, and other human service industries. The process for becoming a behavior analyst requires the successful completion of required coursework, experience hours, and a culminating certification exam. The certification process is overseen by the Association for Behavior Analysis International (ABAI) and the Behavior Analysis Certification Board (BACB). For details about becoming a BCBA, please see the following websites:

- Behavior Analysis Certification Board (BACB) (<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.bacb.com%2Fbcba%2F&data=05%7C01%7Ckorinek%40uwm.edu%7C9a4eccd95c8646a90d0408daf97271bc%7C0bca7ac3fcb64efd89eb6de97603cf21%7C0%7C0%7C638096567173726949%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ik1haWVl%7C3000%7C%7C%7C&sdata=AzGToeKPNzgwZqbHQIKLWHmwfkkP3DTkDd00sT0YMHl%3D&reserved=0>)
- Association for Behavior Analysis International (ABAI) (<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abainternational.org%2Fvcs%2Fbacb.aspx&data=05%7C01%7Ckorinek%40uwm.edu%7C9a4eccd95c8646a90d0408daf97271bc%7C0bca7ac3fcb64efd89eb6de97603cf21%7C0%7C0%7C638096567173726949%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ik1haWVl%7C3000%7C%7C%7C&sdata=xkOEWvqlrBkiok%2Bfrc0Njj8y5SXfxJdHe2DKg4g09rY%3D&reserved=0>)
- UW Milwaukee VCS Information (<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abainternational.org%2Fvcs%2Fdirectory%2Fcourse-sequence-information.aspx%3Fcsid%3Dff06f5aa-9ba4-ec11-81cf-000c29a8e632%26pid%3Dcf123412-977e-e711-80d6-000c292131e8%26cl%3D51891e9c-9d7e-e711-80d6-000c292131e8%26moi%3D175550000&data=05%7C01%7Ckorinek%40uwm.edu%7C9a4eccd95c8646a90d0408daf97271bc%7C0bca7ac3fcb64efd89eb6de97603cf21%7C0%7C0%7C638096567173726949%7CTWFpbGZsb3d8eyJWljojMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ik1haWVl%7C3000%7C%7C%7C&sdata=4Lgmsegl0A1oz61X8p1iaENejagVp1EDQtHSsDuSwY%3D&reserved=0>)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

A graduate degree or concurrent enrollment in a graduate degree program is required for admission. Applicants must also complete the reason statement in the application.

## Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The Applied Behavior Analysis, Graduate Certificate (online) is a verified course sequence approved by the Association for Behavior Analysis International (ABAI). The ABA Certificate prepares professionals for careers as behavior analysts dedicated to supporting those with behavioral health needs. The program is designed to establish fundamental intervention skills. There are 22 credits required.

Code	Title	Credits
<b>Required Courses</b>		
EXCEDUC 716	Ethics in Applied Behavior Analysis	3
EXCEDUC 718	Behavioral Assessment	3
EXCEDUC 720	Behavior Change	4
EXCEDUC 722		3
EXCEDUC 724	Personnel and Supervision in Applied Behavior Analysis	2
EXCEDUC 726	Racial Equity in Behavior Analysis	1
PSYCH 702	Applied Behavior Analysis	3
PSYCH 714		3
<b>Total Credits</b>		<b>22</b>

Completion of the program does not mean the students are board certified behavior analysts. They must independently complete fieldwork hours and pass the BCBA exam to be certified. Fieldwork hours and the BCBA exam are completed independently outside of the UWM certificate program and completion of these requirements are verified by the Behavior Analysis Certification Board and the Association for Behavior Analysis International and not by UWM.

## Additional Requirements

### Transfer Credit

Transfer credits will be considered only if the applicant can provide ample, acceptable evidence that the course taken is substantively the same as the one it is being substituted for and was completed within the last five years with a grade of B or better. The VCS Coordinator will make determinations of transferability. All decisions are final. The core group of classes, which must be taken at UWM, allow for up to four credits to be transferred via syllabus review and subsequent approval. Credits used should follow the graduate school rule for transfer credits.

## Grade Point Average Requirement

A minimum cumulative 3.00 graduate grade point average in ABA Certificate courses taken at UWM is required.

## Time Limit

Students pursuing an ABA Certificate without concurrent enrollment in another graduate degree program will have four years from initial enrollment in a certificate course to complete the certificate requirements. Students pursuing an ABA Certificate as part of a degree program will have the same time limit to complete the certificate requirements as they have for completing the degree program.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Arts Integration and Learning, Undergraduate Certificate (School of Education, Department of Teaching and Learning)

The Certificate in Arts Integration and Learning is a 15 credit, multidisciplinary program offered jointly by the Department of Art and Design in the Peck School of the Arts and the Department of Curriculum & Instruction in the School of Education.

This program is designed to give undergraduate and post baccalaureate students an understanding of best practices in arts integration with an emphasis on project based learning through students' capstone experience. The Certificate is for students in any teacher certification program at the University of Wisconsin-Milwaukee, but especially for Early Childhood Education; Middle Childhood/Early Adolescence Education; Art, Music, Dance, or Theatre Education students who wish to complement their major with an additional concentration in Arts Integration.

The Certificate in Arts Integration and Learning is also open to all students seeking a Bachelor's degree or post baccalaureate certification from UWM and to students who previously received a Bachelor's degree with teacher certification from UWM or any other accredited college or university. Additionally, the Certificate is open to non-degree students who have a strong interest in this area. Students completing the Certificate not in conjunction with a degree must be admitted to the



university as non-degree students and meet regular university admission requirements. Students completing the Certificate not in conjunction with a degree are not eligible for financial aid.

## Requirements

The Arts Integration and Learning Certificate consists of 15 credits. Students must achieve a grade point average of 2.5 or above in all courses counting towards the Certificate. Courses counting for the Certificate may not be taken on a credit/no credit basis.

Code	Title	Credits
<b>Teaching and Learning Course</b>		<b>3</b>
Choose one of the following:		
ART ED 227	Introduction to Art Education	
CURRINS 538	Literacy 3: Introduction to New Literacies	
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	
CURRINS 651	Literature for the Young Child	
<b>Electives</b>		<b>9</b>
ART 150	Multicultural America	
ART 306	Introduction to Community Art	
ART 402	Art and Design Workshop:	
ART ED 130	Multicultural Art and Visual Learning in Elementary Education	
ART ED 228	Learning Processes in Art Education	
CURRINS 400	Field Work in Curriculum and Instruction:	
CURRINS 547	Curricular Applications of the Internet	
CURRINS 579	Current Topics in Curriculum and Instruction:	
DANCE 219	Arts in Community Service	
DANCE 233	Improvisation for Dancemaking	
DANCE 420	Creating Dance in the Community	
DANCE 460	Teaching Dance in Community Settings	
FILM 150	Multicultural America	
MUS ED 260	Making Music Connections with Children	
THEATRE 111	Theatre Games	
THEATRE 204	Theatre and Social Change	
THEATRE 260	Storytelling:	
THEATRE 320		
THEATRE 448	How to be a Teaching Artist	
<b>Capstone Course</b>		<b>3</b>
ART ED 489 or CURRINS 500	Art Education Workshop: Workshop in Curriculum and Instruction:	
<b>Total Credits</b>		<b>15</b>

## Assistive Technology and Accessible Design, Graduate Certificate (School of Education, Department of Teaching and Learning)

The Certificate in Assistive Technology and Accessible Design is an interdisciplinary program designed to meet the demand for assistive technology and accessible design specialists. The School of Rehabilitation Sciences and Technology and the Communication Sciences and Disorders program in the College of Health Professions and Sciences, along with the Department of Teaching and Learning in the School of Education, collaborate on the course offerings and management. The certificate follows a model of prerequisite disability and technology basic knowledge, survey of the fields, assessment, intervention and leadership. Completion of the certificate will help prepare the students to sit for State and National certification examinations as Assistive Technology Specialists, Rehabilitation Engineering Technologist and Low Vision Specialist.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

#### Admission

Students interested in this certificate should contact one of the three sponsoring programs before enrolling in any certificate courses. Admission to the certificate requires evidence of a basic knowledge of disability and computer applications, evidence of an Undergraduate or Graduate course in anatomy and physiology equivalent to BIO SCI 201 with a grade of C or better (may be taken during first fall or spring semester enrolled depending when it is offered but will require special permission), an undergraduate GPA of at least 2.75 or a graduate GPA of at least 3.0.

### Credits and Courses

Generally, students in the health sciences and exceptional education will have sufficient coursework in disability related studies. Prerequisite evidence in disability related studies may be obtained at the

undergraduate level. One of the following is recommended to meet the computer applications requirement.

Code	Title	Credits
EXCEDUC 730	Assistive and Instructional Technology for Students with Disabilities	3
OCCTHPY 750	Computer Applications in Occupational Therapy Practice	3

The Certificate in Assistive Technology and Accessible Design requires completion of a minimum 15 credits as listed below. In special circumstances, the ATAD coordinator and advisory board may approve substitution of an equivalent Assessment or Intervention course relevant to assistive technology and adaptive design as appropriate.

Code	Title	Credits
<b>Introduction</b>		
OCCTHPY 620	Introduction to Assistive and Rehabilitation Technology (must be taken at graduate level) <sup>1</sup>	3
<b>Assessment</b>		
Select one of the following:		3
EXCEDUC 765	Assistive Technology Service Delivery in Schools	
COMSDIS 715	Assessment and Intervention in Augmentative and Alternative Communication	
OCCTHPY 770	Assessment in Assistive Technology and Accessible Design	
OCCTHPY 742	Single Case Experimental Design	
<b>Intervention<sup>2</sup></b>		
Select one of the following:		3
OCCTHPY 625	Design and Disability	
OCCTHPY 595	Vision I: Introduction to Low Vision & Visual Impairment	
OCCTHPY 596	Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention	
OCCTHPY 593	Introduction to Biomedical and Rehabilitation Instrumentation	
OCCTHPY 999	Advanced Independent Study	
EXCEDUC 735	Technology & Instruction for Students with Disabilities	
EXCEDUC/OCCTHPY 777	Fieldwork in Assistive Technology	
EXCEDUC 799	Independent Reading	
COMSDIS 717	Special Populations in Communication Disorders	
COMSDIS 791	Research Experience in Communication Sciences and Disorders	
COMSDIS 799	Independent Studies	
<b>Elective</b>		
Select an additional 3 credits from either Assessment or Intervention list		3
<b>Capstone</b>		

OCCTHPY 760	Assistive and Rehabilitation Technology	3
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Alternate related graduate-level course can substitute if this course has been completed on an undergraduate level.

<sup>2</sup> Any U/G course must be taken at graduate level.

## Additional Requirements

### Minimum Grade Requirement

To be awarded the certificate, students must earn a minimum grade of B- in the certificate courses.

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Autism Spectrum Disorders, Graduate Certificate

The Graduate Autism Spectrum Disorder Certificate program is an interdisciplinary certificate where the broad goal is to provide a foundation in the causes and characteristics of ASD, and interventions in various areas (e.g., communication, sensory needs, etc.). In addition, this certificate addresses challenges with assessment and early identification of children with ASD in diverse communities. The elective courses address areas related to addressing the unique needs of individuals on the spectrum, such as their language development needs and behavioral needs.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

- Applicants with a graduate degree must have a minimum 3.0 graduate grade point average.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

This certificate program requires a minimum of 15 credits. Students take two required courses and then, in consultation with the Program Coordinator, choose their remaining 9 elective credits from one or more disciplines.

Code	Title	Credits
<b>Required</b>		
EXCEDUC 760	Foundations of Autism Spectrum Disorders	3
EXCEDUC 761	Methods for Working with Individuals with Autism	3
<b>Electives</b>		
Courses may be taken in one discipline or across discipline areas. Select 9 credits from the list of options below.		9
<b>Exceptional Education</b>		
EXCEDUC 601G	Behavioral Supports	

or EXCEDUC 671G	Behavior Support & Intervention for Mid/High Students with Disabilities
EXCEDUC 679G	Critical Issues in Transition Planning for Students with Disabilities
EXCEDUC 762	Academic/Social Challenges of Individuals with ASD: Adv. Interventions
EXCEDUC 775	Field Work: Individuals with Autism Spectrum Disorders <sup>1</sup>

### Psychology

PSYCH 502G	Applied Behavior Analysis
PSYCH 812	Field Placement in Psychology

### Communication Sciences & Disorders

COMSDIS 706	Language Assessment and Intervention
COMSDIS 715	Assessment and Intervention in Augmentative and Alternative Communication
COMSDIS 717	Special Populations in Communication Disorders
COMSDIS 720	Advanced Clinical Practice in Speech-Language Pathology:
COMSDIS 799	Independent Studies (In conjunction with content elective)

### Social Work

SOC WRK 562G	Child and Family Services
SOC WRK 630G	Families and Poverty
SOC WRK 705	Individual Behavior and Social Welfare
SOC WRK 753	Adult Psychopathology
SOC WRK 754	Child and Adolescent Psychopathology
SOC WRK 765	Social Work Boundaries and Ethics in Professional Practice
SOC WRK 771	Development of the Family Over the Life Span
SOC WRK 774	Trauma Counseling I: Theory and Research
SOC WRK 775	Trauma Counseling II: Diagnosis and Treatment

### Occupational Therapy

OCCTHPY 590G	Topics in Occupational Therapy: (any open to non-OT students)
OCCTHPY 620G	Introduction to Assistive and Rehabilitation Technology
OCCTHPY 625G	Design and Disability
OCCTHPY 740	Occupational Therapy with Children and Families
OCCTHPY 760	Assistive and Rehabilitation Technology

**Total Credits** **15**

<sup>1</sup> Prerequisites EXCEDUC 760 & EXCEDUC 761; may be taken concurrently with EXCEDUC 761.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the

certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as the course being substituted. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Autism Spectrum Disorders, Undergraduate Certificate

The Autism Spectrum Certificate program will train students to help persons with an autism spectrum disorder (ASD) in numerous settings. Potential students include therapists and family members working with children at home, special and general education teachers working with children in school settings, and job coaches working with young adults and adults in the work place.

Through courses, field experiences, and other planned learning experiences, students will critically examine the characteristics, etiology, and prevalence of ASD and related disorders; understand assessment, diagnosis, and intervention; learn how to work with family members of individuals with ASD; understand the language, communication, and social needs of individuals with ASD; and learn to apply interventions.

## Requirements Certificate Requirements

Code	Title	Credits
<b>Required Core Courses</b>		
EXCEDUC 560	Foundations of Autism Spectrum Disorders	3
EXCEDUC 561	Methods for Working with Individuals with Autism Spectrum Disorders	3
<b>Field Experience</b>		
Select one of the following or another field experience approved by the faculty advisor:		3
EXCEDUC 575	Field Experience in Autism Spectrum Disorders	
PSYCH 292	Psychology Field Placement-Lower Division	
PSYCH 692	Field Placement in Psychology	
<b>Electives</b>		
Choose two:		6
ED PSY 330	Introduction to Learning and Development	
ED PSY/EXCEDUC 613	Infant and Early Childhood Assessment	
ED PSY 640	Human Development: Theory and Research	
EXCEDUC 300	The Exceptional Individual	
EXCEDUC 301	American Sign Language I	
EXCEDUC 302	American Sign Language II	
EXCEDUC 303	American Sign Language III	
EXCEDUC 304	American Sign Language IV	
EXCEDUC 305	American Sign Language V	
EXCEDUC 306	American Sign Language VI	
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	
EXCEDUC 605	Child, Learner, Disabilities	
EXCEDUC 630	Survey of EC Intervention: Young Children with Special Needs, Families	
EXCEDUC 652	Developmental Evaluation of Young Children with Disabilities	
COMSDIS 210	Survey of Communication Disorders	
COMSDIS 351	Clinical Process II: Child Language Disorders	
KIN 561	Investigating Motor Behavior in Health, Aging, and Disease	
PSYCH 214	Introduction to Conditioning and Learning	
PSYCH 260	Child Psychology	
PSYCH 502	Applied Behavior Analysis	
<b>Total Credits</b>		<b>15</b>

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger

campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### Scheduling an Appointment

Office of Student Services  
 Enderis Hall, Room 209  
 (414) 229-4721  
[soeinfo@uwm.edu](mailto:soeinfo@uwm.edu)

### Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Bilingual Education (Supplemental), Minor

The University of Wisconsin-Milwaukee offers coursework for a supplemental certification in Bilingual Education. This program is designed for individuals who wish to teach in a classroom in which two languages (English and another language) are used for instruction. Students wishing to pursue this certification must be in process of or already have a certification.

## Requirements

### Professional Education Requirements

Code	Title	Credits
CURRINS 503	Assessment Issues in Language Education	3
CURRINS 541	Principles and Methods of Teaching ESL	3
CURRINS 542	History and Politics of Second Language Education	3
CURRINS 543	Developing Biliteracy	3
CURRINS 546	Language, Content, and Comprehensible Input	3
CURRINS 655	Applied Educational Linguistics	3
<b>Student Teaching</b> <sup>1</sup>		
CURRINS 442	Student Teaching in Bilingual Education	3

CURRINS 445	Seminar in Language Education <sup>2</sup>	3
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 389) for details.

<sup>2</sup> Not required for students currently completing a portfolio in their major certification

### Additional Requirements for Certification

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
- Undergraduate students must meet the graduation requirements for their primary certification.
- Program Portfolio - based on the 10 WI Teacher Standards.

## Benchmarks

### Student Teaching

Prior to requesting/being assigned a student teaching placement, students must:

- Demonstrate Foreign Language Proficiency - A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor.
- Complete and submit an application. Deadlines for submission are posted by the Office of Clinical Experiences. (<http://uwm.edu/education/academics/clinical-experiences/>)

To be approved, students must **ALSO** meet the following criteria:

- Be admitted to the School of Education.
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student's faculty advisor.
- Have a minimum cumulative GPA of 2.5 on all undergraduate coursework, including transfer courses.
- Have a minimum 2.75 GPA in all content area and professional education courses.
- Removal of all F and/or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experience.

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

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- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

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## Graduate Advising

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# Curriculum and Instruction, MS

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits

earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>Select 12 credits in Curriculum and Instruction core areas</b>		
CURRINS 701	Curriculum Planning and Ideologies	3
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	1-4
CURRINS 714	Analysis of Instruction to Improve Teaching and Learning	3
or CURRINS 774	College Teaching	
<b>Select 12 to 15 credits in a focus area approved by the student's major professor</b>		<b>12-15</b>
<b>Select one of the following:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction (3 credits)	
CURRINS 890	Master's Research or Thesis (3-6 credits)	
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Curriculum and Instruction, MS: Cultures and Communities Education

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for

specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

### Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>Select 12 credits in Curriculum and Instruction core areas</b>		
CURRINS 701	Curriculum Planning and Ideologies	3
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	1-4
CURRINS 714	Analysis of Instruction to Improve Teaching and Learning	3
or CURRINS 774	College Teaching	
<b>Select 12 to 15 credits in a focus area approved by the student's major professor</b>		<b>12-15</b>
<b>Select one of the following:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction (3 credits)	
CURRINS 890	Master's Research or Thesis (3-6 credits)	
<b>Total Credits</b>		<b>30</b>

### Cultures and Communities Education Concentration

Code	Title	Credits
<b>Required Course</b>		
EDUC 882	Multicultural Studies Practicum	3
<b>Focus Area Courses (minimum of 12 credits)</b>		
ANTHRO 540	Applications of Anthropology	3
SOCIOL 448	Sociology of Children and Adolescents	3
HIST 449	Popular Culture in America, 1800 to the Present	3
HIST 451	History of Wisconsin	3
ENGLISH 404	Language, Power, and Identity	3
ENGLISH 627	Seminar in Literature and Culture:	3
ENGLISH 631	Seminar in African-American Literature:	3
ED POL 560	Education and Hispanics	3
ED POL 610	Reproduction of Minoritized Communities	3

ED POL 620	History of the Education of African Americans	3
ED POL 621	History of Native Education and Policy Development	3
ED POL 625	Race Relations in Education	3
ED POL 705	Sociology of Education and Community Engagement	3
ED POL 823	Multicultural Education	3
CURRINS 505	Collaborative Relationships with Families, Schools and Communities	3
CURRINS 508	Language and Urban Schooling	3
CURRINS 542	History and Politics of Second Language Education	3
CURRINS 655	Applied Educational Linguistics	3
EDUC 881	Action Research	3
INFOST 670	Instructional Technologies	3

### Additional Requirements

#### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

#### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

### Curriculum and Instruction, MS: Early Childhood Education

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>Select 12 credits in Curriculum and Instruction core areas</b>		
CURRINS 701	Curriculum Planning and Ideologies	3
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	1-4
CURRINS 714	Analysis of Instruction to Improve Teaching and Learning	3
or CURRINS 774	College Teaching	
<b>Select 12 to 15 credits in a focus area approved by the student's major professor</b>		<b>12-15</b>
<b>Select one of the following:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction (3 credits)	
CURRINS 890	Master's Research or Thesis (3-6 credits)	
<b>Total Credits</b>		<b>30</b>

### Early Childhood Education Concentration

Code	Title	Credits
<b>Required courses:</b>		
CURRINS 702	Curriculum Problems and Practices in Early Childhood Education	4
CURRINS 703	Advanced Curriculum in Early Childhood Education	4
CURRINS 802	Recent Research in the Field of Early Childhood Education	4
CURRINS 803	Reflective Practice: Urban Early Childhood Teaching	4
<b>Total Credits</b>		<b>16</b>

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and

filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Curriculum and Instruction, MS: English Education: Creative Writing

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>15 credits in Curriculum and Instruction core areas</b>		
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	3
<b>Choose one:</b>		<b>3</b>
CURRINS 658	Teaching and Assessing English <sup>1</sup>	
CURRINS 742	UWM Writing Project:	
CURRINS 753	Teaching Language and Composition	
<b>Choose one:</b>		<b>3</b>



CURRINS 657	Approaches to Teaching and Assessing Texts in the Secondary Schools <sup>1</sup>	
CURRINS 754	Teaching Literature	
CURRINS elective		3

<sup>1</sup> For initial certifiers only.

Code	Title	Credits
<b>Master's Seminar or Thesis, choose one:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction	
CURRINS 890	Master's Research or Thesis	

### English Education: Creative Writing Concentration

Code	Title	Credits
<b>Focus Courses</b>		<b>12</b>
12 credits in focus area (at least one course should be at the 800 level, two at the 700 level)		
CURRINS 742	UWM Writing Project:	
ENGLISH 704	Teaching Creative Writing	
ENGLISH 715	Narrative Craft and Theory:	
ENGLISH 716	Poetic Craft and Theory:	
ENGLISH 752	Essay as Genre	
ENGLISH 813	Special Topics in Creative Writing:	
ENGLISH 815	Seminar in Fiction Writing:	
ENGLISH 816	Seminar in Poetry Writing:	

### Additional Requirements

#### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

#### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Curriculum and Instruction, MS: English Education: Literature and Cultural Theory

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the

Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>15 credits in Curriculum and Instruction core areas</b>		<b>15</b>
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	3
<b>Choose one:</b>		<b>3</b>
CURRINS 658	Teaching and Assessing English <sup>1</sup>	
CURRINS 742	UWM Writing Project:	
CURRINS 753	Teaching Language and Composition	
<b>Choose one:</b>		<b>3</b>
CURRINS 657	Approaches to Teaching and Assessing Texts in the Secondary Schools <sup>1</sup>	
CURRINS 754	Teaching Literature	
CURRINS elective		3

<sup>1</sup> For initial certifiers only.

Code	Title	Credits
<b>Master's Seminar or Thesis, choose one:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction	
CURRINS 890	Master's Research or Thesis	

### English Education: Literature and Cultural Theory

Code	Title	Credits
<b>Focus Courses</b>		<b>12</b>
12 credits in focus area (at least one course should be at the 800 level, two at the 700 level)		

CURRINS 649	Children's Literature
CURRINS 650	Reading Interests of Adolescents
CURRINS 742	UWM Writing Project:
ENGLISH 720	Modern Literary Theory
ENGLISH 740	Approaches to the Modern I
ENGLISH 741	Approaches to the Modern II
ENGLISH 771	Literature of the English Renaissance:
ENGLISH 772	Restoration and Eighteenth-Century Literature:
ENGLISH 774	Literature in Victorian England:
ENGLISH 775	Modern English Literature:
ENGLISH 776	Women Writers:
ENGLISH 777	American Literature to 1830:
ENGLISH 778	Native American Literature:
ENGLISH 779	American Literature, 1830-1900:
ENGLISH 780	African American Literature:
ENGLISH 781	Modern American Literature:
ENGLISH 782	Contemporary Literature:
ENGLISH 783	World Literature in English:
ENGLISH 784	Topics in Transnational Literature
ENGLISH 814	Seminar in Irish Literature:
ENGLISH 822	Seminar in Poetry:
ENGLISH 824	Seminar in Special Topics in Literature:
ENGLISH 825	Seminar in Major Figures:
ENGLISH 827	Seminar in Contemporary Literature:
ENGLISH 828	Seminar in Comparative Literature:
ENGLISH 843	Seminar in Renaissance Prose and Poetry:
ENGLISH 845	Seminar in Shakespeare:
ENGLISH 861	Seminar in Romantic Literature:
ENGLISH 862	Seminar in Victorian Literature:
ENGLISH 871	Seminar in African American Literature:
ENGLISH 872	Seminar in Women Writers:
ENGLISH 874	Seminar in World Literature in English:
ENGLISH 875	Seminar in Modern Literature:
ENGLISH 878	Seminar in Feminist Critical Theory:
ENGLISH 879	Seminar in Native American Literature:
ENGLISH 881	Seminar in Colonial American Literature:
ENGLISH 882	Seminar in Nineteenth-Century American Literature:
ENGLISH 883	Seminar in Twentieth-Century American Literature:
ENGLISH 885	Seminar in Critical Theory:

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and

filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Curriculum and Instruction, MS: English Education: Media, Cinema, and Digital Studies

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>15 credits in Curriculum and Instruction core areas</b>		<b>15</b>
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	3
<b>Choose one:</b>		<b>3</b>
CURRINS 658	Teaching and Assessing English <sup>1</sup>	
CURRINS 742	UWM Writing Project:	
CURRINS 753	Teaching Language and Composition	

<b>Choose one:</b>	<b>3</b>
CURRINS 657	Approaches to Teaching and Assessing Texts in the Secondary Schools <sup>1</sup>
CURRINS 754	Teaching Literature
CURRINS elective	3

<sup>1</sup> For initial certifiers only.

Code	Title	Credits
<b>Master's Seminar or Thesis, choose one:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction	
CURRINS 890	Master's Research or Thesis	

## English Education: Media, Cinema, and Digital Studies Concentration

Code	Title	Credits
<b>Focus Courses</b>		<b>12</b>
12 credits in focus area (at least one course should be at the 800 level, two at the 700 level)		
CURRINS 547	Curricular Applications of the Internet	
CURRINS 742	UWM Writing Project:	
ENGLISH 709	Rhetoric, Writing, and Information Technology	
ENGLISH 714	Usability Studies	
ENGLISH 715	Narrative Craft and Theory:	
ENGLISH 720	Modern Literary Theory	
ENGLISH 740	Approaches to the Modern I	
ENGLISH 741	Approaches to the Modern II	
ENGLISH 742	Media Studies	
ENGLISH 743	Film Theory and Criticism	
ENGLISH 876	Seminar in Media Studies:	
ENGLISH 877	Seminar in Film Studies:	
ENGLISH 878	Seminar in Feminist Critical Theory:	
ENGLISH 885	Seminar in Critical Theory:	
ENGLISH 887	Seminar in Digital Studies:	

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Curriculum and Instruction, MS: English Education: Rhetoric and Professional Writing

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>15 credits in Curriculum and Instruction core areas</b>		<b>15</b>
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	3
<b>Choose one:</b>		<b>3</b>
CURRINS 658	Teaching and Assessing English <sup>1</sup>	
CURRINS 742	UWM Writing Project:	
CURRINS 753	Teaching Language and Composition	
<b>Choose one:</b>		<b>3</b>
CURRINS 657	Approaches to Teaching and Assessing Texts in the Secondary Schools <sup>1</sup>	
CURRINS 754	Teaching Literature	
CURRINS elective		3

<sup>1</sup> For initial certifiers only.

Code	Title	Credits
<b>Master's Seminar or Thesis, choose one:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction	
CURRINS 890	Master's Research or Thesis	

## English Education: Rhetoric and Professional Writing

Code	Title	Credits
<b>Focus Courses</b>		<b>12</b>
<b>12 credits in focus area (at least one course should be at the 800 level, two at the 700 level)</b>		
CURRINS 547	Curricular Applications of the Internet	
CURRINS 742	UWM Writing Project:	
ENGLISH 701	Writing Pedagogies	
ENGLISH 704	Teaching Creative Writing	
ENGLISH 705	Public Rhetorics and Community Engagement Colloquium	
ENGLISH 706	Seminar in Professional Writing Theory and Pedagogy	
ENGLISH 708	Advanced Professional Writing	
ENGLISH 709	Rhetoric, Writing, and Information Technology	
ENGLISH 710	Advanced Project Management for Professional Writers	
ENGLISH 711	Topics in Public and Professional Writing:	
ENGLISH 712	Theories in Public Rhetorics and Community Engagement:	
ENGLISH 713	Research Methods in Rhetorics, Literacies, and Community Engagement:	
ENGLISH 714	Usability Studies	
ENGLISH 750	History of Rhetoric and Writing Studies:	
ENGLISH 751	History of Rhetoric II:	
ENGLISH 752	Essay as Genre	
ENGLISH 753	Contemporary Rhetorical Theory	
ENGLISH 754	Post-Secondary Composition-Topics in Pedagogical Theory:	
ENGLISH 755	Issues in Writing Research:	
ENGLISH 758	Writing Workshop in Rhetoric and Composition	
ENGLISH 812	Seminar in Theories of Composition and Rhetoric:	
ENGLISH 853	Seminar in Contemporary Rhetorical Theory:	
ENGLISH 854	Seminar in College Writing Pedagogy:	
ENGLISH 855	Seminar in Public Rhetorics and Community Engagement:	
ENGLISH 878	Seminar in Feminist Critical Theory:	
ENGLISH 903	Presenting STEM	
LINGUIS 806	Seminar in Linguistics:	

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Curriculum and Instruction, MS: Mathematics Education

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>Select 12 credits in Curriculum and Instruction core areas</b>		
CURRINS 701	Curriculum Planning and Ideologies	3

CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	1-4
CURRINS 714	Analysis of Instruction to Improve Teaching and Learning	3
or CURRINS 774	College Teaching	
<b>Select 12 to 15 credits in a focus area approved by the student's major professor</b>		<b>12-15</b>
<b>Select one of the following:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction (3 credits)	
CURRINS 890	Master's Research or Thesis (3-6 credits)	
<b>Total Credits</b>		<b>30</b>

### Mathematics Education Concentration

Code	Title	Credits
<b>Qualifying Courses (minimum of 15 graduate credits)</b>		
CURRINS 500	Workshop in Curriculum and Instruction:	1-6
CURRINS 520	Developing Mathematical Thinking in Young Children	3
CURRINS 532	Teaching of Mathematics: Secondary	3
CURRINS 560	Improving Mathematics Teaching and Learning:	1-3
CURRINS 561	Mathematics Learners in Special Education I	3
CURRINS 562	Mathematics Learners in Special Education II	3
CURRINS 579	Current Topics in Curriculum and Instruction: (with appropriate subtitle)	1-3
CURRINS 580	Mathematics Education:	1-3
CURRINS 624	Instructional Trajectories for Fraction Concepts and Operations	3
CURRINS 625	Principles and Practices of Teaching Geometry and Geometric Thinking	3
CURRINS 626	Principles and Practices of Teaching Algebraic Reasoning	3
CURRINS 629	Change and Change Strategies in Education	1-4
CURRINS 720	Curriculum and Standards for School Mathematics	3
CURRINS 730	Mathematics in Elementary Education	3
CURRINS 731	Mathematics in the Secondary School	3
CURRINS 761	Mathematics Instructional Leadership	3
CURRINS 830	Seminar in Elementary School Mathematics Education	3
CURRINS 861	Seminar in Mathematics Urban Education	3
ED PSY 631	Cognition: Learning, Problem Solving and Thinking	3
MATH 690	Topics in Mathematics:	3

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Curriculum and Instruction, MS: Mathematics Teacher Leadership

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>Select 12 credits in Curriculum and Instruction core areas</b>		
CURRINS 701	Curriculum Planning and Ideologies	3
CURRINS 705	Research in Schools and Communities	3

CURRINS 716	Teaching in Urban & Diverse Communities	1-4
CURRINS 714 or CURRINS 774	Analysis of Instruction to Improve Teaching and Learning College Teaching	3
<b>Select 12 to 15 credits in a focus area approved by the student's major professor</b>		<b>12-15</b>
<b>Select one of the following:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction (3 credits)	
CURRINS 890	Master's Research or Thesis (3-6 credits)	
<b>Total Credits</b>		<b>30</b>

### Mathematics Teacher Leadership Concentration

Code	Title	Credits
<b>Required Course (3 credits)</b>		
CURRINS 761	Mathematics Instructional Leadership	3
<b>Elective Courses (minimum 12 credits)</b>		
CURRINS 520	Developing Mathematical Thinking in Young Children	3
CURRINS 560	Improving Mathematics Teaching and Learning:	1-3
CURRINS 561	Mathematics Learners in Special Education I	3
CURRINS 579	Current Topics in Curriculum and Instruction:	1-3
CURRINS 580	Mathematics Education:	1-3
CURRINS 624	Instructional Trajectories for Fraction Concepts and Operations	3
CURRINS 625	Principles and Practices of Teaching Geometry and Geometric Thinking	3
CURRINS 626	Principles and Practices of Teaching Algebraic Reasoning	3
CURRINS 629	Change and Change Strategies in Education	1-4
CURRINS 720	Curriculum and Standards for School Mathematics	3
CURRINS 725	Improving Teaching and Learning with Classroom-Based Assessments	3
CURRINS 730	Mathematics in Elementary Education	3
CURRINS 731	Mathematics in the Secondary School	3
CURRINS 779	Current Topics in Curriculum and Instruction:	1-3
CURRINS 830	Seminar in Elementary School Mathematics Education	3

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Curriculum and Instruction, MS: Reading Education

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>Select 12 credits in Curriculum and Instruction core areas</b>		
CURRINS 701	Curriculum Planning and Ideologies	3
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	1-4
CURRINS 714 or CURRINS 774	Analysis of Instruction to Improve Teaching and Learning College Teaching	3

**Select 12 to 15 credits in a focus area approved by the student's major professor**

**Select one of the following:** **3-6**

CURRINS 800	Master's Seminar in Curriculum and Instruction (3 credits)	
CURRINS 890	Master's Research or Thesis (3-6 credits)	
<b>Total Credits</b>		<b>30</b>

### Reading Education Concentration

Code	Title	Credits
<b>Qualifying Courses (15 cr)</b>		
CURRINS 543	Developing Biliteracy	3
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
CURRINS 643	Balanced Literacy Instruction in the Elementary School	1-3
CURRINS 646	University of Wisconsin System Reading Research Symposium	1-3
CURRINS 647	Early Reading Empowerment: Part 1	3
CURRINS 648	Early Reading Empowerment: Part 2	3
CURRINS 650	Reading Interests of Adolescents	3
CURRINS 655	Applied Educational Linguistics	3
CURRINS 700	Field Work in Schools, Agencies and Institutions:	2-6
CURRINS 747	Reading Assessment and Instruction with Practicum: K-12 Part I	3
CURRINS 748	Reading Assessment and Instruction with Practicum, K-12: Part II	3
CURRINS 799	Independent Reading: (With appropriate faculty)	1-3
CURRINS 846	Seminar in Developmental Reading:	3
EXCEDUC 600	Survey of Exceptional Education	3
EXCEDUC 715	Issues and Trends in Exceptional Education	3

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Curriculum and Instruction, MS: Science Education

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

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### Admission

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Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>Select 12 credits in Curriculum and Instruction core areas</b>		
CURRINS 701	Curriculum Planning and Ideologies	3
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	1-4
CURRINS 714	Analysis of Instruction to Improve Teaching and Learning	3
or CURRINS 774	College Teaching	
<b>Select 12 to 15 credits in a focus area approved by the student's major professor</b>		<b>12-15</b>
<b>Select one of the following:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction (3 credits)	
CURRINS 890	Master's Research or Thesis (3-6 credits)	
<b>Total Credits</b>		<b>30</b>

### Science Education Concentration

Code	Title	Credits
<b>Required Courses</b>		
CURRINS 510	Cooperative Strategies for Pre and Early Adolescents	1-3
CURRINS 518	Science Methods I: Middle/Secondary Methods and Fieldwork	3-6

CURRINS 519	Science Methods II: Middle/Secondary Methods and Fieldwork	3-6
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
CURRINS 570	Improving Science Teaching and Learning:	1-3
ED PSY 579	Current Topics in Educational Psychology:	1-3
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	3
EXCEDUC 536	Inclusion for Secondary Science and Math Educators	1
EXCEDUC 537	Math and Science Methods for All Learners	1

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.

### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Curriculum and Instruction, MS: Urban Social Studies

The Department of Teaching and Learning offers a graduate program of study in curriculum and instruction, including choices of concentration in three Focus Areas: Subject Area, Instructional Level Area and Cross-Curricular Area.

The Department also cooperates with the Department of Administrative Leadership in the Specialist Certificate Program with an emphasis in reading. Under the auspices of the PhD program in Urban Education, the Department offers doctoral specializations in Curriculum and Instruction and in Mathematics Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements to be considered for admission to the program. Applicants must also complete the reason statement in the application.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than 6 credits.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 credits, including:

Code	Title	Credits
<b>Select 12 credits in Curriculum and Instruction core areas</b>		
CURRINS 701	Curriculum Planning and Ideologies	3
CURRINS 705	Research in Schools and Communities	3
CURRINS 716	Teaching in Urban & Diverse Communities	1-4
CURRINS 714	Analysis of Instruction to Improve Teaching and Learning	3
or CURRINS 774	College Teaching	
<b>Select 12 to 15 credits in a focus area approved by the student's major professor</b>		<b>12-15</b>
<b>Select one of the following:</b>		<b>3-6</b>
CURRINS 800	Master's Seminar in Curriculum and Instruction (3 credits)	
CURRINS 890	Master's Research or Thesis (3-6 credits)	
<b>Total Credits</b>		<b>30</b>

### Urban Social Studies Concentration

Code	Title	Credits
<b>Required Course (3 graduate credits)</b>		
CURRINS 721	Advanced Problems in the Teaching of Social Studies	3
<b>Minimum of 12 graduate credits required from the list below</b>		
URB STD 971	Seminar on the History of American Urban Problems	3
URB STD 983	Contemporary Urban Social Structure and Change	3
POL SCI 913	Seminar in Urban Political Process	3
GEOG 905	Seminar: Selected Topics in Geography:	3
HIST 900	Seminar on U.S. History:	3
HIST 980	Growth of Urban Society	3
SOCIOL 901	Urban Social Structure	3

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the department chair. Students who have not completed a Proposed Program of Study form with their advisor and filed it with the Department by the end of the semester in which they are admitted may not be allowed to register for the next term.



### Certifications

Graduate students seeking initial teacher certification or added certification(s) can arrange their master's degree program so that a portion of the credits earned towards the master's degree can also serve as partial fulfillment of teacher certification requirements.

## Education, BS: Early Childhood

The Early Childhood Education (ECE) program is available for those interested in teaching young children from birth to age 8 (through third grade) in a variety of early care/education and school programs. Students are admitted to the major immediately in the first year or upon transfer to UWM, and it is possible to complete the program in four years. Students who satisfactorily complete the program requirements will be highly-qualified to teach in early childhood settings. Those who wish to acquire a State of Wisconsin ECE teaching license can complete the state-mandated assessments through the program. Additionally program students can elect to attain add-on certification in ECE and English as a Second Language (ESL) or Bilingual Education. All program students will be prepared to teach culturally and linguistically diverse children. The program provides real-world experiences in a cross-section of sites where future employment opportunities exist, including public and charter primary schools; Head Start; and preschools and other community-based educational settings.

### Requirements

#### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

#### Program Core

A grade of C or better must be earned in all professional education courses and sequenced CURRINS courses.

Code	Title	Credits
<i>Choose one:</i> 3		
ENGLISH 201	Strategies for Academic Writing (GER-OWCB)	3
CURRINS 234	Teachers as Writers (GER-OWCB)	
MATH 175	Mathematical Explorations for Elementary Teachers I (GER-QLA)	3
MATH 176	Mathematical Explorations for Elementary Teachers II (GER-QLB)	3
<i>Choose one:</i> <sup>1</sup> 3		
ANTHRO 213	American Indian Peoples of Wisconsin (GER-CD, SS)	
ENGLISH 276	Introduction to American Indian Literature: (GER-CD, HU)	
AIS 203	Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)	
HIST 263	North American Indian History Since 1887 (GER-CD, SS)	
COMMUN 103	Public Speaking (GER-HU)	3
Literature Elective (GER-HU)		3
CES 210	Introduction to Conservation and Environmental Science (GER-NS)	3

Earth Science elective (GER-NS or GER-NS+: Aston, Atm Sci, Geog, or Geo Sci)		3-4
Physical Science elective (GER-NS or GER-NS+: Chem or Physics)		3-4
<i>Choose one:</i>		3
HIST 151	American History: 1607 to 1877 (GER-SS)	
HIST 152	American History: 1877 to the Present (GER-SS)	
POL SCI 104	Introduction to American Government and Politics (GER-SS)	
POL SCI 105	State Politics (GER-SS)	
Social Science Elective (GER-SS)		3
<i>Prior to Semester 4</i>		
CURRINS 140	Field Experience with Families & Communities	1
CURRINS 312	Models and Issues for Early Childhood Education	3
<i>Semester 4</i>		
CURRINS 240	Field Experience with Dual Language Learners	2
CURRINS 501	Language Acquisition for Children of Diverse Backgrounds	3
<i>Semester 5</i>		
CURRINS 302	Curriculum Design in Early Childhood	3
CURRINS 340	Field Experience in Preschool and Kindergarten Classrooms	2
CURRINS 502	Emergent Literacy and Bilinguality in the Early Childhood Classroom	3
CURRINS 534	Instructional Strategies in Early Childhood Education	3
<i>Semester 6</i>		
CURRINS 440	Field Experience in the Primary Grades	2
CURRINS 504	Methods for Bilinguality and Language Arts in Primary Grades	3
<i>Semester 7</i>		
CURRINS 338	Teaching of Science in Early Childhood	3
CURRINS 540	Advanced Field Experience in Early Childhood Education	3-6
CURRINS 541	Principles and Methods of Teaching ESL	3
<b>Total Credits</b>		<b>67-72</b>

<sup>1</sup> Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

### Professional Requirements

A grade of C or better must be earned in all professional education courses and sequenced CURRINS courses.

Code	Title	Credits
CURRINS 301	Infants and Toddlers: Curriculum and Teaching	3
CURRINS 323	Teaching of Social Studies:	3
CURRINS 511	Curriculum and Guidance for Social-Emotional Learning	3

CURRINS 512	Reflective Practice in Early Childhood Teaching and Learning	3
CURRINS 520	Developing Mathematical Thinking in Young Children	3
CURRINS/EXCEDUC 612	Collaborations for Teachers with Families, Schools, and Communities	3
CURRINS 651	Literature for the Young Child	3
ART ED 130	Multicultural Art and Visual Learning in Elementary Education (GER- A, CD)	3
MUS ED 260	Making Music Connections with Children	3
ED POL 375	Cultural Foundations of Education	3
ED PSY 330	Introduction to Learning and Development	3
ED PSY/EXCEDUC 613	Infant and Early Childhood Assessment	3
EXCEDUC 630	Survey of EC Intervention: Young Children with Special Needs, Families	3
<b>Total Credits</b>		<b>39</b>

### Semester 8: Program Completion and Certification Options

Code	Title	Credits
<b>Option 1: Education Degree, Early Childhood Education</b>		
CURRINS 540	Advanced Field Experience in Early Childhood Education	6
Select electives as needed to reach 120 credits (see an advisor for appropriate options)		
<b>Total Credits</b>		<b>6</b>

Code	Title	Credits
<b>Option 2: Education Degree, Early Childhood Education plus Early Childhood Certification</b>		
CURRINS 601	Early Childhood Seminar in Student Teaching	3
CURRINS 640	Student Teaching in Early Childhood	12
<b>Total Credits</b>		<b>15</b>

Code	Title	Credits
<b>Option 3: Education Degree in Early Childhood plus Early Childhood and English as a Second Language Certifications</b>		
CURRINS 601	Early Childhood Seminar in Student Teaching	3
CURRINS 640	Student Teaching in Early Childhood	9
CURRINS 443	Pre-Student Teaching in English as a Second Language Education	3
<b>Total Credits</b>		<b>15</b>

Code	Title	Credits
<b>Option 4: Education Degree in Early Childhood plus Early Childhood and Bilingual Certifications</b>		
CURRINS 601	Early Childhood Seminar in Student Teaching	3
CURRINS 640	Student Teaching in Early Childhood	9
CURRINS 442	Student Teaching in Bilingual Education	3
<b>Total Credits</b>		<b>15</b>

Code	Title	Credits
<b>Option 5: Education Degree in Early Childhood plus Early Childhood, English as a Second Language, and Bilingual Certifications</b>		
CURRINS 601	Early Childhood Seminar in Student Teaching	3
CURRINS 640	Student Teaching in Early Childhood	6
CURRINS 442	Student Teaching in Bilingual Education	3
CURRINS 443	Pre-Student Teaching in English as a Second Language Education	3
<b>Total Credits</b>		<b>15</b>

### Program Benchmarks (p. 402)

#### Additional Requirements for Graduation:

- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Minimum cumulative GPA of 2.75 on professional education courses
- Satisfactory completion of a minimum of 120 credits
- Completion of the last year of coursework (30 credits) in residence at UWM
- Successful completion of a pedagogical knowledge assessment is required for certification

## Benchmarks

Students must meet benchmarks at several points during the program and prior to student teaching. Benchmarks are monitored through tracking systems and advising. A student will be restricted from moving forward in the program if the benchmarks are not completed.

### 30 Credit Benchmarks

Reviewed with your advisor the semester after completion of 30 credits:

- Mandatory meeting with your advisor
- Completion of ENGLISH 102 with a C or better or achieve appropriate score on the English Placement Test
- Completion of MATH 175 with a C or better
- Minimum cumulative GPA of 2.25 on all UWM and transfer courses

### Admission to Certification Benchmarks

Note: Students who are not pursuing certification should continue meeting with their advisors but do not submit the Admission to Certification form.

Reviewed with your advisor the semester after completion of CURRINS 240 and CURRINS 501:

- Mandatory meeting with your advisor
- Completion of 30 Credit Benchmarks
- Completion of CURRINS 240 and CURRINS 501 with a C or better
- Minimum cumulative GPA of 2.5 on all UWM and transfer courses
- Submit Admission for Certification form
  - If also pursuing ESL certification, take the Praxis Subject Assessment: Teaching English to Speakers of Other Languages #5362. Passing score is 149.

### CURRINS 540 Benchmarks

Reviewed with your advisor the semester after completion of CURRINS 340 and CURRINS 502:

**Non-certification track:**

- Mandatory meeting with your advisor
- Mandatory meeting with program director to discuss final field options

**Certification track:**

- Mandatory meeting with your advisor
- Request student teaching placement: <https://uwm.edu/education/academics/clinical-experiences/>

**For ESL Certification:**

- Successfully complete the PRAXIS Subject Assessment Exam #5362: Teaching of English to Speakers of Other Languages, with a passing score of 149 or higher.

**For Bilingual Certification:**

- Successfully complete the Language Proficiency Requirement: A minimum score of Advanced-Low on the ACTFL OPI. See your advisor for details.

**Content Knowledge Requirement Benchmarks (for certification only)**

Reviewed with your advisor the semester after completion of CURRINS 440 and CURRINS 504

- Mandatory meeting with your advisor
- Completion of CURRINS 440 and CURRINS 504 with a C or better
- Minimum cumulative grade point average of 2.75 on all UWM and transfer courses
- Elementary Education Content Knowledge Exam #5018 with a passing score of 157 or higher –OR– minimum GPA of 3.0 in Early Childhood Education Content Concentration Courses. See ECE Content Concentration Courses below:

Code	Title	Credits
ENGLISH 102	College Writing and Research	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3
MATH 176	Mathematical Explorations for Elementary Teachers II	3
CURRINS 234 or ENGLISH 201	Teachers as Writers Strategies for Academic Writing	3
CURRINS 323	Teaching of Social Studies:	3
CURRINS 338	Teaching of Science in Early Childhood	3
CURRINS 502	Emergent Literacy and Biliteracy in the Early Childhood Classroom	3
CURRINS 504	Methods for Biliteracy and Language Arts in Primary Grades	3
CURRINS 520	Developing Mathematical Thinking in Young Children	3

**Student Teaching Benchmarks (for certification only)**

Prior to student teaching you must complete a midpoint eportfolio and attend a pre-student teaching orientation.

Reviewed with your advisor the semester prior to student teaching:

- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Removal of all F grades in ECE program courses
- Removal of all I (Incomplete) grades in courses
- C or better in professional education and CurrIns sequenced courses
- Attempt the Wisconsin Foundations of Reading Test (WIFoRT)
- Successfully complete:
  - Content Knowledge Requirement Benchmarks
  - For ESL: PRAXIS Subject Assessment Exam #5362: Teaching of English to Speakers of Other Languages, with a passing score of 149 or higher
  - For Bilingual: Language Proficiency Requirement: A minimum score of Advanced-Low on the ACTFL OPI. See your advisor for details.

**Graduation Benchmarks (must be met to be approved for graduation)**

Reviewed during the student teaching semester:

- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Minimum cumulative GPA of 2.75 on all professional education courses
- Satisfactory completion of a minimum of 120 credits
- Completion of the last year of coursework (30 credits) in residence at UWM

**Certification majors only:**

- Successfully pass the Wisconsin Foundations of Reading Test (WIFoRT) with a score of 240 or higher
- Successful completion of a pedagogical knowledge assessment is required for certification.

**Undergraduate Advising**

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**How to Prepare for an Advising Meeting**

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

**Scheduling an Appointment**

Office of Student Services  
Enderis Hall, Room 209

(414) 229-4721  
soeinfo@uwm.edu

## Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Education, BS: Elementary and Middle Education, K-9

The Elementary and Middle Education Program prepares individuals to meet the needs of diverse populations in a regular education setting from kindergarten through ninth grade. Clinical and student teaching experiences occur mainly in urban settings and take place in close partnership with local school districts.

Candidates successfully completing the Elementary and Middle Education, K-9, program will receive a Bachelor of Science (BS) degree in Education and endorsement to be licensed to teach in the State of Wisconsin from four-year-kindergarten through ninth grade. Individuals are licensed to teach any subject, except world language, in a self-contained classroom, and may teach language arts, mathematics, science, and social studies in a departmentalized setting.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

Below is a list of GER courses that are *highly recommended* for students interested in the Elementary and Middle Education program.

Code	Title	Credits
<b>The Arts</b>		
ART ED 130	Multicultural Art and Visual Learning in Elementary Education (GER-A, GER-CD)	3
THEATRE 260	Storytelling: (GER-A)	3
<b>The Humanities</b>		
CURRINS 233	Introduction to Children's and Young Adult Literature (GER-HU)	3
CURRINS 234	Teachers as Writers (GER-HU, OWC-B)	3
<b>The Natural Sciences</b>		
CHEM 185	Basic Chemistry for Teachers (GER-NS +)	3
ASTRON 185	Astronomy for Pre-Education Majors (GER-NS+)	3
<b>The Social Sciences</b> <sup>1</sup>		
ANTHRO 213	American Indian Peoples of Wisconsin (GER-CD, GER-SS)	3
AIS 203	Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)	3
HIST 263	North American Indian History Since 1887 (GER-CD, GER-SS)	3
<b>Cultural Diversity</b>		
See GER-CD designated courses above.		

<sup>1</sup> The ACT 31 legislation requirement of the Wisconsin Department of Public Instruction for Teacher Certification (licensure) is also met by completing one of these courses.

### Program Core

Program core is comprised of foundational courses and should be completed prior to beginning the professional education semesters.

Code	Title	Credits
CURRINS 300	Introduction to Teaching: Colloquium and Fieldwork	3
ED PSY 330	Introduction to Learning and Development	3
ED POL 375	Cultural Foundations of Education	3
MATH 175	Mathematical Explorations for Elementary Teachers I (GER-QLA)	3
MATH 176	Mathematical Explorations for Elementary Teachers II (GER-QLB)	3
<b>Total Credits</b>		<b>15</b>

## Program Admission Requirements (p. 405) Content Area Concentration Requirements

Code	Title	Credits
<b>Approved Content Area Coursework</b>		<b>15</b>
Satisfactory completion of a minimum of 15 credits of approved coursework described under one of the concentration areas below (English Language Arts, Mathematics, Natural Sciences, or Social Studies). Some requirements may be fulfilled by GERs. Consult with your academic advisor to select appropriate coursework.		
<b>English Language Arts</b>		
Composition		6
Literature		3
Electives		6
<b>Mathematics</b>		
MATH 175	Mathematical Explorations for Elementary Teachers I (completed in Program Core)	3
MATH 176	Mathematical Explorations for Elementary Teachers II (completed in Program Core)	3
MATH 275	Problem Solving/Critical Thinking for Elementary Education Majors	3
Electives		6
<b>Natural Sciences</b>		
Earth Science		3
Biological Science		3
Physical Science		3
Electives		6
<b>Social Studies</b>		
History		3
Political Science		3
Geography		3
Electives		6

### Professional Requirements

Second degree candidates begin the program with the Professional Requirements.

A grade of C or better is required in professional semester coursework to advance in the program. No courses may be taken for credit/no credit.

Code	Title	Credits
<i>Semester 1</i>		
CURRINS 306	Initial Clinical Experience in Elementary and Middle Education	2
CURRINS 330	Teaching of Mathematics 1	3
CURRINS 536	Literacy 1: Assessing and Teaching Early Literacy	3
CURRINS 541	Principles and Methods of Teaching ESL	3
CURRINS 556	Professional Linking Seminar 1	3
EXCEDUC 605	Child, Learner, Disabilities	3
<i>Semester 2</i>		
CURRINS 321	Introduction to the Teaching of Social Studies	2

CURRINS 307	Clinical Experience in Elementary and Middle Education	3
CURRINS 327	Teaching of Science in the Elementary School	3
CURRINS 331	Teaching of Mathematics 2	3
CURRINS 537	Literacy 2: Assessing and Teaching Literacy through Early Adolescence	3
CURRINS 557	Professional Linking Seminar 2	3
CURRINS 377	Wisconsin Foundations of Reading (Course is not required, but highly recommended.)	
<i>Semester 3</i>		
CURRINS 323	Teaching of Social Studies:	2
CURRINS 332	Teaching of Mathematics 3	3
CURRINS 406	Advanced Clinical Experience in Elementary and Middle Education	4
CURRINS 527	Science in the Elementary School	3
CURRINS 538	Literacy 3: Introduction to New Literacies	3
CURRINS 558	Professional Linking Seminar 3	3
<i>Semester 4</i> <sup>2</sup>		
CURRINS 407	Student Teaching in Elementary and Middle Education	9
CURRINS 471	Student Teaching Seminar: The Effective Urban Educator	3
<b>Total Credits</b>		<b>64</b>

<sup>2</sup> Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 406) for details.

### Additional Requirements for Graduation

- Satisfactory completion of a minimum 120 credits;
- Completion of the last year of coursework (30 credits) in residence at UWM; and
- Satisfactory completion of required program coursework.

### Additional Requirements for Certification

- Minimum cumulative GPA of 2.75 in all UWM and transfer courses;
- A grade of C or better in all professional semester coursework;
- Satisfactory completion of approved program assessment;
- Completion of an approved course or workshop on the history, culture, and sovereignty rights of Wisconsin Indians to fulfill the ACT 31 legislation requirement of the Wisconsin Department of Public Instruction required for certification; and
- Passing score on the Wisconsin Foundations of Reading Test (WiFORT) is also required for endorsement to be licensed to teach in the State of Wisconsin.

## Advance to Major

### Program Admission Requirements

- Mandatory meeting with advisor in the semester prior to applying to the program.
- Minimum cumulative GPA of 2.5 in all UWM and transfer courses.
- Completion of CURRINS 300 with a grade of B or better.

- Completion of MATH 175 and Oral and Written Communication Part A/OWC-A (or score of 4 or higher on English placement test) requirements with a C or better.
- Pass a Criminal Background Check (CBC) as required by the Wisconsin Department of Public Instruction for all applicants to a professional education preparation program.
- Successful application.
- Final candidate selection completed by program committee, and is contingent upon available space in the program.
- Advisor approval to proceed into the professional education semesters.

## Program Admission Requirements--Second Degree

For individuals with a bachelor's degree.

- Bachelor's degree from an accredited college or university.
- Mandatory meeting with advisor prior to applying to the program.
- Minimum cumulative GPA of 2.5 in all UWM and transfer courses.
- Pass a Criminal Background Check (CBC) as required by the Wisconsin Department of Public Instruction for all applicants to a professional education preparation program.
- Successful application.
- Final candidate selection completed by program committee, and is contingent upon available space in the program.

## Benchmarks

### Student Teaching

Students must complete an application to request/be assigned a student teaching placement. Deadlines for submission are posted by the Office of Clinical Experiences. (<http://uwm.edu/education/academics/clinical-experiences/>)

To be approved, students must **ALSO** meet the following criteria:

- Be admitted to the School of Education.
- Satisfactory completion of field evaluation in CURRINS 406.
- A grade of C or better in required professional semesters 1, 2, and 3 coursework.
- Minimum cumulative GPA of 2.75 in all UWM and transfer courses.
- Removal of all F or I (incomplete) grades in required program courses.
- Passing score or evidence of attempt on the Wisconsin Foundations of Reading Test.
- Demonstration of content knowledge proficiency with a GPA of 3.0 or higher in required coursework **OR** Passing score on the Praxis Subject Assessment exam: Middle School: Content Knowledge #5146.
- Updated TB test **results** submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Updated Criminal Background Check submitted to the Office of Clinical Experiences.

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information. We value our own continuous professional development to enhance the quality of the advising experience.

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### College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

### Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Education, BS: English and Language Arts, 4-12 Education

The English and Language Arts, 4-12 Education certification is available for students who plan to teach English to students in middle and high school. English Education candidates participate in hands-on, classroom-based field and student teaching experiences in urban area middle and high schools. Candidates who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching English subject areas in grades 4-12.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Admission Requirements (p. 408)

#### Program Core

Code	Title	Credits
CURRINS 300	Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)	3
Choose one: <sup>1</sup>		3
ANTHRO 213	American Indian Peoples of Wisconsin (GER-CD, GER-SS)	
ENGLISH 276	Introduction to American Indian Literature: (GER-CD, GER-HU)	
AIS 203	Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)	
HIST 263	North American Indian History Since 1887 (GER-CD, GER-SS)	
<b>Total Credits</b>		<b>6</b>

<sup>1</sup> Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class. Program may allow fulfillment of Act 31 with a 1-day workshop.

#### Content Area

Code	Title	Credits
CURRINS 234	Teachers as Writers (GER-OWCB, HU)	3
ENGLISH 212	Grammar and Usage	3
ENGLISH 215	Introduction to English Studies (OWC-B, GER-HU)	3
ENGLISH 233 or JAMS 201	Introduction to Creative Writing (GER-A) Media Writing	3
COMMUN 103	Public Speaking	3

CURRINS 233	Introduction to Children's and Young Adult Literature (GER-HU, highly recommended)	3
ENGLISH 276	Introduction to American Indian Literature: (GER-CD, GER-HU)	3
<b>Advanced Writing, Journalism, and the Composing Process</b>		
ENGLISH 430	Advanced Writing Workshop (GER-OWCB)	3
CURRINS 547	Curricular Applications of the Internet	3
JAMS 306	Feature and Magazine Article Writing: (journalism focused topic)	3
<b>Advanced Language, Speech Communication, and Linguistics</b>		
Select two of the following:		6
ENGLISH 400 or LINGUIS 350	Introduction to English Linguistics <sup>2</sup> Introduction to Linguistics	
ENGLISH 401	History of the English Language	
ENGLISH 403	Survey of Modern English Grammar	
COMMUN 335	Critical Analysis of Communication	
ENGLISH 404	Language, Power, and Identity <sup>2</sup>	
CURRINS 542	History and Politics of Second Language Education <sup>2</sup>	
CURRINS 543	Developing Bilingual Literacy <sup>2</sup>	
<b>Advanced Literature</b>		
<i>Survey I: Periodization/Historical, Genre, Focus</i>		
Select one of the following:		3
ENGLISH 301	Survey of English Literature, Beginnings to 1500	
ENGLISH 302	Survey of English Literature, 1500-1660	
ENGLISH 303	Survey of English Literature, 1660-1798	
ENGLISH 304	Survey of English Literature, 1798-1900	
ENGLISH 305	Survey of English Literature: 1900 to the Present	
ENGLISH 306	Survey of Irish Literature	
ENGLISH 307	Survey of American Literature to 1865	
ENGLISH 308	Survey of American Literature, 1865-1965	
ENGLISH 309	Survey of Contemporary American Literature	
ENGLISH 326	The Development of the Novel:	
ENGLISH 327	The Development of the Short Story	
ENGLISH 329	Film and Literature	
ENGLISH 341	The Development of Drama:	
ENGLISH 361	The Development of Poetry:	
ENGLISH 452	Shakespeare	
ENGLISH 454	Milton	
ENGLISH 456	Writers in English Literature, 1500-1660:	
ENGLISH 457	Writers in English Literature, 1660-1798:	
ENGLISH 458	Writers in English Literature, 1798-1900:	
ENGLISH 459	Writers in English Literature, 1900 to the Present:	
ENGLISH 460	Writers in American Literature, 1500-1900:	
ENGLISH 461	Writers in American Literature, 1900 to the Present:	

ENGLISH 504	Studies in Literature, 1660-1800:	
ENGLISH 505	Studies in Literature, 1800-1900:	
ENGLISH 623	Seminar in American Literature:	
ENGLISH 624	Seminar in Modern Literature:	
ENGLISH 625	Seminar in Literary History:	
ENGLISH 685	Honors Seminar:	
<i>Survey II: Literature and Culture</i>		
Select one of the following:		3
ENGLISH 332	LGBTQ+ Literature: (GER-HU)	
ENGLISH 372	Survey of American Indian Literature (GER-CD, GER-HU)	
ENGLISH 373	Survey of Ethnic Minority Literature (GER-CD, GER-HU)	
ENGLISH 374	Survey of U.S. Latino/a Literature (GER-CD)	
ENGLISH 375	Survey of Asian American Literature (GER-CD)	
ENGLISH 376	Survey of African-American Literature to 1930 (GER-CD)	
ENGLISH 377	Survey of African-American Literature, 1930 to the Present (GER-CD)	
ENGLISH 381	World Literatures Written in English:	
ENGLISH 463	Writers in African-American Literature: (GER-CD)	
ENGLISH 465	Women Writers:	
ENGLISH 514	Literature in Context:	
ENGLISH 515	Literature and the Other Arts:	
ENGLISH 517	Studies in African-American Literature:	
ENGLISH 518	Studies in Irish Literature:	
ENGLISH 520	Studies in American Indian Literature:	
ENGLISH 522	Studies in World Literature Written in English:	
ENGLISH 523	Studies in U.S. Latino/a Literature:	
ENGLISH 524	Studies in Asian-American Literature:	
ENGLISH 627	Seminar in Literature and Culture:	
ENGLISH 628	Seminar in Literature by Women:	
ENGLISH 629	Seminar in Literature and Sexuality:	
ENGLISH 630	Seminar in Literature and the Other Arts:	
ENGLISH 631	Seminar in African-American Literature:	
ENGLISH 632	Seminar in American Indian Literature:	
<i>Young Adult Literature</i> <sup>3</sup>		
CURRINS 650	Reading Interests of Adolescents	3
<i>Literary Critical Theory</i>		
Select one of the following:		3
ENGLISH 378	Survey of Current Literary and Cultural Theory	
ENGLISH 547	Studies in Theory and Criticism:	
ENGLISH 626	Seminar in Critical Theory:	
<b>Total Credits</b>		<b>48</b>

<sup>2</sup> Meets Reading Teacher Proficiency 3.<sup>3</sup> Meets Reading Teacher Proficiency 6.

## Professional Education Requirements

Code	Title	Credits
ED POL 375	Cultural Foundations of Education	3
or ED POL 530	Urban Education: Foundations	
ED PSY 330	Introduction to Learning and Development	3

The following courses will be taken in a sequenced 3 semesters starting after admission to the program.

Semester 1 (Spring)		
CURRINS 547	Curricular Applications of the Internet	3
CURRINS 630	Methods for Teaching, Managing, and Assessing English and Language Arts I <sup>4, 5</sup>	6
CURRINS 650	Reading Interests of Adolescents	3
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language <sup>6</sup>	3

Semester 2 (Fall)		
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School <sup>7</sup>	3
CURRINS 631	Methods for Teaching, Managing, and Assessing English and Language Arts II	6
CURRINS 632	Fieldwork in English and the Language Arts	5

Semester 3 (Spring)		
CURRINS 452	Student Teaching in English <sup>8</sup>	2-6
CURRINS 633	English and Language Arts Student Teaching Seminar	3

**Total Credits** **40-44**

<sup>4</sup> Meets Reading Teacher Proficiency 1.<sup>5</sup> Meets Reading Teacher research requirement with an additional 1 credit of independent study.<sup>6</sup> Meets Reading Teacher Proficiency 4.<sup>7</sup> Meets Reading Teacher Proficiency 5.<sup>8</sup> Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 409) for details.

## Additional Requirements for Graduation

- Completion of University GER;
- Completion of CURRINS 452 with a C+ or better;
- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Minimum Cumulative GPA of 2.75;
- Satisfactory completion of a minimum 120 credits; and
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.

## Advance to Major

### Program Admission Requirements

Application to the English Education program requires satisfactory completion of the requirements listed below. For more information about



the application process, visit our website (<https://uwm.edu/education/academics/english-language-arts/>).

- **English Composition:** Achieve a placement level of 4 or higher on the English Placement Test, or complete ENGLISH 102 or equivalent with a grade of C or better.
- **Completion of CURRINS 300** with a grade of C or better.
- **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.
- **A 2.75 cumulative GPA** in all English content courses.
- **A minimum of 58 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- **Meeting with faculty advisor** to review admission application. Faculty signature required on application.

## Benchmarks Student Teaching

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website (<https://uwm.edu/education/academics/clinical-experiences/>).

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education.
- Completion of all required coursework.
- Minimum 2.5 cumulative GPA.
- Minimum of 2.75 GPA in all content area and professional education courses.
- Have a GPA of 3.0 or better in the major, **OR** Pass the Praxis Subject Assessment exam: English Language Art: Content Knowledge #5038, **OR** Have a Passing Score on content area Portfolio.
- Removal of all F or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences.
- Criminal Background Check submitted to the Office of Clinical Experiences.
- Completion of CURRINS 630, CURRINS 631, CURRINS 632, CURRINS 633, and CURRINS 650 with a C+ or better.

## Undergraduate Advising

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### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.

- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### Scheduling an Appointment

Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
[soeinfo@uwm.edu](mailto:soeinfo@uwm.edu)

### Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Education, BS: English as a Second Language Education

The English as a Second Language (ESL) Program is available as a major or a minor. An ESL major is for students who plan to teach English to non-native speakers from birth to age 21, in PK through 12th grade. Students must select the Early Childhood through Adolescence ESL

major for grades PK through 12th grade. The ESL minor will result in an additional certification at the same level as your initial license.

Students at this level of certification may also add the following licenses while pursuing or after obtaining their ESL licensure as their initial certification:

- World Languages

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Admission Requirements (p. 411)

#### Program Core

Code	Title	Credits
COMMUN 103	Public Speaking (GER-HU, fulfilled prior to program admission)	3
CURRINS 300	Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)	3
<b>Minority Group Relations (Act 31)</b>		<b>3</b>
A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses.		
ANTHRO 213	American Indian Peoples of Wisconsin (GER-CD, GER-SS)	
ENGLISH 276	Introduction to American Indian Literature: (GER-CD, GER-HU)	
AIS 203	Western Great Lakes American Indian Community Life of the Past (GER-CD, GER-SS)	
HIST 263	North American Indian History Since 1887 (GER-CD, GER-SS)	
<b>Total Credits</b>		<b>9</b>

#### Content Area

Code	Title	Credits
ENGLISH 400 or LINGUIS 350	Introduction to English Linguistics Introduction to Linguistics	3
LINGUIS 510	Methodologies in English Language Teaching	3
Select one of the following:		3
ENGLISH 212	Grammar and Usage	
ENGLISH 403	Survey of Modern English Grammar	
ENGLISH 633	Seminar in Rhetoric and Professional Writing:	
LINGUIS 406	Advanced English Grammar	
Select one of the following:		3
LINGUIS 420	Introduction to Second Language Acquisition	
LINGUIS 520	Advanced Second Language Acquisition:	
CURRINS 501	Language Acquisition for Children of Diverse Backgrounds	

Select one of the following:		3
LINGUIS 100	The Diversity of Human Language	
LINGUIS 210	Power of Words	
LINGUIS 430	Language and Society	
ENGLISH 404	Language, Power, and Identity	
CURRINS 541	Principles and Methods of Teaching ESL (taken with CURRINS 443)	3
CURRINS 542	History and Politics of Second Language Education	3
CURRINS 543	Developing Biliteracy	3
CURRINS 546	Language, Content, and Comprehensible Input	3
CURRINS 655	Applied Educational Linguistics	3
<b>Total Credits</b>		<b>30</b>

### Professional Education Requirements <sup>1</sup>

Code	Title	Credits
ED POL 375	Cultural Foundations of Education	3
Select one of the following:		3
ED PSY 330	Introduction to Learning and Development <sup>2</sup>	
ED PSY 631	Cognition: Learning, Problem Solving and Thinking	
ED PSY 640	Human Development: Theory and Research	
Select one of the following:		3
EXCEDUC 300	The Exceptional Individual	
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language <sup>2</sup>	
EXCEDUC 600	Survey of Exceptional Education	
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
CURRINS 350	Field Seminar in Language Education (must be taken concurrently with CURRINS 443)	1
CURRINS 443	Pre-Student Teaching in English as a Second Language Education	2
CURRINS 444	Student Teaching in English as a Second Language Education <sup>3</sup>	6
CURRINS 445	Seminar in Language Education (must be taken concurrently with CURRINS 444)	3
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.

<sup>2</sup> Preferred course.

<sup>3</sup> Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 411) for details.

## Additional Requirements for Graduation

- Minimum cumulative grade point average of 2.75, including any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Satisfactory completion of a minimum 120 credits;
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee;
- Program Portfolio - based on Wisconsin Teacher Standards #9 and #10; and
- Completion of the Pedagogical Knowledge Assessment (PKA) (required for certification).

## Advance to Major

### Program Admission Requirements

Application to the English as a Second Language program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website (<https://uwm.edu/education/academics/second-language/>).

- **Completion of OWC-A**
- **Completion of QL-A**
- **Completion of CURRINS 300 , Introduction to Teaching**, with a grade of C or better.
- **Completion of COMMUN 103** with a grade of C or better.
- A **2.75 minimum GPA** in all English as a Second Language content courses completed prior to program admission.
- A **2.5 minimum GPA** in all UWM and transfer courses at time of admission application.
- A **minimum of 48 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all content area courses completed at the time of application.
- The Wisconsin Department of Public Instruction requires that all applicants to a professional education preparation program pass a **Criminal Background Check (CBC)** prior to admission.

## Benchmarks

### Student Teaching

Students must complete an application to request/be assigned a student teaching placement. Deadlines for submission are posted by the Office of Clinical Experiences. (<http://uwm.edu/education/academics/clinical-experiences/>)

To be approved, students must **ALSO** meet the following criteria:

- Be admitted to the School of Education.
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student's faculty advisor.
- Have a minimum cumulative GPA of 2.75 on all undergraduate coursework, including transfer courses.
- Have a content GPA of 3.0 or better, **OR** Pass the Praxis Subject Assessment exam: Teaching English to Speakers of Other Languages: Content Knowledge #5362.
- Removal of all F and/or I (incomplete) grades in courses that count toward graduation or certification.
- TB test **results** submitted to the Office of Clinical Experiences (may take up to 6 weeks).

- Criminal Background Check submitted to the Office of Clinical Experiences.

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- Keep a record of your academic progress.
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GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

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## Commencement Honors

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## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Education, BS: Inclusive Early Childhood Teacher Education

The Inclusive Early Childhood Teacher Education (IECTE) Program is a signature dual licensure program for students interested in a Bachelor of Science in Education degree with licensure in both Early Childhood Education and Early Childhood Special Education. Program students also have the opportunity to add certifications in English as Second Language and/or Bilingual Education. This multi-licensure approach is grounded in the belief that a complex understanding of multiple knowledge frameworks is essential to providing meaningful educational experiences for all children birth through third grade. The IECTE Program seeks to educate future teachers with the knowledge and disposition to use equitable and effective practices that break down barriers and make learning accessible for all. It is a one-of-a-kind teacher education journey with the possibility of completing the dual licensure program in four years (including one summer) through real-world experiences and a supportive program structure. The program provides experiences in a cross-section of sites where future employment opportunities exist, including public and charter primary schools, Head Start, early intervention settings, and preschools and other community-based educational settings. The IECTE Program responds to the local needs of the Milwaukee Metropolitan school districts, as well as the national call for teachers who have the knowledge and disposition to effectively educate and celebrate the diversity of young children.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

The following GER course is *highly recommended* for students in the Inclusive Early Childhood Teacher Education program.

Code	Title	Credits
CURRINS 234	Teachers as Writers	3

### Professional Courses

#### Non-Sequenced Courses

Code	Title	Credits
ART ED 130	Multicultural Art and Visual Learning in Elementary Education	3
CURRINS 233	Introduction to Children's and Young Adult Literature	3

CES 210	Introduction to Conservation and Environmental Science	3
ED POL 375	Cultural Foundations of Education	3
ED PSY 330	Introduction to Learning and Development	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3
MATH 176	Mathematical Explorations for Elementary Teachers II	3
MUS ED 260	Making Music Connections with Children	3
TCH LRN 323	Teaching of Social Studies: Inclusive Early Childhood Education	3
TCH LRN 338	Teaching of Science in Inclusive Early Childhood Education	3
TCH LRN 430	Perspectives on Disability in Early Childhood Education	3
TCH LRN 511	Curriculum and Guidance for Social Emotional Learning	3
TCH LRN 512	Reflective Practice in Inclusive Early Childhood Teaching and Learning	3
TCH LRN 520	Developing Mathematical Thinking in Young Children	3
TCH LRN 612	Collaborations for Teachers with Families, Schools, and Communities	3
TCH LRN 652	Developmental Assessment of Young Children with Disabilities	3
Choose one:		3
AIS 203	Western Great Lakes American Indian Community Life of the Past	
HIST 263	North American Indian History Since 1887	
ANTHRO 213	American Indian Peoples of Wisconsin	
ENGLISH 276	Introduction to American Indian Literature:	
<b>Total Non-Sequenced Credits</b>		<b>51</b>

### Sequenced Courses

Code	Title	Credits
<b>Spring 1</b>		
TCH LRN 109	Field Experience with Families and Communities	1
TCH LRN 312	Models and Issues for Inclusive Early Childhood Education	3
<b>Spring 2</b>		
TCH LRN 209	Field Work in Inclusive EC: Dual Language Learners	2
TCH LRN 302	Inclusive Curriculum Foundations in Early Childhood	2
TCH LRN 501	Language Acquisition for Children of Diverse Backgrounds	3
<b>Fall 3</b>		
TCH LRN 303	Inclusive Curriculum Design in Early Childhood	2

TCH LRN 309	Inclusive Early Childhood Field Experiences: Preschool and Kindergarten	3
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TCH LRN 502	Emergent Literacy and Bilinguality in the Inclusive Early Childhood Classroom	3
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TCH LRN 569	Inclusive Early Childhood Curriculum and Methods: Preschool	3
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**Spring 3**

TCH LRN 409	Inclusive Early Childhood Field Experiences: Primary	3
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TCH LRN 504	Methods for Bilinguality and Language Arts in Inclusive Primary Classrooms	3
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TCH LRN 570	Inclusive Early Childhood Curriculum and Teaching: Primary	3
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**Summer 3**

CURRINS 541	Principles and Methods of Teaching ESL	3
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TCH LRN 509	Advanced Field Experience in Inclusive Early Childhood Education	3
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TCH LRN 568	Inclusive Early Childhood Care, Curriculum, and Teaching: Birth to Three	3
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TCH LRN 647	Inclusive Early Childhood Field Experiences: Birth to Three	3
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**Spring 4**

*Option 1: Education Degree, Early Childhood Education*

TCH LRN 601	Student Teaching Seminar in Inclusive Early Childhood Education	3
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TCH LRN 609	Student Teaching in Inclusive Early Childhood Education	12
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*Option 2: Education Degree, Early Childhood Education, plus Early Childhood Certification*

TCH LRN 608	Practicum in Inclusive Early Childhood Education Without Certification	9
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**Total Sequenced Credits 52-58**

**Additional GER and elective credits to meet minimum 120 credits for graduation**

**Program Benchmarks (p. 402)**

**Additional Requirements for Graduation:**

- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- Minimum cumulative GPA of 2.75 on professional education courses
- Satisfactory completion of a minimum of 120 credits
- Completion of the last year of coursework (30 credits) in residence at UWM

**Inclusive EC with Licensure:**

- Successfully complete an approved reading assessment (e.g., WiFort assessment or WiFort alternative portfolio)
- Demonstration of successful completion of the Pedagogical Knowledge Assessment (PKA).

**Benchmarks**

Students must meet benchmarks at several points during the program and prior to student teaching. Benchmarks are monitored through

tracking systems and advising. A student will be restricted from moving forward in the program if the benchmarks are not completed.

**Admission**

- C or better in ENGLISH 102
- C or better in MATH 175
- C or better in TCH LRN 109
- C or better in TCH LRN 312
- Must be enrolled in OR have completed with a C or better TCH LRN 209
- Must be enrolled in OR have completed with a C or better TCH LRN 501
- Must be enrolled in OR have completed with a C or better TCH LRN 302
- Cleared Criminal Background Check on file
- Minimum 2.5 cumulative grade point average
- Mandatory meeting with advisor

**Content Knowledge**

Prior to student teaching, choose one of the options below.

**Option A: Coursework**

Students earn a cumulative GPA of 3.0 or higher in the following courses:

Code	Title	Credits
ENGLISH 102	College Writing and Research	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3
TCH LRN 323	Teaching of Social Studies: Inclusive Early Childhood Education	3
TCH LRN 338	Teaching of Science in Inclusive Early Childhood Education	3
TCH LRN 502	Emergent Literacy and Bilinguality in the Inclusive Early Childhood Classroom	3
TCH LRN 520	Developing Mathematical Thinking in Young Children	3

**Option B: Test (Score)**

Students demonstrate a score of 157 or above on the Praxis 5018. This demonstration is required 2 semesters prior to student teaching.

**Student Teaching**

Prior to student teaching, review the following with your advisor:

- Minimum cumulative GPA of 2.75 on all UWM and transfer courses
- C or higher in the IECTE professional courses
- At least one attempt of the Wisconsin Foundations of Reading Test (WiFoRT)
- Successful Completion of the Content Knowledge Requirement
  - 3.0 in the specified content courses
  - Passing score on the ECE Praxis Subject Assessment 5018
- ESL certification only: PRAXIS Subject Assessment Exam #5362 – Teaching of English to Speakers of Other Languages, with a passing score of 149 or higher or minimum 3.0 GPA in CURRINS 541, 542, 543, 546, 655
- Bilingual certification only: ACTFL OPI exam – A minimum score of Advanced-Low (see advisor for details)

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### How to Prepare for an Advising Meeting

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- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
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- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

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### Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Education, BS: Mathematics Education, Grades 4-12

The Mathematics Education Program is available for students who plan to teach mathematics in 6th through 12th grade. Mathematics Program students gain real world experience in the classroom through student teaching or on-the-job experiences at area schools. Students who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching mathematics subject areas in those grades. Students at this level of certification may add the following licenses while pursuing or after obtaining their Mathematics licensure as their initial certification:

- Bilingual
- English as a Second Language

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Admission Requirements (p. 415)

#### Program Core

Code	Title	Credits
COMMUN 103	Public Speaking (GER-HU, fulfilled prior to program admission)	3
CURRINS 328 or CURRINS 300	Introduction to Teaching Science and Mathematics in Middle and High School Introduction to Teaching: Colloquium and Fieldwork	3
ED PSY 330	Introduction to Learning and Development	3
Choose one: <sup>1</sup>		3
ANTHRO 213	American Indian Peoples of Wisconsin (GER-CD, SS)	
ENGLISH 276	Introduction to American Indian Literature: (GER-CD, HU)	
AIS 203	Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)	

HIST 263	North American Indian History Since 1887 (GER-CD, SS)	
<b>Total Credits</b>		<b>12</b>

<sup>1</sup> Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class. Program may allow fulfillment of Act 31 with a 1-day workshop.

### Content Area

Code	Title	Credits
MATH 231	Calculus and Analytic Geometry I (QL-B, GER-NS)	4
or MATH 221	Honors Calculus I	
MATH 232	Calculus and Analytic Geometry II	4
or MATH 222	Honors Calculus II	
MATH 240	Matrices and Applications	3
or MATH 234	Linear Algebra and Differential Equations	
MATH 341	Seminar: Introduction to the Language and Practice of Mathematics	3
MATH 431	Modern Algebra with Applications	3
MATH 451	Axiomatic Geometry	3
MATH 575	High School Mathematics from an Advanced Viewpoint	3
MTHSTAT 215	Elementary Statistical Analysis	3
Any 300-level or about MATH course or MATH 233-suggested courses:		3
MATH 305	Introduction to Mathematical and Computational Modeling	
or MATH 405	Mathematical Models and Applications	
MATH 313	Linear Programming and Optimization	
or MATH 315	Mathematical Programming and Optimization	
MATH 320	Introduction to Differential Equations	
MATH 325	Vector Analysis	
MATH 405	Mathematical Models and Applications	
MATH 413	Introduction to Numerical Analysis	
MATH 417	Computational Linear Algebra	
MATH 451	Axiomatic Geometry	
MATH 523	Advanced Calculus I	
MATH 535	Linear Algebra	
<b>Total Credits</b>		<b>29</b>

### Professional Education Requirements

**MACSTEP Sequence** - Milwaukee Area Collaborative Secondary Science (and Math) Teacher Education Program. Formal admission to the School of Education required. A grade of C or better must be met for all professional requirements, including student teaching.

Code	Title	Credits
<b>Summer</b>		
CURRINS 332	Teaching of Mathematics 3	3
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	3
<b>Fall</b>		
CURRINS 516	Field Work in Middle School	3

CURRINS 532	Teaching of Mathematics: Secondary	3
CURRINS 541	Principles and Methods of Teaching ESL	3
EXCEDUC 601	Behavioral Supports	3

### Spring

<b>Student Teaching (Spring) <sup>2</sup></b>		
Take 12 credits:		12
CURRINS 431	Student Teaching in Mathematics	
CURRINS 432	Student Teaching Mathematics Seminar	3
<b>Total Credits</b>		<b>33</b>

<sup>2</sup> Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 415) for details.

### Additional Requirements for Graduation

- A minimum cumulative GPA of 2.5.
- A minimum GPA of 3.0 in all mathematics content area courses and a minimum 2.75 GPA in all professional education courses.
- Satisfactory completion of a minimum 120 credits.
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.

## Advance to Major

### Program Admission Requirements

Application to the Mathematics Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website (<http://uwm.edu/education/academics/mathematics/>).

- **Satisfaction of QL-A, QL-B, OWC-A, and OWC-B.**
- **Completion of** CURRINS 328, Introduction to Teaching Science and Mathematics in Middle and High School, with a grade of C or better.
- **Completion of** COMMUN 103 with a grade of C or better.
- **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.
- **A minimum of 58 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- **Meeting with faculty advisor** to review admission application. Faculty signature required on application.
- **Pass a Criminal Background Check (CBC)** as required by the Wisconsin Department of Public Instruction for all applicants to a professional education preparation program.

## Benchmarks

### Student Teaching

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website (<https://uwm.edu/education/academics/clinical-experiences/>).

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.75; 2.5;
- A minimum of 2.75 in all your professional education courses;
- Content Knowledge Requirement: A minimum of 3.0 in all your mathematics content used for certification or passing score on the Praxis II General Mathematics Content Test;
- C or better in all mathematics content being used for certification;
- C or better in all professional sequence courses;
- TB test results submitted to the Office of Clinical Experiences; and
- Passing Criminal Background Check submitted to the Office of Clinical Experiences.

## Undergraduate Advising

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## Honors College Degree and Honors College Degree with Distinction

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## Commencement Honors

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## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Education, BS: Science Education, Grades 4-12

The Science Education program is available for students who plan to teach middle or high school science. Science Education students gain real world experience in the classroom through student teaching or on-the-job experiences at area schools. Students who satisfactorily complete the program requirements also meet the Wisconsin teacher certification requirements for teaching science subject areas in those grades. Students at this level of certification may add the following licenses while pursuing or after obtaining their Science licensure as their initial certification:

- Bilingual
- English as a Second Language
- World Languages

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Admission Requirements (p. 418)

#### Program Core

Code	Title	Credits
COMMUN 103	Public Speaking (GER-HU, fulfilled prior to program admission)	3
CURRINS 328	Introduction to Teaching Science and Mathematics in Middle and High School (fulfilled prior to program admission)	3



or CURRINS 300	Introduction to Teaching: Colloquium and Fieldwork
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**Act 31**

Choose one: 3 cr

ANTHRO 213	American Indian Peoples of Wisconsin
ENGLISH 276	Introduction to American Indian Literature:
AIS 203	Western Great Lakes American Indian Community Life of the Past
HIST 263	North American Indian History Since 1887

A component of the Human Relations Requirement for Teacher Certification can be met by completing a 1-day workshop.

**Conservation of Natural Resources**

Requirement met in CURRINS 428 and CURRINS 519

**History and Philosophy of Science**

CURRINS 499	Independent Reading:	2-3
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**Total Credits 8-9**

**Content Area**

Students complete the core science coursework and then select two specializations (if undergraduate) or one specialization (if post-baccalaureate). The selections are made in consultation with a faculty advisor **prior** to applying for admission to the School of Education. Contact your faculty advisor for the "MACSTEP Program Packet," which includes course lists and specific details regarding the core science content and the specializations.

Code	Title	Credits
ATM SCI 100	Survey of Meteorology	3
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
GEO SCI 100	Introduction to the Earth	3
PHYSICS 120	General Physics I (Non-Calculus Treatment)	4
PHYSICS 122	General Physics II (Non-Calculus Treatment)	4
<b>Total Credits</b>		<b>32</b>

**Specializations**

Specializations are in either Biology, Chemistry, Earth and Space Science, Environmental Science, or Physics. Each specialization is at least 10 additional credits in that area (not including the Core Content Courses in that discipline). Courses are selected with consultation with a faculty advisor.

Undergraduate students take 2 specializations (minimum 20 credits). Post-baccalaureate students take 1 specialization (minimum 10 credits).

Code	Title	Credits
<b>Biology Specialization-Suggested Coursework</b>		
BIO SCI 310	General Ecology	4
BIO SCI 325	Genetics	4
Select one of the following:		3-4

BIO SCI 202	Anatomy and Physiology I
BIO SCI 315	Cell Biology
BIO SCI 383	General Microbiology

Code	Title	Credits
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**Chemistry Specialization-Suggested Coursework**

CHEM 221	Elementary Quantitative Analysis	4
CHEM 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
CHEM 341	Introductory Survey of Organic Chemistry	3
CHEM 501	Introduction to Biochemistry	3

Code	Title	Credits
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**Earth and Space Science Specialization-Suggested Coursework**

ASTRON 103	Survey of Astronomy	3
ASTRON 104	Astronomy Laboratory	1
GEO SCI 102	Principles of Historical Geology	3
GEO SCI 150	Introduction to Ocean Sciences	3
GEO SCI 151	Ocean Sciences Laboratory	1

Code	Title	Credits
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**Environmental Science Specialization-Suggested Coursework**

BIO SCI 310	General Ecology	4
CES 210	Introduction to Conservation and Environmental Science	3
or GEOG 350	Conservation of Natural Resources	
Select classes from Biology, Conservation and Environmental Science, and/or Freshwater Sciences in consultation with your faculty advisor.		3

**Professional Education Requirements**

**MACSTEP Sequence** - Milwaukee Area Collaborative Secondary Science (and Math) Teacher Education Program. Formal admission to the School of Education required. A grade of C or better must be met for all professional requirements, including student teaching.

Code	Title	Credits
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<b>Summer</b>		
CURRINS 518	Science Methods I: Middle/Secondary Methods and Fieldwork	3
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	3

Code	Title	Credits
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<b>Fall</b>		
CURRINS 516	Field Work in Middle School	3
CURRINS 519	Science Methods II: Middle/Secondary Methods and Fieldwork	6
CURRINS 541	Principles and Methods of Teaching ESL	3
EXCEDUC 601	Behavioral Supports	3

Code	Title	Credits
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CURRINS 428	Student Teaching Science Seminar	3
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**Student Teaching (Spring) <sup>1</sup>**

Take 12 credits:		12
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<sup>1</sup> Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 418) for details.

### Additional Requirements for Graduation

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- A minimum GPA of 3.0 in all science content area courses;
- Satisfactory completion of a minimum 120 credits; and
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.

## Advance to Major Program Admission Requirements

Application to the Science Education program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website (<https://uwm.edu/education/academics/science/>).

- **Satisfaction of QL-A, QL-B, OWC-A, and OWC-B.**
- **Completion of COMMUN 103**, with a grade of C or better. Note: Completion of this course also fulfills part of the Humanities GER requirement.
- **Completion of CURRINS 328**, Introduction to teaching Science in Middle and High School, with a grade of C or better.
- **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.
- **A 2.75 cumulative GPA** in all Science content courses.
- **A minimum of 58 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all the Core Curriculum courses completed at the time of application.
- **Meeting with faculty advisor** to review admission application. Faculty signature required on application.
- **Pass a Criminal Background Check (CBC)** as required by the Wisconsin Department of Public Instruction for all applicants to a professional education preparation program.

## Benchmarks Student Teaching

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website (<https://uwm.edu/education/academics/clinical-experiences/>).

To be approved for placement, you must meet the following criteria:

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- Completion of all required coursework;
- Cumulative GPA of a minimum 2.75;
- A minimum of 2.75 in all professional education courses;

- Content Knowledge Requirement: A minimum of 3.0 in all your science content used for certification or passing score on the Praxis II General Science Content Test;
- C or better in all science content being used for certification;
- C or better in all professional sequence courses;
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## Undergraduate Advising

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## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Education, BS: Social Studies Education

The Social Studies Education Program is available for candidates who plan to teach social studies to learners in middle through high school.

Social Studies Education Program candidates are exposed to relevant field experiences at area schools through an initial semester long middle level placement and a year-round high school student teaching placement. Candidates who satisfactorily complete the Social Studies Education Program requirements meet the Wisconsin teacher certification requirements for EAA Licensure (ages 10 to 21).

Undergraduate and/or Post-Baccalaureate candidates who satisfactorily complete the Social Studies Education Program will be granted a Wisconsin EAA license in one or more of the following social studies subject areas: Broad Field Social Studies, Economics, Geography, History, Political Science, Psychology, and Sociology.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Core

Program core is comprised of foundational courses and should be completed prior to beginning the professional education semesters.

Code	Title	Credits
CES 210	Introduction to Conservation and Environmental Science	3

or GEOG 350	Conservation of Natural Resources	
COMMUN 103	Public Speaking (pass with a C or better (GER-HU))	3
CURRINS 300	Introduction to Teaching: Colloquium and Fieldwork (pass with a C or better)	3
ED POL 375	Cultural Foundations of Education	3
<b>Total Credits</b>		<b>12</b>

## Content Area Requirements

The following content coursework must be completed prior to acceptance to the program (in addition to the requirements listed under Program Admission Requirements/Advance to Major tab).

Code	Title	Credits
<i>History</i>		
HIST 151	American History: 1607 to 1877	3
HIST 152	American History: 1877 to the Present	3
HIST 101	Western Civilization: Ancient World to 1500	3
or HIST 131	World History to 1500	
HIST 102	Western Civilization: 1500 to the Present	3
or HIST 132	World History Since 1500	
HIST 595	The Quantitative Analysis of Historical Data (QLB)	3
Select 6 credits of HIST level 300 or higher.		6
<i>Political Science</i>		
POL SCI 104	Introduction to American Government and Politics	3
POL SCI 105	State Politics	3
<i>Geography</i>		
GEOG 110	The World: Peoples and Regions	3
GEOG 120	Our Physical Environment	3
or GEOG 350	Conservation of Natural Resources	
<i>Sociology/Psychology</i>		
PSYCH 101	Introduction to Psychology	3
SOCIOL 101	Introduction to Sociology	3
<i>Economics</i>		
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
<b>Total Credits</b>		<b>45</b>

## Program Admission Requirements (p. 420)

### Professional Education Requirements

A grade of C or better is required in professional education semester coursework in order to advance in the program. The professional requirements should be completed **after full admission** to the Social Studies Education program.

Code	Title	Credits
<b>Spring 1</b>		
CURRINS 321	Introduction to the Teaching of Social Studies	1
CURRINS 323	Teaching of Social Studies:	2

CURRINS 516	Field Work in Middle School <sup>1</sup>	3
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
ED PSY 330	Introduction to Learning and Development	3
ED POL 534	Students Placed At Risk: Deconstructing Risk, Defining Promise	3
<b>Fall 1</b>		
CURRINS 415	Preliminary Student Teaching: <sup>1</sup>	3
CURRINS 523	Current Issues and Practices in the Teaching of Social Studies	3
CURRINS 541	Principles and Methods of Teaching ESL	3
ED POL 535	Educating Students Placed At Risk: Pedagogies of Engagement	3
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language	3
<b>Spring 2</b>		
CURRINS 423	Student Teaching in Social Studies <sup>1</sup>	12
<b>Total Credits</b>		<b>42</b>

<sup>1</sup> Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 420) for details.

### Additional Requirements for Graduation

- Completion of University GER requirements;
- Minimum of a C or better and GPA of 2.75 in all professional education courses;
- Minimum cumulative GPA of 2.75;
- Satisfactory completion of a minimum 120 credits; and
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.

### Addition Requirements for Certification

- Completion of an approved course or workshop on the history, culture, and sovereignty rights of Wisconsin Indians to fulfill the ACT 31 legislation requirement of the Wisconsin Department of Public Instruction;
- Successful completion of a pedagogical knowledge assessment required for certification; and
- Minimum cumulative GPA of 2.75 in all UWM and transfer courses.

## Advance to Major

### Program Admissions Requirements

Application to the Social Studies program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website (<https://uwm.edu/education/academics/social-studies/>).

- Pass a Criminal Background Check (CBC) as required by the Wisconsin Department of Public Instruction for all applicants to a professional education preparation program.
- **Completion of OWC-A.**
- **Completion of QL-A.**
- **Pass COMMUN 103** with a C or better.

- **Pass CURRINS 300** with a C or better.
- **A 2.5 minimum cumulative GPA** in all UWM and transfer courses at the time of admission application.
- **A 2.75 cumulative GPA** in all Content Area courses (economics, geography, history, psychology, political science, and sociology) listed in the program requirements.
- **Meeting with faculty advisor** to review admission application. Faculty signature required on application.

## Benchmarks

### Student Teaching

Students must complete paperwork in order to be assigned a student teaching placement. Student teaching deadlines (February or April) are posted on the Office of Clinical Experiences website (<https://uwm.edu/education/academics/clinical-experiences/>).

To be approved for placement, you must meet the following criteria:

- Be admitted to the School of Education;
- Completion of all required coursework;
- Cumulative GPA of a minimum 2.5;
- Minimum of 2.75 GPA in all Professional Education courses taken thus far;
- Have a GPA of 3.0 or better in the Content Area courses, OR Pass the Praxis Subject Assessment exam: Social Studies: Content Knowledge #5081;
- Removal of all F or I grades in courses required for the program;
- TB test **results** submitted to the Office of Clinical Experiences; and
- Updated Criminal Background Check submitted to the Office of Clinical Experiences.

## Undergraduate Advising

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Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

### Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Education, BS: World Language Education

The World Languages Program is available for students as a major or a minor. A World Language major is for students who plan to teach a world language to children from birth to age 21, in PK through 12th grade. The World Language minor will result in the additional certification at the same level as your initial license.

Students who satisfactorily complete the undergraduate program (as a major or minor) will be granted a license in one of the following languages: American Sign Language, Chinese, French, German, Italian, Latin, Spanish, Japanese, or Arabic.

Students seeking a World Language certification (major or minor) may also add the following licenses:

- Bilingual (only available for Spanish, World Language Licenses; a bilingual license will allow you to teach Spanish for Heritage Speakers only)
- English as a Second Language

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Admission Requirements (p. 426)

#### Program Core

Code	Title	Credits
COMMUN 103	Public Speaking (GER-HU, fulfilled prior to program admission)	3
CURRINS 300	Introduction to Teaching: Colloquium and Fieldwork (fulfilled prior to program admission)	3

#### Minority Group Relations (Act 31) 3

A component of the Human Relations Requirement for Teacher Certification is met by completing one of the following courses or a one-day seminar.

ANTHRO 213	American Indian Peoples of Wisconsin (GER-CD)	
ENGLISH 276	Introduction to American Indian Literature: (GER-CD)	
AIS 203	Western Great Lakes American Indian Community Life of the Past (GER-CD)	
HIST 263	North American Indian History Since 1887 (GER-CD)	

**Total Credits 9**

### Language Content Area

Complete total credits in chosen language, plus any prerequisites. Initial language courses (levels 1-4) may be satisfied through language proficiency examinations. See academic advisor for details.

Code	Title	Credits
<b>American Sign Language</b>		
EXCEDUC 301	American Sign Language I	3
EXCEDUC 302	American Sign Language II	3
EXCEDUC 303	American Sign Language III	3
EXCEDUC 304	American Sign Language IV	3
EXCEDUC 305	American Sign Language V	3
EXCEDUC 306	American Sign Language VI	3
EXCEDUC 325	ASL V Lab	1
EXCEDUC 326	ASL VI Lab	1
EXCEDUC 327	Classifiers Lab	1
EXCEDUC 330	Deaf History	3
EXCEDUC 346	Skill Development: Semantics	3
EXCEDUC 352	American Deaf Culture	3
EXCEDUC 358	ASL/English Linguistics I	3
EXCEDUC 363	ASL/English Linguistics II	3

EXCEDUC 500	Fingerspelling & Numbers	3
EXCEDUC 510	Classifiers	3
EXCEDUC 520	ASL Literature	3
<b>Total Credits</b>		<b>45</b>

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Chinese</b>		
Reading, Writing, and Linguistic Content		
CHINESE 301	Fifth Semester Chinese	4
CHINESE 302	Sixth Semester Chinese	4
CHINESE 401	Seventh Semester Chinese	3
CHINESE 402	Eighth Semester Chinese	3
Literature Electives (choose two):		6
CHINESE 220	Introduction to Chinese Poetry	
COMPLIT 230	Literature and Society: (Chinese Literature Before the 20th Century)	
COMPLIT 360	Seminar in Literature and Cultural Experience: (Modern Chinese Literature)	
Cultural Electives (choose two):		6
ARTHIST 382	Chinese Art and Architecture	
ARTHIST 480		
ARTHIST 481	Topics in Chinese Art:	
CHINESE 150	Contemporary Chinese Society and Culture	
CHINESE 160	A Taste of China: Learning Chinese Culture and Society through Cuisine	
CHINESE 200	Chinese Calligraphy	
CHINESE 320	Contemporary Chinese Societies through Film	
CHINESE 330	Chinese Language and Culture	
CHINESE 353	Popular Culture, Entertainment, and China's Modernization	
CHINESE 397	Study Abroad:	
CHINESE 441	Business Chinese	
ECON 193	First-Year Seminar: (Growth and Development in China, Japan, and Korea)	
ENGLISH 316	World Cinema: (Hong Kong Cinema)	
HIST 175	East Asian Civilization to 1600	
HIST 269	Asian Americans in Historical Perspective	
HIST 376	Premodern China	
HIST 377	Modern China	
HIST 378	Revolution in China	
PHILOS 204	Introduction to Asian Religions	
POL SCI 314	Chinese Politics and Foreign Policy	
Cultural Elective (choose one):		1
ARTHIST 481	Topics in Chinese Art:	
CHINESE 699	Advanced Independent Study	
Linguistics, Literature, or Cultural Elective		
AMLLC 699	Advanced Independent Study	3
<b>Total Credits</b>		<b>30</b>

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>French</b>		
Reading and Writing Development		
FRENCH 325	Intensive Grammar and Usage	3
Reading and Writing Development Elective (choose one):		3
FRENCH 303	Conversation and Composition: Intermediate Level	
FRENCH 427	Advanced Written Expression	
FRENCH 592	Seminar in French Language:	
Linguistics		
FRENCH 392	Phonetics	3
Literature		
FRENCH 332	Reading French Texts	3
Literature Electives (choose two):		6
FRENCH 357	Literature of the French-Speaking World in Translation:	
FRENCH 431	Seminar in Literature of the Francophone World:	
FRENCH 433	Seminar in French Literature:	
FRENCH 510	Seminar on Masterpieces of Literature Written in French:	
FRENCH 520	Seminar in Contemporary French Literature:	
Culture		
FRENCH 324	Contemporary French Language and Culture	3
Culture Electives (choose three):		8-9
FRENCH 410	French Immersion: Advanced	
FRENCH 429	Royalty, Reason, and Revolution: The Golden Age of French Culture	
FRENCH 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries	
FRENCH 432	Seminar in French and Francophone Cultures:	
FRENCH 450	Institutions and Culture of Contemporary France	
FRENCH 451	Cinema of the French-Speaking World:	
FRENCH 428	Castles, Cathedrals, and Common People: The Foundations of French Culture	
<b>Total Credits</b>		<b>29-30</b>

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>German</b>		
Reading and Writing Development		
GERMAN 204	Fourth-Semester German	3
GERMAN 332	Presentation and Composition	3
Linguistics		
GERMAN 331	German Grammar in Practice	3
Linguistics Elective (choose one):		3
GERMAN 371	German Phonetics	
GERMAN 475	Seminar on the History and Structure of German	
Literature		

GERMAN 333	Texts and Contexts	3
Literature Elective (choose one):		3
GERMAN 478	Reading Older German Handwriting	
GERMAN 484	Seminar on Themes and Motifs in German Literature:	
Culture		
GERMAN 334	Introduction to German Studies	3
Culture Elective (choose one):		3
ARTHIST 366	German Painting, 1800-1933	
ARTHIST 465	Dada and Surrealist Art	
GEOG 330	Europe: East and West	
GERMAN 111	German Life and Civilization: Part I	
GERMAN 112	German Life and Civilization: Part II:	
GERMAN 145	Views of Germany:	
HIST 248	The First World War	
HIST 249	The Second World War in Europe	
HIST 363	Germany: Hitler and the Nazi Dictatorship	
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	
JEWISH 261	Representing the Holocaust in Words and Images	
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	
POL SCI 334	German Politics and the New Europe	
Linguistics, Literature, or Culture 300+ Electives (choose two):		6
ARTHIST 366	German Painting, 1800-1933	
ARTHIST 465	Dada and Surrealist Art	
GEOG 330	Europe: East and West	
GERMAN 371	German Phonetics	
GERMAN 475	Seminar on the History and Structure of German	
GERMAN 478	Reading Older German Handwriting	
GERMAN 484	Seminar on Themes and Motifs in German Literature:	
HIST 363	Germany: Hitler and the Nazi Dictatorship	
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	
POL SCI 334	German Politics and the New Europe	
<b>Total Credits</b>		<b>30</b>

Code	Title	Credits
<b>Italian</b>		
Reading and Writing Development		
ITALIAN 103	First-Semester Italian	4
ITALIAN 104	Second-Semester Italian	4
ITALIAN 203	Third-Semester Italian	3
ITALIAN 204	Fourth-Semester Italian	3

Linguistics, Reading, and Writing Development Elective (choose one):		3
ITALIAN 311	Advanced Conversation and Composition: Contemporary Italian Usage	
ITALIAN 312	Contemporary Italian Language and Culture	
Literature		
ITALIAN 457	Topics in Italian Literature and Culture in Translation:	3
Literature Elective (choose one):		3
ITALIAN 321	Introduction to Italian Literature	
ITALIAN 322	Introduction to Italian Literature and Film	
Culture		
ITALIAN 258	Contemporary Italian Society and Culture	3
Linguistics, Literature, or Culture Elective (choose one):		3
ITALIAN 145	Views of Italy: (Multicultural Italy Today or Italians and the Mafia)	
ITALIAN 242	Topics in Italian American Studies:	
ITALIAN 256	Introduction to Italian Food Studies: A Cultural History	
Linguistics, Literature, or Culture Elective (choose two):		6
ARTHIST 333	High Renaissance Art in Italy	
CLASSIC 202	Introduction to Roman Life and Literature	
CLASSIC 303	The Life and Literature of the Roman Empire	
CLASSIC 304	The Graeco-Roman World:	
Linguistics, Literature, or Culture 300+ Elective (choose one):		3
ARTHIST 333	High Renaissance Art in Italy	
CLASSIC 303	The Life and Literature of the Roman Empire	
CLASSIC 304	The Graeco-Roman World:	
ITALIAN 321	Introduction to Italian Literature	
ITALIAN 322	Introduction to Italian Literature and Film	
ITALIAN 333	Dante's Divine Comedy in Translation	
ITALIAN 342	Italian Immigration: A Sociocultural History	
ITALIAN 397	Study Abroad:	
or ITALIAN 497	Study Abroad:	
<b>Total Credits</b>		<b>38</b>

Code	Title	Credits
<b>Latin</b>		
Reading and Writing Development		
LATIN 103	First Semester Latin	4
LATIN 104	Second Semester Latin	4
LATIN 205	Third Semester Latin	4
Literature		
CLASSIC 202	Introduction to Roman Life and Literature	3
LATIN 306	Readings in Latin Literature:	3

LATIN 501	Readings in Latin Prose:	3
LATIN 502	Readings in Latin Poetry:	3
LATIN 699	Directed Reading	3
Literature and Culture Electives (choose two):		6
ANTHRO 305	The Celtic World	
ARTHIST 313	Greek Art and Archaeology	
ARTHIST 314	Art and Archaeology of the Ancient Near East	
ARTHIST 315	Art and Archaeology of Ancient Egypt	
ARTHIST 316	Roman Art and Archaeology	
ARTHIST 412	Cities and Sanctuaries of Ancient Greece	
ARTHIST 413	Greek Sculpture	
CLASSIC 201	Introduction to Greek Life and Literature	
CLASSIC 301	The Life and Literature of Classical Athens: Herodotus and Dramatists	
CLASSIC 303	The Life and Literature of the Roman Empire	
GREEK 306	Readings in Ancient Greek Literature:	
GREEK 501	Readings in Classical Greek Prose:	
GREEK 502	Readings in Ancient Greek Poetry:	
HIST 303	A History of Greek Civilization: The Greek City-State	
HIST 304	A History of Greek Civilization: The Age of Alexander the Great	
HIST 307	A History of Rome: The Republic	
HIST 308	A History of Rome: The Empire	
<b>Total Credits</b>		<b>33</b>

Code	Title	Credits
<b>Spanish</b>		
Reading and Writing Development		
SPANISH 308	Advanced Writing and Reading	3
Reading and Writing Development Elective (choose one):		3
SPANISH 318	Advanced Speaking and Listening	
SPANISH 319	Advanced Speaking and Listening for Heritage Speakers	
Linguistics Electives (choose two):		6
SPANISH 341	Introduction to Hispanic Linguistics (preferred course)	
SPANISH 443	Spanish Phonetics and Phonology	
SPANISH 444	Spanish Syntax and Morphology	
SPANISH 446	Hispanic Sociolinguistics	
SPANISH 545	Seminar in Hispanic Linguistics:	
Literature Elective (choose two):		6
SPANISH 350	Introduction to Literary Analysis (preferred)	
SPANISH 470	Survey of Hispanic Literature and Civilization	
SPANISH 472	Survey of Spanish-American Literature and Civilization	
SPANISH 474	Survey of Spanish Literature and Civilization	
SPANISH 506	Seminar in Spanish Literature:	

SPANISH 507	Seminar in Spanish-American Literature:	
SPANISH 508	Seminar in Hispanic Literature:	
SPANISH 570	Seminar in Spanish Golden Age Literature:	
SPANISH 572	Seminar on Cervantes:	
SPANISH 578	Seminar in Modern Spanish Literature and Civilization:	
Literature, Linguistics, or Culture Electives (choose two):		6
SPANISH 341	Introduction to Hispanic Linguistics	
SPANISH 350	Introduction to Literary Analysis	
SPANISH 371	Introduction to Latino Literature in English	
SPANISH 373	Topics in Latino Literature in English:	
SPANISH 443	Spanish Phonetics and Phonology	
SPANISH 444	Spanish Syntax and Morphology	
SPANISH 446	Hispanic Sociolinguistics	
SPANISH 470	Survey of Hispanic Literature and Civilization	
SPANISH 472	Survey of Spanish-American Literature and Civilization	
SPANISH 474	Survey of Spanish Literature and Civilization	
SPANISH 506	Seminar in Spanish Literature:	
SPANISH 507	Seminar in Spanish-American Literature:	
SPANISH 508	Seminar in Hispanic Literature:	
SPANISH 545	Seminar in Hispanic Linguistics:	
SPANISH 570	Seminar in Spanish Golden Age Literature:	
SPANISH 572	Seminar on Cervantes:	
SPANISH 578	Seminar in Modern Spanish Literature and Civilization:	
<b>Total Credits</b>		<b>24</b>

Code	Title	Credits
<b>Japanese</b>		
Linguistic, Reading, and Writing Development		
JAPAN 301	Fifth Semester Japanese	4
JAPAN 302	Sixth Semester Japanese	4
JAPAN 312	Japanese Conversation II	3
JAPAN 370	Fun Kanji	2
JAPAN 401	Seventh Semester Japanese	4
JAPAN 402	Eighth Semester Japanese	4
Literature Electives (choose two):		6
JAPAN 331	Reading Japanese Short Stories	
JAPAN 332	Extensive Reading in Japanese	
JAPAN 345	Japanese News Media	
JAPAN 352	Japanese Performance Traditions: Readings	
JAPAN 355	Seminar in Japanese Literature and Culture:	
JAPAN 361	Translating Japanese Media	
Culture Elective (choose one):		3



JAPAN 110	Japanese Popular Culture
JAPAN 221	Japanese Film: Themes and Methods
JAPAN 351	Japanese Performance Traditions
JAPAN 355	Seminar in Japanese Literature and Culture:
JAPAN 497	Study Abroad:

**Total Credits 30**

**Code Title Credits**  
**Arabic**

Linguistic, Reading, and Writing Development		
ARABIC 201	Third Semester Arabic	5
ARABIC 202	Fourth Semester Arabic	5
ARABIC 301	Fifth Semester Arabic	3
ARABIC 302	Sixth Semester Arabic	3
Linguistic, Literature, or Cultural Electives (choose two): 6		

ARABIC 111	Cultures and Civilizations of the Muslim Middle East
ARABIC 164	Arabs and Islam in America
ARABIC 390	Islam: Religion and Culture
ARABIC 497	Study Abroad:
ARABIC 699	Advanced Independent Study
HONORS 350	Honors Seminar in the Humanities: (Linguistic, Literature, or Cultural topic)
HONORS 351	University Honors Seminar in the Social Sciences: (Linguistic, Literature, or Cultural topic)

Linguistic, Literature, or Cultural Elective (choose one): 3

HIST 280	Islamic Civilization: The Formative Period, ca. 500-1258
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries
HIST 401	Topics in Middle Eastern History: (Linguistic, Literature, or Cultural topic)
HONORS 350	Honors Seminar in the Humanities: (Linguistic, Literature, or Cultural topic)
HONORS 351	University Honors Seminar in the Social Sciences: (Linguistic, Literature, or Cultural topic)

**Total Credits 25**

**The following World Language Education programs are being inactivated:**

- Hebrew
- Polish
- Russian

**Professional Education Requirements <sup>1</sup>**

Code	Title	Credits
Select one of the following: 3		
ED PSY 330	Introduction to Learning and Development (preferred)	
ED PSY 631	Cognition: Learning, Problem Solving and Thinking	

ED PSY 640	Human Development: Theory and Research
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Select one of the following: 3

EXCEDUC 300	The Exceptional Individual	
EXCEDUC 531	Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language (preferred)	
EXCEDUC 600	Survey of Exceptional Education	
ED POL 375	Cultural Foundations of Education	3
CURRINS 350	Field Seminar in Language Education	1
CURRINS 437	Pre-Student Teaching in World Language Education	2
CURRINS 542	History and Politics of Second Language Education	3
CURRINS 543	Developing Biliteracy	3
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
CURRINS 546	Language, Content, and Comprehensible Input	3
CURRINS 637	World Language Methods and Materials	3
CURRINS 655	Applied Educational Linguistics	3
CURRINS 438	Student Teaching in World Language Education <sup>2</sup>	6
CURRINS 445	Seminar in Language Education	3

**Total Credits 39**

<sup>1</sup> A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.

<sup>2</sup> Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 426) for details.

**Additional Requirements for Graduation**

- Program Portfolio - based on the 10 Wisconsin Teacher Standards.
- Minimum cumulative grade point average of 2.75 including any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
- Satisfactory completion of a minimum 120 credits.
- Completion of the last year of coursework (30 credits) in residence at UW-Milwaukee.
- Successful completion of a pedagogical knowledge assessment (PKA) is required for certification.

**English as a Second Language Minor - *option***

World Language majors wishing to complete an English as a Second Language minor would also need these additional requirements:

Code	Title	Credits
CURRINS 350	Field Seminar in Language Education	1
CURRINS 443	Pre-Student Teaching in English as a Second Language Education	2
CURRINS 444	Student Teaching in English as a Second Language Education	3

CURRINS 541	Principles and Methods of Teaching ESL	3
<b>Total Credits</b>		<b>9</b>

## Advance to Major Program Admission Requirements

Application to the World Languages program requires satisfactory completion of the requirements listed below. For more information about the application process, visit our website (<https://uwm.edu/education/academics/second-language/>).

- **GER: OWC-A** Completion of Oral-Written Communication part A competency.
- **GER: QL-A:** Completion of Quantitative Literacy part A competency.
- **Completion of CURRINS 300** with a grade of C or better.
- **Completion of COMMUN 103** with a grade of C or better.
- **A 2.75 minimum GPA** in all World Language content courses completed prior to program admission.
- **A 2.5 minimum GPA** in all UWM and transfer courses at time of admission application.
- **A minimum of 48 credits** (UWM and transfer credits) at the time of admission application. It is not required to have all content area courses completed at the time of application.
- The Wisconsin Department of Public Instruction requires that all applicants to a professional education preparation program pass a **Criminal Background Check (CBC)** prior to admission.

## Benchmarks Student Teaching

Prior to requesting/being assigned a student teaching placement, students must:

- Take the Department of Public Instruction Mandated Content Exam (language proficiency) - ASL students require SLPI Intermediate Plus. Other languages require a minimum score of Intermediate-High on both the ACTFL OPI and the WPT.
- Complete an Immersion Experience - Required for all prospective language teachers, this requirement must be met by spending a significant amount of time in a community/country where the chosen major language is spoken. Submit documentation of experience to your academic advisor prior to student teaching placement.
- Complete and submit an application. Deadlines for submission are posted by the Office of Clinical Experiences. (<http://uwm.edu/education/academics/clinical-experiences/>)

To be approved, students must **ALSO** meet the following criteria:

- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student's faculty advisor.
- Have a minimum cumulative GPA of 2.75 on all undergraduate coursework, including transfer courses.
- Content Knowledge: Minimum score of Intermediate-High on the ACTFL OPI and WPT tests or a minimum score of SLPI Intermediate Plus for ASL students; or a minimum GPA of 3.0 in languages content courses.

- Removal of all F and/or I (incomplete) grades in courses that count toward graduation or certification.
- TB test *results* submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experience.

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### Scheduling an Appointment

Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
[soeinfo@uwm.edu](mailto:soeinfo@uwm.edu)

### Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## English as a Second Language Education, Minor

A teaching certification in English as a Second Language (ESL) is for those who wish to teach English to non-native speakers. Students wishing to pursue a minor in ESL must be in the process of obtaining, or already have, a certification to teach at the Early Childhood, Early Childhood Through Adolescence, Middle Childhood Through Early Adolescence, or Early Adolescence Through Adolescence level.

## Requirements

Code	Title	Credits
<b>Content Area</b>		
CURRINS 541	Principles and Methods of Teaching ESL	3
CURRINS 542	History and Politics of Second Language Education	3
CURRINS 543	Developing Biliteracy	3
CURRINS 546	Language, Content, and Comprehensible Input	3
CURRINS 655	Applied Educational Linguistics	3
<b>Pre-Student Teaching and Student Teaching</b>		
CURRINS 350	Field Seminar in Language Education	1
CURRINS 443	Pre-Student Teaching in English as a Second Language Education	2
CURRINS 444	Student Teaching in English as a Second Language Education	3
CURRINS 445	Seminar in Language Education	3
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 427) for details.

## Additional Requirements for Certification

- Minimum cumulative grade point average of 2.75 in all professional education coursework. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences;
- Undergraduate students must meet the graduation requirements for their primary certification;
- Program Portfolio completion - based on the 10 WI Teacher Standards; and
- Completion of the Pedagogical Knowledge Assessment (PKA) (required for certification).

## Benchmarks

### Student Teaching

Students must complete an application to request/be assigned a student teaching placement. Deadlines for submission are posted by the Office of Clinical Experiences. (<http://uwm.edu/education/academics/clinical-experiences/>)

To be approved, students must **ALSO** meet the following criteria:

- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student's faculty advisor.
- Have a minimum cumulative GPA of 2.5 on all undergraduate coursework, including transfer courses.
- Have a minimum 2.75 GPA in all content area and professional education courses.
- Content Knowledge; Passing scores reflected on your transcript for the Praxis II exam: English to Speakers of Other Languages: Content Knowledge #5361; or minimum 3.0 GPA on content area courses.
- Removal of all F and/or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experiences.

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- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.

- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

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 soeinfo@uwm.edu

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## Exceptional Education, BS: Early Adolescence - Adolescence

The Early Adolescence-Adolescence (EAA) Special Education program leads to a Bachelor of Science in Exceptional Education. Upon completion of the program and other license requirements, students will be eligible to apply for a Cross-Categorical Special Education Teaching License from the Wisconsin Department of Public Instruction for ages 10-21 (grades 6 through 12). If you already hold a Bachelor’s Degree, you can earn EAA Special Education Teacher Certification as a Post-Baccalaureate student.

Our faculty are recognized leaders in the field of Special Education with expertise in urban teaching, inclusive education, language and literacy and transition. Our program will prepare you to become a powerful, effective educator in a high-demand area.

### Requirements

#### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor’s degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

#### Admission to Program (p. 430)

#### Program Core

Code	Title	Credits
Highly recommended-choose one: 3		
ENGLISH 201	Strategies for Academic Writing (GER-OWCB)	
ENGLISH 206	Technical Writing (GER-OWCB)	
ENGLISH 215	Introduction to English Studies (GER-OWCB)	
ENGLISH 240	Rhetoric, Writing, and Culture: (GER-OWCB)	
EXCEDUC 560	Foundations of Autism Spectrum Disorders (GER-OWCB)	
Highly recommended-choose one: 3		
MATH 102	Mathematical Literacy for College Students II (GER-QLA)	

MATH 103	Contemporary Applications of Mathematics (GER-QLA)	
MATH 105	Introduction to College Algebra (GER-QLA)	
MATH 108	Algebraic Literacy II (GER-QLA)	
MATH 175	Mathematical Explorations for Elementary Teachers I (GER-QLA)	
Highly recommended:		
MATH 176	Mathematical Explorations for Elementary Teachers II (OWC-QLB)	3
COMSDIS 210	Survey of Communication Disorders (GER-SS)	3
Literature elective (GER-HU)		3
Biological Sciences elective (GER-NS or NS+)		3-4
Choose one: <sup>1</sup>		3
ANTHRO 213	American Indian Peoples of Wisconsin (GER-CD, SS)	
ENGLISH 276	Introduction to American Indian Literature: (GER-CD, HU)	
AIS 203	Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)	
HIST 263	North American Indian History Since 1887 (GER-CD, SS)	
Choose one:		
HIST 151	American History: 1607 to 1877 (GER-SS)	
HIST 152	American History: 1877 to the Present (GER-SS)	
POL SCI 104	Introduction to American Government and Politics (GER-SS)	
POL SCI 105	State Politics (GER-SS)	
CURRINS 300	Introduction to Teaching: Colloquium and Fieldwork	3
EXCEDUC 300	The Exceptional Individual	3
or EXCEDUC 600	Survey of Exceptional Education	
or EXCEDUC 605	Child, Learner, Disabilities	
ED POL 375	Cultural Foundations of Education	3
or ED POL 530	Urban Education: Foundations	

**Total Credits 30-31**

<sup>1</sup> Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

### Professional Requirements

Students may enter the professional courses only after formal admission to the School of Education. The professional program consists of four semesters, including fieldwork/student teaching. Students must have a minimum grade of C or better in all professional coursework.

Code	Title	Credits
<i>Year 1 - Fall</i>		
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3

ED PSY 330	Introduction to Learning and Development	3
EXCEDUC 595	Technology Applications for Diverse Learners	3
EXCEDUC 635	Individualized Planning & Instructional Methods	3
CURRINS 643	Balanced Literacy Instruction in the Elementary School	3
Field Requirement	1.5 days per week or 135 hours	
<i>Year 1 - Spring</i>		
CURRINS 332	Teaching of Mathematics 3	3
EXCEDUC 636	Curriculum Accommodations	3
EXCEDUC 662	Collaborative Strategies	3
EXCEDUC 680	Literacy I	3
EXCEDUC 586	Teaching Experience I	1
EXCEDUC 486	Linking Seminar: Developing Reflective Practice	2
Field Requirement	2 days per week or 190 hours	
Reading Test <sup>2</sup>		
<i>Year 2 - Fall</i>		
EXCEDUC 532	Assessment and Monitoring	3
EXCEDUC 671	Behavior Support & Intervention for Mid/High Students with Disabilities	3
EXCEDUC 679	Critical Issues in Transition Planning for Students with Disabilities	3
EXCEDUC 587	Teaching Experience II	3
Field Requirement	Half-days (M-F)	
<i>Year 2 - Spring</i>		
EXCEDUC 488	Linking Seminar: Professional Development	1
CURRINS 543	Developing Biliteracy	3
EXCEDUC 588	Teaching Experience III	9
Field Requirement	Twenty weeks full-time (M-F)	
<b>Total Credits</b>		<b>55</b>

<sup>2</sup> It is strongly recommended that students take the reading test required for initial certification at the end of the first year of the professional sequence.

### Exceptional Education Degree, EAA Submajor Completion Requirements

- Completion of all admission requirements, granted admission to the EAA program, and completion of EAA professional course sequence;
- Completion of EAA program requirements that also fulfill university GER requirements, including coursework to meet the Act 31 requirement;
- Completion of a minimum of 18 credits of approved content coursework;
- Completion of university GER requirements;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program;
- Completion of a minimum of 120 degree credits; and
- Maintain a cumulative GPA of 2.75.

### Department of Public Instruction (DPI) Licensure Requirements

- Minimum cumulative GPA of 2.75;
- Minimum cumulative GPA of 2.75 in professional coursework;
- Completion of DPI Content Knowledge Requirement by earning a 3.0 cumulative GPA in required content coursework, by demonstrating proficiency in a content portfolio, or by passing the PRAXIS II (Middle School: Content Knowledge Test–0146/5146); and
- Passing scores on state-mandated tests (Wisconsin Foundations of Reading Test, edTPA).

### Post-Baccalaureate Program

(Under revision; please see an advisor for information.)

Code	Title	Credits
<i>Year 1 - Summer (9 certification credits)</i>		
EXCEDUC 586	Teaching Experience I	3
EXCEDUC 680	Literacy I	3
EXCEDUC 605	Child, Learner, Disabilities	3
<i>Year 1 - Fall (9 certification credits)</i>		
EXCEDUC 587	Teaching Experience II	3
EXCEDUC 635	Individualized Planning & Instructional Methods	3
EXCEDUC 671	Behavior Support & Intervention for Mid/High Students with Disabilities	3
<i>Year 1 - Spring (10 certification credits)</i>		
Portfolio/Performance Review		
EXCEDUC 587	Teaching Experience II	3
EXCEDUC 636	Curriculum Accommodations	3
CURRINS 332	Teaching of Mathematics 3	3
EXCEDUC 486	Linking Seminar: Developing Reflective Practice	1
<i>Year 2 - Summer (6 certification credits/6 graduate credits)</i>		
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
ED POL 530	Urban Education: Foundations	3
<i>Year 2 - Fall (6 certification credits/9 graduate credits)</i>		
EXCEDUC 771	Field Work with Students Having Exceptional Education Needs (graduate students)	3
or EXCEDUC 588	Teaching Experience III	
EXCEDUC 532	Assessment and Monitoring	3
EXCEDUC 679	Critical Issues in Transition Planning for Students with Disabilities	3
<i>Year 2 - Spring (8 certification credits/6 graduate credits)</i>		
Portfolio/Performance Review		
Select one of the following options with Advisor Approval: 3		
Option 1:		
EXCEDUC 588	Teaching Experience III	
Option 2:		
EXCEDUC 771	Field Work with Students Having Exceptional Education Needs	
Select one of the following for ESL Focus:		
CURRINS 541	Principles and Methods of Teaching ESL	

CURRINS 543	Developing Biliteracy	
CURRINS 546	Language, Content, and Comprehensible Input	
Option 3:		
Focus area (e.g., Advanced Methods in Learning Disabilities, Assistive Tech)		
EXCEDUC 496	Linking Seminar III: Middle/High - Professional Development	1
EXCEDUC 662	Collaborative Strategies	3
<b>Total Credits</b>		<b>50</b>

## Advance to Major

### Program Admission Requirements

- Achieve a placement level 4 or higher on the English placement test, or complete ENGLISH 102 or an equivalent with a C or better (OWC-A);
- Score of 30 or higher on the Math placement test or MATH 102, MATH 103, MATH 105, MATH 108, MATH 175, or equivalent with a C or better (QL-A);
- Completion of CURRINS 300 (or equivalent), with a C or better;
- Completion of EXCEDUC 300, EXCEDUC 600, or EXCEDUC 605 (or equivalent), with a C or better;
- Completion of ED POL 375 or ED POL 530 (or equivalent), with a C or better;
- Completion of an approved advanced course (at least three credits) with significant written or oral communication component (OWC-B), with a C or better (recommendations: EXCEDUC 560, ENGLISH 215, ENGLISH 240, ENGLISH 245 or equivalent);
- Completion of an approved advanced course (at least three credits) making use of quantitative tools (QL-B), with a C or better (recommendations: MATH 176 or equivalent);
- Completion of a minimum of 45 credits at the time of application;
- Maintain a cumulative GPA of 2.5;
- Completion of a program application; and
- Interview.

## Benchmarks

### Content Knowledge Coursework

A 3.0 cumulative GPA in 6 of the content-focused courses below meets the DPI content knowledge proficiency requirement.

Code	Title	Credits
<b>English - choose two of the following:</b>		
ENGLISH 102	College Writing and Research	3
ENGLISH 201	Strategies for Academic Writing	3
ENGLISH 205	Business Writing	3
ENGLISH 215	Introduction to English Studies	3
EXCEDUC 680	Literacy I	3
<b>Math - choose two of the following:</b>		
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 108	Algebraic Literacy II	3

MATH 175	Mathematical Explorations for Elementary Teachers I	3
MATH 176	Mathematical Explorations for Elementary Teachers II	3
MTHSTAT 215	Elementary Statistical Analysis	3
CURRINS 332	Teaching of Mathematics 3	2-3

### Social Studies - choose one of the following:

ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
GEOG 110	The World: Peoples and Regions	3
HIST 151	American History: 1607 to 1877	3
HIST 152	American History: 1877 to the Present	3
POL SCI 104	Introduction to American Government and Politics	3
POL SCI 105	State Politics	3
SOCIOL 101	Introduction to Sociology	3
PSYCH 101	Introduction to Psychology	3

### Science - choose one of the following:

ATM SCI 100	Survey of Meteorology	3
ATM SCI 109	Thunderstorms, Tornadoes and Hurricanes	3
BIO SCI 100	Survey of Zoology	3
BIO SCI 102	Elements of Biology	3
BIO SCI 103	Topics in Modern Biology:	3
BIO SCI 104	Plants in Today's World	3
BIO SCI 206	Biology of Women	3
CES 210	Introduction to Conservation and Environmental Science	3
CHEM 106	Chemistry in the World Around Us-- Chemistry for the Non-Science Major	3
CHEM 185	Basic Chemistry for Teachers	3
GEO SCI 100	Introduction to the Earth	3
GEO SCI 102	Principles of Historical Geology	3
GEO SCI 105	Earth, Air, Fire and Water	3
GEO SCI 106	The Earth Environment	3
GEO SCI 185		3
PHYSICS 107	Physics in Everyday Life	3
PHYSICS 185	Basic Physics for Teachers	3

## Student Teaching

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website (<https://uwm.edu/education/academics/clinical-experiences/>).

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

## How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

## Scheduling an Appointment

Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
[soeinfo@uwm.edu](mailto:soeinfo@uwm.edu)

## Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Exceptional Education, BS: Early Childhood

The Early Childhood Special Education major leads to a Bachelor of Science in Exceptional Education. Upon completion, students will be eligible to apply for a Cross-Categorical Special Education Teaching License from the Wisconsin Department of Public Instruction for ages birth to eight, grades birth-3rd. Special Education teachers who specialize in early childhood are currently in high demand, according to the U.S. Bureau of Labor Statistics.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Program Core

Code	Title	Credits
Choose one:		3
ENGLISH 201	Strategies for Academic Writing (GER-OWCB)	
ENGLISH 205	Business Writing (GER-OWCB)	
MATH 175	Mathematical Explorations for Elementary Teachers I (GER-QLA)	3
MATH 176	Mathematical Explorations for Elementary Teachers II (GER-QLB)	3
Choose one: <sup>1</sup>		3
ANTHRO 213	American Indian Peoples of Wisconsin (GER-CD, SS)	
ENGLISH 276	Introduction to American Indian Literature: (GER-CD, HU)	
AIS 203	Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)	
HIST 263	North American Indian History Since 1887 (GER-CD, SS)	
ART ED 130	Multicultural Art and Visual Learning in Elementary Education (GER-A, CD)	3
COMMUN 103	Public Speaking (GER-HU)	3
GER Literature elective (Fulfills GER-HU)		3
CES 210	Introduction to Conservation and Environmental Science (GER-NS)	3
Earth Science elective (GER-NS or GER-NS+: Aston, Atm Sci, Geog, or Geo Sci)		3-4
Physical Science elective (GER-NS or GER-NS+: Chem or Physics)		3-4
<b>Total Credits</b>		<b>30-32</b>

<sup>1</sup> Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

**Professional Requirements**

Code	Title	Credits
<i>During Year 1</i>		
CURRINS 140	Field Experience with Families & Communities	1
CURRINS 312	Models and Issues for Early Childhood Education	3
<i>Semester 3</i>		
CURRINS 240	Field Experience with Dual Language Learners	2
CURRINS 501	Language Acquisition for Children of Diverse Backgrounds	3
<i>Semester 4</i>		
CURRINS 302	Curriculum Design in Early Childhood	3
CURRINS 340	Field Experience in Preschool and Kindergarten Classrooms	2
or CURRINS 440	Field Experience in the Primary Grades	
CURRINS 502	Emergent Literacy and Biliteracy in the Early Childhood Classroom	3
<i>Semester 5</i>		
EXCEDUC 569	Curriculum and Methods for Special Education: Preschool	3
EXCEDUC 648	Early Childhood Special Education Field Experience: Preschool	3
CURRINS 330	Teaching of Mathematics 1	3
<i>Semester 6</i>		
EXCEDUC 570	Curriculum and Methods for Special Education: Primary	3
EXCEDUC 649	Early Childhood Special Education Field Experience: Primary	3
ED PSY/EXCEDUC 613	Infant and Early Childhood Assessment	3
CURRINS 504	Methods for Biliteracy and Language Arts in Primary Grades	3
<i>Semester 7</i>		
EXCEDUC 568	Curriculum and Methods for Special Education: Birth to Three	3
EXCEDUC 647	Early Childhood Special Education Field Experience: 0 to 3 Yrs	3
EXCEDUC 682	Language and Literacy in Early Childhood Special Education	3
<i>Semester 8</i>		
EXCEDUC 481	Student Teaching with Students Having Early Childhood Exceptional Ed Needs	12
Highly recommended:		
CURRINS/EXCEDUC 376	Understanding and Developing the edTPA	
<i>Other Required Professional Courses</i>		
MUS ED 260	Making Music Connections with Children	3
ED PSY 330	Introduction to Learning and Development	3
EXCEDUC 630	Survey of EC Intervention: Young Children with Special Needs, Families	3
CURRINS/EXCEDUC 612	Collaborations for Teachers with Families, Schools, and Communities	3

**Electives**

Select electives to ensure the minimum 120 credits required for graduation

**Total Credits** **71**

**Exceptional Education, Early Childhood Submajor Completion Requirements**

- Completion of program requirements;
- Completion of university GER;
- Completion of a minimum of 120 credits;
- Completion of the last year of coursework (30 credits) in residence at UWM;
- Minimum cumulative GPA of 2.75 in UWM and transfer credits; and
- Minimum cumulative GPA of 2.75 in professional coursework

See your advisor for additional requirements for certification.

**Post-baccalaureate Program**

(Under revision; please see an advisor for information.)

Code	Title	Credits
<b>Year 1 - Summer</b>		
CURRINS 302	Curriculum Design in Early Childhood	3
EXCEDUC 630	Survey of EC Intervention: Young Children with Special Needs, Families	3
<b>Year 1 - Fall</b>		
EXCEDUC 569	Curriculum and Methods for Special Education: Preschool	3
EXCEDUC 648	Early Childhood Special Education Field Experience: Preschool	3
CURRINS 502	Emergent Literacy and Biliteracy in the Early Childhood Classroom	3
<b>Year 1 - Spring</b>		
CURRINS 504	Methods for Biliteracy and Language Arts in Primary Grades	3
EXCEDUC 570	Curriculum and Methods for Special Education: Primary	3
EXCEDUC 649	Early Childhood Special Education Field Experience: Primary	3
<b>Year 2 - Summer</b>		
EXCEDUC 568	Curriculum and Methods for Special Education: Birth to Three	3
EXCEDUC 647	Early Childhood Special Education Field Experience: 0 to 3 Yrs	3
<b>Year 2 - Fall</b>		
EXCEDUC 682	Language and Literacy in Early Childhood Special Education	3
CURRINS 330	Teaching of Mathematics 1	3
ED PSY 330	Introduction to Learning and Development	3
or ED PSY 640	Human Development: Theory and Research	
<b>Year 2 - Spring</b>		
EXCEDUC 652	Developmental Evaluation of Young Children with Disabilities	3
EXCEDUC 651	Working With Families in Urban Communities	3
<b>Other Teaching Experience Requirements</b>		



EXCEDUC 481	Student Teaching with Students Having Early Childhood Exceptional Ed Needs	3
or EXCEDUC 776	Fieldwork with Students Having Early Childhood-Exceptional Education Needs	
CURRINS 400	Field Work in Curriculum and Instruction:	1-6
<b>Total Credits</b>		<b>49-54</b>

## Advance to Major

### Admission to Program

See academic advisor.

## Benchmarks

### Student Teaching

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website at [uwm.edu/education/academics/clinical-experiences/](http://uwm.edu/education/academics/clinical-experiences/) (<http://uwm.edu/education/academics/clinical-experiences/>).

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Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Exceptional Education, BS: K4-12 Special Education

Special education certification in the state of Wisconsin has undergone changes in the grade levels associated with specific licenses. The UWM Special Education program is adapting curriculum to prepare students to teach in K4-12 settings, including extensive fieldwork. This program prepares students to work in urban settings and takes place in close partnership with local school districts.

The UWM School of Education's urban mission is upheld in the special education program's commitment to preparing pre-service teachers to meet the needs of diverse populations. Students are admitted into the program upon admission to the University and completion of pre-professional coursework. It is possible to complete the program in four years. This is a field-based program involving gradual and extensive work in urban schools. Upon successful completion of all student teaching requirements, including state required assessments, students will be licensed to teach in special education.

## Requirements

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of your program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Admission to Program (p. 435)

#### Program Core

Code	Title	Credits
MATH 175	Mathematical Explorations for Elementary Teachers I (OWC-QLA)	3
MATH 176	Mathematical Explorations for Elementary Teachers II (OWC-QLB)	3
COMMUN 103	Public Speaking (GER-HU)	3
ED POL 375	Cultural Foundations of Education	3
SOCIOL 224	Race and Ethnicity in the United States (GER-SS, CD)	3
CURRINS 300	Introduction to Teaching: Colloquium and Fieldwork	3
ED PSY 330	Introduction to Learning and Development	3
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
Choose one:		3
EXCEDUC 300	The Exceptional Individual	
EXCEDUC 600	Survey of Exceptional Education	
EXCEDUC 605	Child, Learner, Disabilities	
<i>Highly recommended (fulfills GER)</i>		
CURRINS 233	Introduction to Children's and Young Adult Literature	
CURRINS 234	Teachers as Writers (Preferred course; GER-UWCB, HU)	
ART ED 130	Multicultural Art and Visual Learning in Elementary Education (Preferred course; GER-A, CD)	
COMSDIS 210	Survey of Communication Disorders (Preferred course; GER-SS)	
Choose one: <sup>1</sup>		
ANTHRO 213	American Indian Peoples of Wisconsin (GER-CD, SS)	
AIS 203	Western Great Lakes American Indian Community Life of the Past (GER-CD, SS)	
ENGLISH 276	Introduction to American Indian Literature: (GER-CD, HU)	
HIST 263	North American Indian History Since 1887 (GER-CD, HU)	
<b>Total Credits</b>		<b>27</b>

<sup>1</sup> Non-Western History or Contemporary Culture and Minority Group Relations (Act 31) statutory requirements can both be met by taking one class.

#### Professional Requirements

Code	Title	Credits
<i>Year 1 - Fall</i>		
CURRINS 306	Initial Clinical Experience in Elementary and Middle Education	1
CURRINS 536	Literacy 1: Assessing and Teaching Early Literacy	3

CURRINS 561	Mathematics Learners in Special Education I	3
EXCEDUC 586	Teaching Experience I	1
EXCEDUC 595	Technology Applications for Diverse Learners	3
EXCEDUC 635	Individualized Planning & Instructional Methods	3
<i>Year 1 - Spring</i>		
CURRINS 562	Mathematics Learners in Special Education II	3
EXCEDUC 486	Linking Seminar: Developing Reflective Practice	1
EXCEDUC 586	Teaching Experience I	1
EXCEDUC 636	Curriculum Accommodations	3
EXCEDUC 681	Literacy II	3
EXCEDUC 662	Collaborative Strategies	3
<i>Year 2 - Fall</i>		
CURRINS 541	Principles and Methods of Teaching ESL	3
EXCEDUC 532	Assessment and Monitoring	3
EXCEDUC 587	Teaching Experience II	3
EXCEDUC 601	Behavioral Supports	3
EXCEDUC 679	Critical Issues in Transition Planning for Students with Disabilities	3
<i>Year 2 - Spring</i>		
EXCEDUC 488	Linking Seminar: Professional Development	1
EXCEDUC 588	Teaching Experience III	9
EXCEDUC 574	Curriculum Accommodations II: Primary/Middle	3
<b>Total Credits</b>		<b>56</b>

### Exceptional Education Degree, K4-12 Special Education Submajor Completion Requirements

- Completion of University GER;
- At least 30 program credits must be earned in residence at the University of Wisconsin-Milwaukee, following admission to the program; and
- Completion of a minimum 120 degree credits.

### Second Degree, One Year Pathway

For individuals with a bachelor's degree and previous education certification.

#### Professional Requirements

Code	Title	Credits
<i>Summer 1</i>		
EXCEDUC 662	Collaborative Strategies	3
EXCEDUC 680	Literacy I	3
<i>Fall 1</i>		
EXCEDUC 587	Teaching Experience II	3
EXCEDUC 635	Individualized Planning & Instructional Methods	3
EXCEDUC 601	Behavioral Supports	3

CURRINS 561	Mathematics Learners in Special Education I	3
<i>Spring 1</i>		
EXCEDUC 588	Teaching Experience III <sup>2</sup>	3
EXCEDUC 636	Curriculum Accommodations	3
or EXCEDUC 574	Curriculum Accommodations II: Primary/Middle	
EXCEDUC 681	Literacy II	3
<i>Summer 2</i>		
EXCEDUC 679	Critical Issues in Transition Planning for Students with Disabilities	3
Choose one:		3
ED POL 530	Urban Education: Foundations	
ED POL 534	Students Placed At Risk: Deconstructing Risk, Defining Promise	
ED POL 535	Educating Students Placed At Risk: Pedagogies of Engagement	
<b>Total Credits</b>		<b>33</b>

<sup>2</sup> An additional 1-3 credits of EXCEDUC 588 may be required in the following fall semester for students who do not demonstrate consistent levels of performance in their field placement.

## Second Degree, Two Year Pathway

For individuals with a bachelor's degree and no previous education certification.

### Professional Requirements

Code	Title	Credits
<i>Summer 1</i>		
EXCEDUC 605	Child, Learner, Disabilities	3
or EXCEDUC 600	Survey of Exceptional Education	
EXCEDUC 662	Collaborative Strategies	3
EXCEDUC 680	Literacy I	3
<i>Fall 1</i>		
EXCEDUC 586	Teaching Experience I	1
EXCEDUC 601	Behavioral Supports	3
EXCEDUC 635	Individualized Planning & Instructional Methods	3
<i>Spring 1</i>		
EXCEDUC 587	Teaching Experience II	3
EXCEDUC 636	Curriculum Accommodations	3
or EXCEDUC 574	Curriculum Accommodations II: Primary/Middle	
EXCEDUC 681	Literacy II	3
EXCEDUC 486	Linking Seminar: Developing Reflective Practice	1
<i>Summer 2</i>		
EXCEDUC 679	Critical Issues in Transition Planning for Students with Disabilities	3
Choose one:		3
ED POL 530	Urban Education: Foundations	
ED POL 534	Students Placed At Risk: Deconstructing Risk, Defining Promise	

ED POL 535	Educating Students Placed At Risk: Pedagogies of Engagement	
<i>Fall 2</i>		
EXCEDUC 588	Teaching Experience III	3
EXCEDUC 532	Assessment and Monitoring	3
CURRINS 561	Mathematics Learners in Special Education I	3
<i>Spring 2</i>		
EXCEDUC 488	Linking Seminar: Professional Development	1
EXCEDUC 574	Curriculum Accommodations II: Primary/Middle	3
or EXCEDUC 636	Curriculum Accommodations	
CURRINS 562	Mathematics Learners in Special Education II	3
<b>Total Credits</b>		<b>48</b>

### Certification Requirements

- Demonstration of content knowledge proficiency through one of the following:
  - Achieve a cumulative grade point average of 3.0 or higher in prescribed content knowledge coursework (p. 435);
  - A passing score on the PRAXIS Subject Assessment #5146; or
  - A Content Knowledge Portfolio.
- Evidence of pedagogical knowledge proficiency;
- Evidence of pedagogy and pedagogical content knowledge related to teaching reading;
- Completion of ACT 31 requirement;
- Minimum cumulative GPA of 2.75 in all UWM and transfer courses; and
- Minimum cumulative GPA of 2.75 and a C or better in all professional courses.

## Advance to Major

### Program Admission Requirements

- At least 45 credits completed;
- Minimum cumulative grade point average of 2.5;
- Grade of C or better in CURRINS 300 and a positive field evaluation or equivalent;
- Grade of C or better in MATH 175 and ENGLISH 102 (or placement of 4 or higher on English placement test);
- Approved CBC;
- Successful application and interview; and
- For Second Degree candidates, bachelor's degree.

## Benchmarks

### Student Teaching

Students must complete paperwork in order to be assigned a student teaching placement. To determine your deadline (February or April), visit the Office of Clinical Experiences website (<https://uwm.edu/education/academics/clinical-experiences/>).

### Content Knowledge Coursework

A 3.0 cumulative GPA in 6 of the content-focused courses below meets the DPI content knowledge proficiency requirement.

Code	Title	Credits
<b>English - choose two of the following:</b>		<b>6</b>
ENGLISH 102	College Writing and Research	
CURRINS 234	Teachers as Writers	
EXCEDUC 681	Literacy II	
Or course with equivalent content		
<b>Math - choose two of the following:</b>		<b>6</b>
MATH 175	Mathematical Explorations for Elementary Teachers I	
MATH 176	Mathematical Explorations for Elementary Teachers II	
CURRINS 561	Mathematics Learners in Special Education I	
CURRINS 562	Mathematics Learners in Special Education II	
Or course with equivalent content		
<b>Social Studies - choose one of the following:</b>		<b>3</b>
SOCIOL 224	Race and Ethnicity in the United States	
GER-SS		
Or course with equivalent content		
<b>Science - choose one of the following:</b>		<b>3</b>
CES 210	Introduction to Conservation and Environmental Science	
GER-NS or NS+		
Or course with equivalent content		

## Portfolio/Performance Reviews

Conducted at the end of each semester and formal portfolio review at the end of Year 1. A favorable performance review is required to continue in the certification program.

## Evidence of pedagogy and pedagogical content knowledge related to teaching reading

- Depending on pathway: CURRINS 536 and EXCEDUC 681 or EXCEDUC 680 and EXCEDUC 681 with a grade of B- or better;
- Feedback and coaching from an expert of reading instruction;
- Portfolio of evidence demonstrating competence in phonemic awareness, phonics, vocabulary, reading, comprehension, and fluency.

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.

- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

## Scheduling an Appointment

Office of Student Services  
Enderis Hall, Room 209  
(414) 229-4721  
[soeinfo@uwm.edu](mailto:soeinfo@uwm.edu)

## Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Department of Teaching and Learning

Departmental Honors are granted to students who have achieved a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

# Exceptional Education, MS

The Department of Teaching and Learning offers two options for a program of study at the master's level: a general option or a certification option. Students choosing the General Option enroll in 12 credits of core requirements and 18 credits that reflect a focus area of study. Students following the Certification Option enroll in 12 credits of core requirements and apply 18 credits of their certification credits, taken at the graduate level, to the degree. This program is created in consultation with a faculty advisor. Students choosing the Certification Option must be accepted into one of the Department of Teaching and Learning's Post-Baccalaureate Teacher Certification Programs as well as the Graduate Program. Certification programs include:

- Early Childhood Education (0-8 yrs)
- Primary/Middle and Middle/Secondary Education (grades K-9 or 6-12 in the areas of learning disabilities, cognitive disabilities, and emotional disturbance)

Up to 15 credits of coursework in the certification program may be applied to the Master's degree in addition to 15 credits of core requirements.

Under the auspices of the PhD program in Urban Education, the Department offers doctoral level training with a designated specialization in Exceptional Education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

- Personal interview to determine an applicant's basis for seeking admission, potential for completion of the program, and relevant background and experience in exceptional education.
- Completion of the reason statement on the application.

## Credits and Courses

The minimum degree requirement is 30 graduate credits, of which 18 credits must be in Exceptional Education. The remaining credits may be taken either in or outside of the School of Education. Courses in either the Certification Option or General Option are determined in consultation with an advisor from suggested course options identified by the Department.

Code	Title	Credits
<b>Program Core Requirements</b>		
EXCEDUC 715	Issues and Trends in Exceptional Education	3
EXCEDUC 770	Seminar: Research on Individuals With Special Needs	3
	Advanced Issues or Methods in Urban Special Education (determined in collaboration with a faculty advisor).	3

EXCEDUC 890	Master's Research Project	3
<b>Total Credits</b>		<b>12</b>

### Certification Option (Up to 15 credits)

A student pursuing the Certification Option must be admitted to the Department of Teaching and Learning's Post-Baccalaureate Teacher Certification Program (consult the catalog program page for more information on admission dates and requirements). In consultation with an advisor, a student selects up to 18 credits of coursework required in the certification program for graduate credit. Additionally, the student enrolls in 12 credits of program core requirements. Listed below are the courses in each of the certification programs that can be taken for graduate credit.

#### Instruction

##### Middle Childhood/Early Adolescence (MCEA)

Code	Title	Credits
EXCEDUC 532	Assessment and Monitoring	3
EXCEDUC 574	Curriculum Accommodations II: Primary/Middle	3
EXCEDUC 588	Teaching Experience III	3
EXCEDUC 601	Behavioral Supports	3
EXCEDUC 662	Collaborative Strategies	3
EXCEDUC 605	Child, Learner, Disabilities	3
EXCEDUC 681	Literacy II	3

##### Deaf/Hard of Hearing (DHH)

Code	Title	Credits
EXCEDUC 533	Assessment/Monitoring : Deaf & Hard of Hearing	1
EXCEDUC 562	Hearing Science	3
EXCEDUC 563	Speechreading/Auditory Rehabilitation	3
EXCEDUC 564	Communication Methods Practicum	3
EXCEDUC 565	Techniques of Teaching School Subjects to Individuals w/Hearing Impairments II	3
EXCEDUC 587	Teaching Experience II	3
EXCEDUC 588	Teaching Experience III	3
EXCEDUC 605	Child, Learner, Disabilities	3
EXCEDUC 671	Behavior Support & Intervention for Mid/High Students with Disabilities	3

##### Early Adolescence/Adolescence (EAA)

Code	Title	Credits
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
EXCEDUC 532	Assessment and Monitoring	3
EXCEDUC 576	Curriculum Accommodations III: Functional for Middle to High Students	3
EXCEDUC 605	Child, Learner, Disabilities	3
EXCEDUC 635	Individualized Planning & Instructional Methods	2
EXCEDUC 636	Curriculum Accommodations	2
EXCEDUC 662	Collaborative Strategies	3
EXCEDUC 681	Literacy II	3

**Early Childhood Special Education (ECSE)**

Code	Title	Credits
EXCEDUC 568	Curriculum and Methods for Special Education: Birth to Three	3
EXCEDUC 569	Curriculum and Methods for Special Education: Preschool	3
EXCEDUC 570	Curriculum and Methods for Special Education: Primary	3
EXCEDUC 586	Teaching Experience I	3
EXCEDUC/CURRINS 612	Collaborations for Teachers with Families, Schools, and Communities	3
EXCEDUC/ED PSY 613	Infant and Early Childhood Assessment	3
EXCEDUC 647	Early Childhood Special Education Field Experience: 0 to 3 Yrs	3
EXCEDUC 648	Early Childhood Special Education Field Experience: Preschool	3
EXCEDUC 649	Early Childhood Special Education Field Experience: Primary	3
EXCEDUC 682	Language and Literacy in Early Childhood Special Education	3
EXCEDUC 776	Fieldwork with Students Having Early Childhood-Exceptional Education Needs	3

**Administration and Supervision**

In cooperation with Administrative Leadership.

Code	Title	Credits
AD LDSP 780	Internship in Student Service Administration	3
AD LDSP 805	Legislative and Legal Aspects of Special Education	3
EXCEDUC 579	Current Topics in Exceptional Education:	1-3
EXCEDUC 960	Seminar: Administration/Supervision of Programs for Exceptional Individuals	3
<b>Total Credits</b>		<b>10-12</b>

**General Option (15 credits)**

The general option for a Master's program in Exceptional Education is developed by identifying a theme of study that is based upon the student's educational background, areas of professional interest, and professional development goals. A theme, for example, may focus on assessment, instruction, policy, or other relevant issues in the area of special education. Courses are selected in consultation with a faculty advisor.

**Additional Requirements****Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

**Thesis**

A thesis or master's project is required for all students in the certification and general options. All students are required to present the results of their thesis or project at a seminar session in the semester in which they complete their degree.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Doctor of Philosophy in Urban Education Specialization in Exceptional Education**

Under the auspices of the doctoral program in Urban Education, the Department of Teaching and Learning provides doctoral training with a specialization in Exceptional Education. The program emphasizes the study of the socio-cultural context, educational policy, research-based practices, and systems change and reform to support learning and development of individuals with disabilities. Prospective doctoral students wishing to specialize in Exceptional Education must first be admitted to the Urban Education Doctoral Program. Admission and general program requirements can be obtained from the Director of Doctoral Studies in Urban Education. This program is described in detail on the Urban Education (p. 461) program page.

**Accelerated Program Option**

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

**Global Educator, Graduate Certificate**

The Global Educator Certificate prepares future educator professionals in K-12 schools or other educational settings to integrate global content and approaches into their professional practice. The certificate is designed for learners studying in graduate programs in the School of Education.

This 15-credit certificate will be available at two possible levels under the following terms:

- Graduate Students: Students formally admitted to and enrolled in a graduate program may count Global Educator Certificate credits toward their graduate degree program as allowed by the home department of their degree and Graduate Faculty Committee certificate policy.
- Post-Graduate: Teachers and others, who have completed a master's, doctoral degree, advanced certificate, or equivalent. Other post-graduates may seek the certificate as part of their preparation for National Board Certification. It is conceivable that a student holding a graduate degree and seeking additional advanced training short of another full graduate degree may be interested in this certificate.

**Learning Objectives and Competencies**

Students who have completed this certificate will be able to:

- Demonstrate their own awareness of the interconnectedness between communities, societies, economies, and events and trends that cross national borders.
- Embed global perspectives and practices in their teaching.
- Prepare students to become model global citizens who are culturally sensitive and informed about world affairs.
- Develop students' understanding of different cultures and languages, enhancing their ability to communicate across cultures.
- Create scholarship that engages in critical inquiry, creativity and intellectual development and includes world trends, issues and events; past, present and into the future.

## Admission Requirements

### Eligibility

To pursue this certificate, students must be enrolled in a graduate degree program at UWM.

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

This 15-credit certificate will be available at two possible levels under the following terms:

- Graduate Students: Students formally admitted to and enrolled in a graduate program may count Global Educator Certificate credits toward their graduate degree program as allowed by the home department of their degree and Graduate Faculty Committee certificate policy.
- Post-Graduate: Teachers and others, who have completed a master's, doctoral degree, advanced certificate, or equivalent. Other post-graduates may seek the certificate as part of their preparation for National Board Certification. It is conceivable that a student holding a graduate degree and seeking additional advanced training short of another full graduate degree may be interested in this certificate.

Code	Title	Credits
<b>Core Education Course</b>		<b>3</b>
ED POL 822	Global Educational Studies	
<b>Multicultural Education Course</b>		<b>3</b>
ED POL 823	Multicultural Education	
<b>International Study (at least 3 credits)</b>		<b>3</b>
CURRINS 497	Study Abroad	
or CURRINS 497	Study Abroad	
or ED POL 497	Study Abroad:	
or EXCEDUC 497	Study Abroad:	
or ED POL 698	Fieldwork in International Education	
<b>Electives</b>		<b>6</b>
Choose two graduate level courses with global content from other departments, as approved by your advisor.		
EXCEDUC 547	Comparative Special Education	

EXCEDUC 608	Multicultural Learning and Teaching in Special Education
ED POL 705	Sociology of Education and Community Engagement
CURRINS 734	Advanced Problems in the Teaching of Foreign Languages
CURRINS 721	Advanced Problems in the Teaching of Social Studies
CURRINS 779	Current Topics in Curriculum and Instruction:
CURRINS 729	Qualitative Research and Field Studies in Educational Settings

**Total Credits** **15**

## Additional Requirements

### Transfer Credit

A maximum of 3 credits may be transferred to count toward the Global Educator certificate program's 15-credit requirement. Transfer credits will be evaluated by the departmental faculty advisor for consideration, if the applicant can provide acceptable evidence that the course taken is substantially the same as one of the certificate courses within the last five years with a grade of B or better. Other credits earned prior to their intent to pursue the Global Educator certificate will not be awarded retroactively.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Global Educator, Undergraduate Certificate

The Global Educator Certificate prepares future educator professionals in K-12 schools or other educational settings to integrate global content and approaches into their professional practice.

### Requirements

Undergraduate applicants must have a minimum 2.75 cumulative undergraduate grade point average and must declare their intent to pursue the certificate before completion of six credits in the Global Educator Certificate sequence.

A minimum GPA of 3.0 is required in certificate courses.

Code	Title	Credits
<b>Core Education Course</b>		
ED POL 375	Cultural Foundations of Education	3
<b>Core Electives</b>		
<b>6</b>		
Global Foundations - choose one:		
GLOBAL 101	Introduction to Global Studies I: People and Politics	
GLOBAL 201	Introduction to Global Studies II: Economics and the Environment	
GLOBAL 202	Introduction to Global Studies III: Globalization and Technology	
Global Historical/Theoretical Perspectives in Education - choose one:		
EXCEDUC 547	Comparative Special Education	
ED POL 520	Peace Education	
ED POL 521	Nonviolence in Education	
CURRINS 313	Teaching Economics in the Social Studies Curriculum	
CURRINS 323	Teaching of Social Studies:	
CURRINS 637	World Language Methods and Materials	
CURRINS 639	Critical Issues and Methods in World Language Education	
<b>Global Learning Component - choose one:</b>		
<b>3</b>		
Any study abroad course (at least 3 credits)		
Fieldwork (major advisor approval needed)		
ED POL 688	Fieldwork in Multicultural Education	
ED POL 698	Fieldwork in International Education	
CURRINS 240	Field Experience with Dual Language Learners	
<b>Other Electives</b>		
<b>3</b>		
CURRINS 233	Introduction to Children's and Young Adult Literature	
CURRINS 240	Field Experience with Dual Language Learners	
CURRINS 297	Study Abroad:	
CURRINS 312	Models and Issues for Early Childhood Education	

CURRINS 497	Study Abroad
CURRINS 501	Language Acquisition for Children of Diverse Backgrounds
CURRINS 503	Assessment Issues in Language Education
CURRINS 508	Language and Urban Schooling
CURRINS 541	Principles and Methods of Teaching ESL
CURRINS 542	History and Politics of Second Language Education
CURRINS 543	Developing Biliteracy
CURRINS 546	Language, Content, and Comprehensible Input
CURRINS 550	Using Children's Literature to Explore Latin Am/Latino Cultural Heritage
CURRINS 651	Literature for the Young Child
CURRINS 655	Applied Educational Linguistics
ED POL 315	Group Process and Civic Engagement:
GLOBAL 311	Contexts for Global Management
GLOBAL 351	Language, Media, and Social Practice in Global Communications
GLOBAL 361	Environment and Sustainability
GLOBAL 362	System Failure: Globalization and Language Extinction
GLOBAL 371	Rethinking Global Security
GLOBAL 421	Cities in the Global Economy
GLOBAL 443	Medicine and Pharmaceuticals in the Global Age
GLOBAL 447	The Global Politics of Human Rights
GLOBAL 451	Access, Security, and Intercultural Contexts in Global Communications
GLOBAL 461	The Politics and Policy of Sustainability
GLOBAL 471	Strategies for Realizing Security in Global Contexts
GLOBAL 541	Cross-Cultural Management
GLOBAL 699	Advanced Independent Study
<b>Total Credits</b>	<b>15</b>

## Interdisciplinary Language and Literacy Intervention (ILLI), Graduate Certificate

This graduate certificate program offers a unique opportunity for students interested in language and literacy intervention to gain and apply knowledge about research, theory and practice across a variety of relevant disciplines. Prospective language and literacy specialists venturing into today's school environments would benefit from an understanding of leadership, teaching and learning theory, research, and effective practice across the broad range of disciplines involved in interventions. Successful interventionists require many tools to teach, as well as the skills to know when and how to apply those tools. These skills come from a critical, reflective understanding of the research and theory, as well as a complex problem-solving approach to assessment and instruction. The 16-credit certificate program is multi-disciplinary, drawing upon current coursework in Educational Psychology, and



Teaching and Learning in the School of Education, as well as courses in Communication Sciences and Disorders in the College of Health Sciences.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants must have completed a bachelor’s degree prior to admission and a minimum 2.75 cumulative undergraduate grade point average. Applicants with a graduate degree must have a minimum 3.0 graduate grade point average.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Sixteen credits are required as indicated below:

Code	Title	Credits
<b>Required Core</b>		
ED PSY 748	Oral Language, Cognition, and Literacy	3
<b>Language and Literacy Intervention Electives</b>		
Select 12 credits from the following:		12
COMSDIS 661	The Role of the Speech-language Pathologist in Literacy	
COMSDIS 799	Independent Studies (Application of Theory to Learning Activities (1 credit))	
CURRINS 543	Developing Biliteracy	
CURRINS 646	University of Wisconsin System Reading Research Symposium	
CURRINS 647	Early Reading Empowerment: Part 1	
CURRINS 648	Early Reading Empowerment: Part 2	
CURRINS 747	Reading Assessment and Instruction with Practicum: K-12 Part I	
CURRINS 748	Reading Assessment and Instruction with Practicum, K-12: Part II	
CURRINS 846	Seminar in Developmental Reading: (with the topic of “Current Trends in Literacy”)	

CURRINS 849	Guiding and Directing School Reading Programs K-12
CURRINS 740	UWM Writing Project: Teachers as Writers
CURRINS 741	UWM Writing Project: Teacher Leadership in Writing
ED PSY 760	Academic Intervention and Alternative Assessment
ED PSY 779	Current Topics in Educational Psychology: (with the topic of “Self-Regulation Assessment and Interventions”)
ED PSY 852	Social, Psychological, and Biological Basis of Learning Disorders
EXCEDUC 685	Advanced Methods in Learning Disabilities
LINGUIS 570	Issues in Bilingualism
Other LINGUIS courses upon approval of the Certificate Director	

### Required Core Capstone

ILLI Capstone – Independent Study with advisor	1
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**Total Credits** **16**

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Mathematics Teacher Leadership, Graduate Certificate

This certificate program provides teachers with current professional knowledge of mathematics teaching, learning trajectories, and assessment. It also imparts mathematical knowledge specialized for teaching and content-focused coaching strategies to improve instruction and student learning in mathematics.

Certificate completers will be positioned to contribute mathematics leadership as members of collaborative professional learning communities in schools, school districts, and other educational settings.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

Applicants must have completed a bachelor's degree with a 2.75 undergraduate GPA or a graduate degree with a minimum 3.0 GPA and must have teaching experience in mathematics. Applicants must also complete the reason statement in the application.

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Credits and Courses

Students complete 15-credits of coursework, including courses in instructional improvement, mathematics education, and mathematics instruction leadership.

Code	Title	Credits
<b>Instructional Improvement</b>		
Select 3-6 credits from the following:		3-6

CURRINS 560	Improving Mathematics Teaching and Learning: (Subtitled)
CURRINS 714	Analysis of Instruction to Improve Teaching and Learning
CURRINS 715	Guiding Instructional Improvement
CURRINS 725	Improving Teaching and Learning with Classroom-Based Assessments

#### Mathematics Education

Select 6-10 credits from the following:		6-10
CURRINS 580	Mathematics Education: (Subtitled)	
CURRINS 720	Curriculum and Standards for School Mathematics	
CURRINS 624	Instructional Trajectories for Fraction Concepts and Operations	
CURRINS 625	Principles and Practices of Teaching Geometry and Geometric Thinking	
CURRINS 626	Principles and Practices of Teaching Algebraic Reasoning	
CURRINS 730	Mathematics in Elementary Education	
CURRINS 731	Mathematics in the Secondary School	
CURRINS 779	Current Topics in Curriculum and Instruction: (Mathematics education subtitle)	

#### Capstone

CURRINS 761	Mathematics Instructional Leadership	3
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**Total Credits** 12-19

### Additional Requirements

#### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. Transfer credits will be considered only if the applicant can provide evidence that the course is substantially the same as an approved course in the certificate program. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

#### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

#### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Transition for Students with Disabilities, Graduate Certificate

The Transition for Students with Disabilities Graduate Certificate provides students with increased knowledge and awareness of state-of-the-art transition planning, as well as experience with specific strategies related to transition assessment, instruction, and community/business collaboration. Those who complete the Transition for Students with Disabilities Certificate program will be able to critically examine and implement effective transition planning while ensuring students are accessing the general education curriculum; effectively collaborate with the business and general community to access work and post-secondary experiences for students with disabilities; implement customized job development strategies to meet the needs of students and the business; identify and collaborate with various community based organizations; learn strategies to develop self-determination and self-advocacy skills for students with disabilities; and understand cultural and ethnic diversity issues related to transition planning.

The courses are aligned with the APSE ([www.apse.org](http://www.apse.org) (<http://www.apse.org>)) professional standards and will provide the knowledge and skills to pass the national Certification of Employment Support Professionals (CESP).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants must have completed a bachelor’s degree prior to admission, with a minimum 2.75 cumulative undergraduate grade point average. Applicants with a graduate degree must have a minimum 3.0 graduate grade point average. Applicants must also complete the reason statement in the application.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School

through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).

- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The certificate requires a minimum of 15 credits. Students take five required courses and then, in consultation with the Program Coordinator, they may choose to take an optional 3 credit course in Business Management for more in-depth knowledge of working with the business community.

Code	Title	Credits
<b>Required</b>		
EXCEDUC 679	Critical Issues in Transition Planning for Students with Disabilities	3
EXCEDUC 703	Job Development and On the Job Support for Individuals with Disabilities	3
EXCEDUC 705	Transition Assessment for Individuals with Disabilities	3
EXCEDUC 707	Linking Academics and Self-Determination to Transition Planning	3
<b>Elective Course</b>		<b>3</b>
<i>Choose one:</i>		
AD LDSP 598	Introduction to Workforce Education and Development	
BUS ADM 360	Principles of Marketing	
BUS ADM 444	Human Resources Management	
BUSMGMT 708	Marketing Strategy: Concepts and Practice	
BUSMGMT 715	Leadership, Team Building, and Effective Management	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not

contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)

- Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
  3. A course may count toward no more than one certificate and one degree.
  4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# World Language Education, Minor

The World Languages minor is designed for individuals who wish to earn a Wisconsin teaching certification to teach a foreign language. Students wishing to pursue this certification must be in the process of obtaining or already have an initial certification.

## Requirements

Students wishing to pursue this certification must be in the process of obtaining or already have an initial certification.

## Language Content Area

Complete total credits in chosen language, plus any prerequisites.

Code	Title	Credits
<b>American Sign Language</b>		
EXCEDUC 301	American Sign Language I	3
EXCEDUC 302	American Sign Language II	3
EXCEDUC 303	American Sign Language III	3
EXCEDUC 304	American Sign Language IV	3
EXCEDUC 305	American Sign Language V	3
EXCEDUC 306	American Sign Language VI	3
EXCEDUC 325	ASL V Lab	1
EXCEDUC 326	ASL VI Lab	1
EXCEDUC 327	Classifiers Lab	1
EXCEDUC 330	Deaf History	3
EXCEDUC 346	Skill Development: Semantics	3
EXCEDUC 352	American Deaf Culture	3
EXCEDUC 358	ASL/English Linguistics I	3
EXCEDUC 363	ASL/English Linguistics II	3
EXCEDUC 500	Fingerspelling & Numbers	3
EXCEDUC 510	Classifiers	3

EXCEDUC 520	ASL Literature	3
<b>Total Credits</b>		<b>45</b>

Code	Title	Credits
<b>Chinese</b>		
Reading, Writing, and Linguistic Development		
CHINESE 201	Third Semester Chinese	5
CHINESE 202	Fourth Semester Chinese	5
CHINESE 301	Fifth Semester Chinese	4
CHINESE 302	Sixth Semester Chinese	4
Literature or Cultural Elective (choose one):		3
CHINESE 320	Contemporary Chinese Societies through Film	
CHINESE 330	Chinese Language and Culture	
CHINESE 401	Seventh Semester Chinese	
CHINESE 402	Eighth Semester Chinese	
CHINESE 441	Business Chinese	
CHINESE 497	Study Abroad:	
AMLLC 699	Advanced Independent Study	
<b>Total Credits</b>		<b>21</b>

Code	Title	Credits
<b>French</b>		
Reading and Writing Development		
FRENCH 204	Fourth-Semester French	3
FRENCH 303	Conversation and Composition: Intermediate Level	3
Linguistics		
FRENCH 392	Phonetics	3
Literature		
FRENCH 332	Reading French Texts	3
Literature Elective (choose one):		3
FRENCH 357	Literature of the French-Speaking World in Translation:	
FRENCH 431	Seminar in Literature of the Francophone World:	
FRENCH 433	Seminar in French Literature:	
FRENCH 510	Seminar on Masterpieces of Literature Written in French:	
FRENCH 520	Seminar in Contemporary French Literature:	
Culture Elective (choose one):		3
FRENCH 410	French Immersion: Advanced	
FRENCH 426	Growing Up French	
FRENCH 428	Castles, Cathedrals, and Common People: The Foundations of French Culture	
FRENCH 429	Royalty, Reason, and Revolution: The Golden Age of French Culture	
FRENCH 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries	
FRENCH 432	Seminar in French and Francophone Cultures:	
FRENCH 450	Institutions and Culture of Contemporary France	

FRENCH 451	Cinema of the French-Speaking World:	
<b>Total Credits</b>		<b>18</b>
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>German</b>		
Reading and Writing Development		
GERMAN 204	Fourth-Semester German	3
GERMAN 332	Presentation and Composition	3
Linguistics		
GERMAN 331	German Grammar in Practice	3
Literature		
GERMAN 333	Texts and Contexts	3
Culture Elective (choose one): 3		
ARTHIST 366	German Painting, 1800-1933	
ARTHIST 465	Dada and Surrealist Art	
GEOG 330	Europe: East and West	
GERMAN 111	German Life and Civilization: Part I	
GERMAN 112	German Life and Civilization: Part II:	
GERMAN 145	Views of Germany:	
GERMAN 334	Introduction to German Studies	
HIST 248	The First World War	
HIST 249	The Second World War in Europe	
HIST 363	Germany: Hitler and the Nazi Dictatorship	
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	
JEWISH 261	Representing the Holocaust in Words and Images	
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	
POL SCI 334	German Politics and the New Europe	
Linguistics, Literature, or Culture 300+ Electives (choose two): 6		
ARTHIST 366	German Painting, 1800-1933	
ARTHIST 465	Dada and Surrealist Art	
GEOG 330	Europe: East and West	
GERMAN 334	Introduction to German Studies	
HIST 363	Germany: Hitler and the Nazi Dictatorship	
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	
POL SCI 334	German Politics and the New Europe	
<b>Total Credits</b>		<b>21</b>
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Italian</b>		
Linguistics, Reading, and Writing Development		
ITALIAN 311	Advanced Conversation and Composition: Contemporary Italian Usage	3
ITALIAN 312	Contemporary Italian Language and Culture	3

Literature Elective (choose one):		3
ITALIAN 321	Introduction to Italian Literature	
ITALIAN 322	Introduction to Italian Literature and Film	
ITALIAN 457	Topics in Italian Literature and Culture in Translation:	
Culture Elective (choose one):		3
ITALIAN 145	Views of Italy:	
ITALIAN 256	Introduction to Italian Food Studies: A Cultural History	
ITALIAN 258	Contemporary Italian Society and Culture	
Linguistics, Literature, or Culture 300+ Elective (choose two):		6
ARTHIST 333	High Renaissance Art in Italy	
CLASSIC 303	The Life and Literature of the Roman Empire	
CLASSIC 304	The Graeco-Roman World:	
ITALIAN 321	Introduction to Italian Literature	
ITALIAN 322	Introduction to Italian Literature and Film	
ITALIAN 333	Dante's Divine Comedy in Translation	
ITALIAN 342	Italian Immigration: A Sociocultural History	
ITALIAN 397	Study Abroad:	
or ITALIAN 497	Study Abroad:	
ITALIAN 457	Topics in Italian Literature and Culture in Translation:	
<b>Total Credits</b>		<b>18</b>
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Latin</b>		
Reading and Writing Development		
LATIN 103	First Semester Latin	4
LATIN 104	Second Semester Latin	4
LATIN 205	Third Semester Latin	4
Literature Electives (choose two):		6
LATIN 306	Readings in Latin Literature:	
LATIN 501	Readings in Latin Prose:	
LATIN 502	Readings in Latin Poetry:	
LATIN 699	Directed Reading	
Literature or Culture Elective (choose one):		3
ANTHRO 305	The Celtic World	
ARTHIST 313	Greek Art and Archaeology	
ARTHIST 314	Art and Archaeology of the Ancient Near East	
ARTHIST 315	Art and Archaeology of Ancient Egypt	
ARTHIST 316	Roman Art and Archaeology	
ARTHIST 412	Cities and Sanctuaries of Ancient Greece	
ARTHIST 413	Greek Sculpture	
CLASSIC 201	Introduction to Greek Life and Literature	
CLASSIC 301	The Life and Literature of Classical Athens: Herodotus and Dramatists	

CLASSIC 303	The Life and Literature of the Roman Empire	
GREEK 306	Readings in Ancient Greek Literature:	
GREEK 501	Readings in Classical Greek Prose:	
GREEK 502	Readings in Ancient Greek Poetry:	
HIST 303	A History of Greek Civilization: The Greek City-State	
HIST 304	A History of Greek Civilization: The Age of Alexander the Great	
HIST 307	A History of Rome: The Republic	
HIST 308	A History of Rome: The Empire	

**Total Credits** 21

**Code Title Credits**  
**Spanish**

Reading and Writing Development

SPANISH 308 Advanced Writing and Reading 3

Reading and Writing Development Elective (choose one): 3

SPANISH 318 Advanced Speaking and Listening

SPANISH 319 Advanced Speaking and Listening for Heritage Speakers

Linguistics (choose one): 3

SPANISH 341 Introduction to Hispanic Linguistics

SPANISH 443 Spanish Phonetics and Phonology

SPANISH 444 Spanish Syntax and Morphology

SPANISH 446 Hispanic Sociolinguistics

SPANISH 545 Seminar in Hispanic Linguistics:

Literature Electives (choose two): 6

SPANISH 350 Introduction to Literary Analysis (preferred course)

SPANISH 470 Survey of Hispanic Literature and Civilization

SPANISH 472 Survey of Spanish-American Literature and Civilization

SPANISH 474 Survey of Spanish Literature and Civilization

SPANISH 506 Seminar in Spanish Literature:

SPANISH 507 Seminar in Spanish-American Literature:

SPANISH 508 Seminar in Hispanic Literature:

SPANISH 570 Seminar in Spanish Golden Age Literature:

SPANISH 572 Seminar on Cervantes:

SPANISH 578 Seminar in Modern Spanish Literature and Civilization:

Literature, Linguistics, or Culture Elective (choose one): 3

SPANISH 341 Introduction to Hispanic Linguistics (preferred course)

SPANISH 350 Introduction to Literary Analysis (preferred course)

SPANISH 371 Introduction to Latino Literature in English

SPANISH 373 Topics in Latino Literature in English:

SPANISH 443 Spanish Phonetics and Phonology

SPANISH 444 Spanish Syntax and Morphology

SPANISH 446	Hispanic Sociolinguistics	
SPANISH 470	Survey of Hispanic Literature and Civilization	
SPANISH 472	Survey of Spanish-American Literature and Civilization	
SPANISH 474	Survey of Spanish Literature and Civilization	
SPANISH 506	Seminar in Spanish Literature:	
SPANISH 507	Seminar in Spanish-American Literature:	
SPANISH 508	Seminar in Hispanic Literature:	
SPANISH 545	Seminar in Hispanic Linguistics:	
SPANISH 570	Seminar in Spanish Golden Age Literature:	
SPANISH 572	Seminar on Cervantes:	
SPANISH 578	Seminar in Modern Spanish Literature and Civilization:	

**Total Credits** 18

**Code Title Credits**  
**Japanese**

Linguistic, Reading, and Writing Development

JAPAN 201 Third-Semester Japanese 5

JAPAN 202 Fourth-Semester Japanese 5

JAPAN 301 Fifth Semester Japanese 4

JAPAN 302 Sixth Semester Japanese 4

Linguistics, Literature, or Culture Elective (choose one): 3

JAPAN 331 Reading Japanese Short Stories

JAPAN 332 Extensive Reading in Japanese

JAPAN 345 Japanese News Media

JAPAN 352 Japanese Performance Traditions: Readings

JAPAN 355 Seminar in Japanese Literature and Culture:

JAPAN 361 Translating Japanese Media

JAPAN 370 Fun Kanji

**Total Credits** 21

**Code Title Credits**  
**Arabic**

Reading, Writing, and Linguistic Development

ARABIC 201 Third Semester Arabic 5

ARABIC 202 Fourth Semester Arabic 5

ARABIC 301 Fifth Semester Arabic 3

ARABIC 302 Sixth Semester Arabic 3

Literature or Cultural Elective (choose one): 3

ARABIC 489 Internship in Arabic, Upper Division

ARABIC 497 Study Abroad:

ARABIC 499 Ad Hoc:

ARABIC 699 Advanced Independent Study

**Total Credits** 19

## Professional Education Requirements <sup>1</sup>

Code	Title	Credits
CURRINS 350	Field Seminar in Language Education	1
CURRINS 437 & CURRINS 637	Pre-Student Teaching in World Language Education and World Language Methods and Materials <sup>2</sup>	6
CURRINS 445	Seminar in Language Education <sup>3</sup>	3
CURRINS 438	Student Teaching in World Language Education	3
CURRINS 542	History and Politics of Second Language Education	3
CURRINS 543	Developing Biliteracy	3
CURRINS 546	Language, Content, and Comprehensible Input	3
<b>Total Credits</b>		<b>22</b>

<sup>1</sup> A grade of C or better is required for all professional education requirements, including student teaching. Prerequisites may be required.

<sup>2</sup> Concurrent enrollment in these courses is required. Students must complete paperwork in order to be assigned a student teaching placement. To be approved for placement, additional criteria must be met. See Benchmarks (p. 447) for details.

<sup>3</sup> Not required for students who are currently completing a portfolio in their major certification.

## Additional Requirements for Certification

- Minimum cumulative grade point average of 2.75 in all professional education courses. This includes any transfer coursework that is counted towards certification at UWM, as well as grades earned in student teaching or field experiences.
- Undergraduate students must meet the graduation requirements for their primary certification.
- Program Portfolio - based on the 10 WI Teacher Standards.

## Benchmarks

### Student Teaching

Prior to requesting/being assigned a student teaching placement, students must:

- Demonstrate Foreign Language Proficiency - A minimum score of Intermediate-High on the ACTFL OPI or equivalent is required prior to student teaching placement. Submit scores from your language proficiency test to your academic advisor.
- Complete an Immersion Experience - Required for all prospective language teachers, this requirement must be met by spending a semester or a year in a country where the chosen major language is spoken. Submit documentation of immersion experience to your academic advisor prior to student teaching placement.
- Complete and submit an application. Deadlines for submission are posted by the Office of Clinical Experiences. (<http://uwm.edu/education/academics/clinical-experiences/>)

To be approved, students must **ALSO** meet the following criteria:

- Be admitted to the School of Education
- Complete all required coursework. An exception to allow a student to take a course concurrently with student teaching requires approval by the student's faculty advisor.
- Have a minimum cumulative GPA of 2.5 on all undergraduate coursework, including transfer courses.
- Have a minimum 2.75 GPA in all content area and professional education courses.
- Passing scores reflected on your transcript for the Praxis II exam: English to Speakers of Other Languages: Content Knowledge #5361.
- Removal of all F and/or I (incomplete) grades.
- TB test results submitted to the Office of Clinical Experiences (may take up to 6 weeks).
- Criminal Background Check submitted to the Office of Clinical Experience

## Undergraduate Advising

Our purpose is to provide collaborative, mentoring relationships which promote educational, career, and professional development. We value a student-centered, holistic, and ethical approach to advising based on strong partnerships with students, faculty and staff, and the larger campus community. We are committed to creating a respectful and supportive environment. We encourage students to be self-reliant through informed decisions and choices based upon dissemination of accurate information. We value our own continuous professional development to enhance the quality of the advising experience.

### How to Prepare for an Advising Meeting

- Review your Advisement Report in PAWS (<http://uwm.edu/registrar/academic-unit-services/paws-academic-advisement/>).
- Come prepared with questions or topics for discussion.
- Make a list of courses you think you should take.
- Investigate opportunities to prepare for the job you want.
- Keep a record of your academic progress.
- Understand you are ultimately responsible for creating your educational, life, and career plans.
- Maintain honest and open communication with your advisor.
- Take responsibility for choices you make as a student and member of the UW-Milwaukee community.

### Scheduling an Appointment

Office of Student Services  
 Enderis Hall, Room 209  
 (414) 229-4721  
[soeinfo@uwm.edu](mailto:soeinfo@uwm.edu)

### Graduate Advising

If you are a School of Education graduate student, you may schedule an appointment with your faculty advisor by contacting your faculty advisor directly. Faculty contact information can be found in the Directory (<https://uwm.edu/education/directory/>). Your faculty advisor will be listed in your PAWS account.

## Urban Education

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum

and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Cognitive and Developmental Sciences, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (<http://uwm.edu/graduateschool/educational-psychology/>). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills in institutions of higher education, public or private school settings, federal, state or local governmental agencies, community organizations, and the private sector.

## Cooperating Departments

- Administrative Leadership
- Curriculum and Instruction
- Educational Policy and Community Studies
- Educational Psychology
- Exceptional Education
- Information Studies (School of)

## Programs

- Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL) (p. 449)
- Urban Education, PhD: Art Education (p. 452)
- Urban Education, PhD: Curriculum and Instruction (p. 455)
- Urban Education, PhD: Educational Administration (p. 458)
- Urban Education, PhD: Exceptional Education (p. 461)
- Urban Education, PhD: Mathematics Education (p. 464)
- Urban Education, PhD: Multicultural Studies (p. 467)
- Urban Education, PhD: Social Foundations of Education (p. 470)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Cheryl Baldwin	Associate Professor	PhD	University of Illinois-Urbana	✓	
Barbara Bales	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Maggie Bartlett	Associate Professor	PhD	Arizona State University	✓	
Craig Berg	Professor	PhD	University of Iowa	✓	
Simone Conceição	Professor	PhD	University of Wisconsin-Madison		✓
Kimberly Cosier	Professor	PhD	Indiana University	✓	
Candance Doerer-Stevens	Associate Professor	PhD	University of Minnesota	✓	
Dave Edyburn	Professor	PhD	University of Illinois at Urbana Champaign		✓
Leanne Evans	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	
Raquel Farmer-Hinton	Associate Professor	PhD	University of Illinois at Urbana Champaign	✓	
Elise Frattura	Professor	PhD	University of Wisconsin-Madison	✓	
Tania Habeck	Associate Professor	PhD	University of South Florida	✓	
Jeffrey Hawkins	Associate Professor	PhD	University of San Francisco	✓	
DeAnn Huinker	Professor	PhD	University of Michigan	✓	
Sara Jozwik	Assistant Professor	PhD	Illinois State	✓	



Julie Kailin	Associate Professor	PhD	University of Wisconsin-Madison	✓
Larry Martin	Professor	PhD	University of Wisconsin-Madison	✓
Liliana Mina	Clinical Associate Professor	PhD	Michigan State University	✓
Laura Owens	Associate Professor	PhD	University of Wisconsin-Madison	✓
Donna Pasternak	Professor	PhD	New York University	✓
Tracy Posnanski	Associate Professor			✓
Kalyiani Rai	Associate Professor	PhD		✓
Nancy Rice	Associate Professor	PhD	Syracuse University	✓
Dante Salto	Assistant Professor	PhD	SUNY Albany	✓
Marie Sandy	Associate Professor	PhD	Claremont Graduate University	✓
Aaron Schutz	Professor	PhD	University of Michigan	✓
Ruth Short	Associate Professor	PhD	University of Minnesota	✓
Raji Swaminathan	Professor	PhD	Syracuse University	✓
Javier Tapia	Associate Professor	PhD	Arizona State University	✓
Alfonzo Thurman	Professor	PhD	University of Wisconsin-Madison	✓
Leigh Wallace	Assistant Professor	PhD	University of Wisconsin-Milwaukee	✓
Gary Williams	Associate Professor	PhD		✓

## Urban Education, PhD: Adult, Continuing, and Higher Education Leadership (ACHEL)

### Specialization Overview

The primary mission of the specialization in Adult, Continuing, and Higher Education Leadership (ACHEL) is to prepare individuals for leadership positions in urban adult, continuing, and higher educational organizations. The specialization will assist students to examine changing perspectives on urban postsecondary, adult and continuing educational organizations; changing notions of urban adult, continuing, and higher education teaching and learning; and the changing roles of the students, teachers, researchers, and administrators who work and study within urban adult, continuing, and higher education organizations.

For course descriptions in this area, visit the Administrative Leadership page (p. 1405).

### Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership

issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (p. 355). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

### Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission. Applicants must also complete the reason statement in the application.

### Graduate Record Examination

GRE scores are not required for admission to program.

### Grade Point Average

Applicants must have an undergraduate GPA of 2.75.

Check with specializations that might have additional requirements.

### Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from **one** of the following options:

1. Master's Thesis
2. Undergraduate Senior Thesis
3. Technical Report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. Writing sample or written response showing evidence of analytical and argumentative writing and reasoning. The response should address the following: How would you conceptualize and analyze issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

### Reasons Statement

A Reasons Statement is used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. In the statement:

- Explain your reasons for pursuing graduate study.
- Describe specific interests and your background in the field.
- List any relevant skills or training you have acquired.
- List relevant academic awards or honors you have received.

### Curriculum Vitae/Resume

All UEDP applicants are required to submit a current Curriculum Vitae/Resume.

### Recommendations

The program requires 3 letters of recommendation. These letters must be submitted through the application's electronic recommendation feature by the recommenders themselves. Letters uploaded or sent by the applicant will not be accepted. If possible, please provide your recommenders with a summary of your application materials. Feel free

to encourage your recommenders to provide illustrations linking your experiences and abilities with the aims of the doctoral specialization.

### Application

Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited.

Students should apply by December 1st of the year prior to entry, or earlier, if they plan to apply for University-wide fellowships. Applications completed after the priority deadline will be reviewed on a rolling basis up until April 1st for Fall admission of that calendar year.

***Application materials MUST be submitted by April 1st in order to be admitted for the fall semester.***

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor's degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student's goals.

The program of studies includes the following:

### The Doctoral Seminars

All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment.

Code	Title	Credits
EDUC 701	Critical Issues in Urban Education	3
EDUC 801	Seminar in Urban Education	3
EDUC 901	Advanced Seminar in Urban Education	3

### Research Requirement

Department specialization requirements may exceed those specified here.

Code	Title	Credits
Choose one:		
ED PSY 724	Educational Statistical Methods II (prerequisite is ED PSY 624)	3-4
ED PSY 728	Techniques of Educational Research (prerequisite is ED PSY 624)	

CURRINS/AD LDSP 729	Qualitative Research and Field Studies in Educational Settings	3
	Additional advanced-level (600 or above) coursework from either a qualitative track or quantitative track	6
	Approved research design course	3
<b>Total Credits</b>		<b>15-16</b>

All students must demonstrate knowledge in this area by completing the specialization equivalent to the preliminary exam and successfully defending a dissertation.

### Designated Specialization

Students indicate a specific area of specialization by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

### Residency

Residence requirements cannot be met at the master's level, and must be fulfilled before you can achieve dissertator status. There are two types of doctoral residency that must be met:

#### Academic Year Requirement

You must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. This requirement is intended to provide immersion in the chosen discipline and foster participation in the community of scholars.

#### 50% Requirement

At least 50% of the graduate credits required for your PhD program must be completed at UWM in doctoral status.

### Adult, Continuing, and Higher Education Leadership Specialization

Subsequent to UEDP admission, the student must submit a program of studies for the concentration in Adult, Continuing, and Higher Education Leadership, developed in conjunction with the student's faculty advisor and committee, to the Director of the Urban Education Doctoral Program.

The student must meet all of the program requirements of the Urban Education Doctoral Program. The specialization in Adult, Continuing, and Higher Education Leadership consists of a minimum of (34) graduate credits excluding dissertation credits.

The coursework will be structured as follows:

Code	Title	Credits
<b>Required</b>		
AD LDSP 827	Seminar in Adult and Organizational Learning	3
AD LDSP 897	Seminar-Philosophy and History of Adult, Continuing & Higher Education	3
AD LDSP 967	Seminar in Urban Adult, Continuing, and Higher Education	3
AD LDSP 999	Independent Reading	3

Students with no background in Adult, Continuing and Higher Education would enroll in the following during their first semester of coursework:		0-3
AD LDSP 709	Introduction to Higher Education Administration	
or AD LDSP 757	Principles and Foundations of Adult Education	
<b>Total Credits</b>		<b>12-15</b>

### Electives

Code	Title	Credits
AD LDSP 607	Coordination of Staff Development and Training Program	3
AD LDSP 631	Emerging Research in Human Resource Development	3
AD LDSP 632	International Cross-Cultural Experiences in Developing Human Resources	3
AD LDSP 647	Evaluation of Adult, Continuing, and Higher Education Programs	3
AD LDSP 667	Program Planning in Adult Education	3
AD LDSP 687	Instructional Design and Teaching Strategies	3
AD LDSP 691	Leadership Ethics in Multicultural Organizations	1
AD LDSP 692	Quality Management in Education	1
AD LDSP 693	Decision Making in Multicultural Organizations	1
AD LDSP 702	Leadership in Educational Organizations	3
AD LDSP 707	Using Technology With Adult Learners	3
AD LDSP 709	Introduction to Higher Education Administration	3
AD LDSP 710	Organizational Change and Team Leadership	3
AD LDSP 711	Organization and Governance in Higher Education Administration	3
AD LDSP 737	Distance Education for Adults	3
AD LDSP 740	Seminar in Innovative Technologies for Learning in Education	3
AD LDSP 747	Strategic Planning and Budgeting in Adult, Continuing, and Higher Education	3
AD LDSP 757	Principles and Foundations of Adult Education	3
AD LDSP 777	Leadership in Multicultural Organizations	3
AD LDSP 778	Introduction to College Student Personnel Administration	3
AD LDSP 787	Administration of Adult Education Programs	3
AD LDSP 795	Women and Leadership in Education	3
AD LDSP 797	The Student in the Collegiate Context	3
AD LDSP 798	Seminar in Human Resource Development	3
AD LDSP 867	Seminar in Continuing Education in the Professions	3

AD LDSP 877	Seminar in Two-Year Post Secondary Institutions	3
AD LDSP 900	Role of the Professoriate	3
AD LDSP 978	Seminar in Student Personnel Administration	3
ED POL 705	Sociology of Education and Community Engagement	3

## Additional Requirements

### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from their intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from their specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

### Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

### Doctoral Committee Membership

The dissertation advisor is an Urban Education doctoral advisor and member of the Department of Administrative Leadership. At least two other committee members must be from the Department of Administrative Leadership.

### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

### Dissertation

The candidate must present a dissertation reporting the results of an original research study appropriate to the student's program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

### Time Limit

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

### Other Requirements

This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies.

Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>).

### Exit Requirements

Contingent upon successful completion of program requirements, the doctoral preliminary examination, and the dissertation defense, the Chair of the Department of Administrative Leadership must give final approval for the inclusion of "Urban Education: Adult, Continuing, and Higher Education Leadership" on the student's transcript.

## Urban Education, PhD: Art Education

*Effective Fall 2021, the Art Education specialization has suspended admission.*

### Specialization Overview

The program is designed to permit students to integrate their particular media and curricular interests in art and art education with theoretical knowledge and educational practices tied to the contexts of urban education and community studies. An art education specialization provides each graduate student with opportunities for growth as an artist, teacher, and researcher through the development of their own arts practices and the study of the social and cultural implications of the arts in society and among learners. The program emphasizes the exploration of media, the development of socially responsive art curricula in urban environments, and research using disciplines of inquiry in the arts and art education.

The program requires each participant to develop research skills using qualitative and quantitative methods. The PhD is a research degree, not just a professional preparation degree. Mastery of these skills is demonstrated through coursework, research projects, and the dissertation. Many graduates apply their skills in institutions of higher education; public or private school settings; federal, state, or local governmental agencies; community organizations; and the private sector.

### Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban

schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (p. 355). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

## Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

## Requirements

### Admission Requirements

*Effective Fall 2021, the Art Education specialization has suspended admission.*

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission. Applicants must also complete the reason statement in the application.

### Graduate Record Examination

GRE scores are not required for admission to program.

### Grade Point Average

Applicants must have an undergraduate GPA of 2.75.

Check with specializations that might have additional requirements.

### Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from **one** of the following options:

1. Master's Thesis
2. Undergraduate Senior Thesis
3. Technical Report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. Writing sample or written response showing evidence of analytical and argumentative writing and reasoning. The response should address the following: How would you conceptualize and analyze issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

### Reasons Statement

A Reasons Statement is used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. In the statement:

- Explain your reasons for pursuing graduate study.
- Describe specific interests and your background in the field.
- List any relevant skills or training you have acquired.
- List relevant academic awards or honors you have received.

### Curriculum Vitae/Resume

All UEDP applicants are required to submit a current Curriculum Vitae/Resume.

### Recommendations

The program requires 3 letters of recommendation. These letters must be submitted through the application's electronic recommendation feature by the recommenders themselves. Letters uploaded or sent by the applicant will not be accepted. If possible, please provide your recommenders with a summary of your application materials. Feel free to encourage your recommenders to provide illustrations linking your experiences and abilities with the aims of the doctoral specialization.

### Application

Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited.

Students should apply by December 1st of the year prior to entry, or earlier, if they plan to apply for University-wide fellowships. Applications

completed after the priority deadline will be reviewed on a rolling basis up until April 1st for Fall admission of that calendar year.

**Application materials MUST be submitted by April 1st in order to be admitted for the fall semester.**

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor's degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student's goals.

The program of studies includes the following:

### The Doctoral Seminars

All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment.

Code	Title	Credits
EDUC 701	Critical Issues in Urban Education	3
EDUC 801	Seminar in Urban Education	3
EDUC 901	Advanced Seminar in Urban Education	3

### Research Requirement

Department specialization requirements may exceed those specified here.

Code	Title	Credits
Choose one:		3-4
ED PSY 724	Educational Statistical Methods II (prerequisite is ED PSY 624)	
ED PSY 728	Techniques of Educational Research (prerequisite is ED PSY 624)	
CURRINS/AD LDSP 729	Qualitative Research and Field Studies in Educational Settings	3
Additional advanced-level (600 or above) coursework from either a qualitative track or quantitative track		6
Approved research design course		3
<b>Total Credits</b>		<b>15-16</b>

All students must demonstrate knowledge in this area by completing the specialization equivalent to the preliminary exam and successfully defending a dissertation.

### Designated Specialization

Students indicate a specific area of specialization by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements.

(Please see the accompanying explanation and requirements for each specialization.)

### Residency

Residence requirements cannot be met at the master's level, and must be fulfilled before you can achieve dissertator status. There are two types of doctoral residency that must be met:

#### Academic Year Requirement

You must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. This requirement is intended to provide immersion in the chosen discipline and foster participation in the community of scholars.

#### 50% Requirement

At least 50% of the graduate credits required for your PhD program must be completed at UWM in doctoral status.

#### Art Education Specialization

Students wishing to specialize in Art Education must first be admitted to the Urban Education Doctoral Program (UEDP). Applications will be reviewed by the UEDP Admissions Committee as well as the Art Education graduate faculty in the Department of Art and Design within the Peck School of the Arts.

#### Specialization Requirements

1. The student must meet all Urban Education Doctoral Program requirements.
2. The student must submit a program for concentration in Art Education, developed in conjunction with the student's advisor. The program of study must be reviewed and approved by the Art Education graduate faculty and the UEDP director.
3. Students not having the equivalent of a master of arts, master of science, or master of fine arts degree in art education, or related field recognized by the Department of Art and Design may be required to take appropriate coursework as a prerequisite to the doctoral specialization in Art Education.
4. Students will be required to pass a preliminary examination by demonstrating competence in urban education, research methods, the specialization in Art Education, and their additional area of study.
5. A dissertation will be required in the specialization area of Art Education. The dissertation advisor must be an approved doctoral advisor or major professor who is a member of the specialization faculty.

For a specialization in Art Education, coursework must be completed in four areas:

1. Urban education
2. Research
3. Art education
4. An additional area of study

At least 27 credits must be completed in doctoral status at UWM, not including dissertation credits.

Code	Title	Credits
<b>Urban Course Seminar Requirements</b>		
EDUC 701	Critical Issues in Urban Education	9

ART ED 801	Seminar in Urban Education and the Visual Arts	
EDUC 901	Advanced Seminar in Urban Education	
<b>Research Methods Course Requirements</b>		<b>16</b>
ED PSY 624	Educational Statistical Methods I	
ED PSY 724	Educational Statistical Methods II	
AD LDSP/CURRINS 729	Qualitative Research and Field Studies in Education Settings	
Select at least 6 credits (700-level or above) from either a quantitative track or a qualitative track <sup>1</sup>		
<b>Major Concentration Course Requirements</b>		<b>9</b>
ART ED 810	Curricular Designs for Art Instruction	
ART ED 830	Teaching Art With Works of Art	
Select 6 credits in Art Education courses (700-level or above)		6
Select 9 credits in a specific area <sup>2</sup>		9
Select at least 6 credits in one department outside the Department of Art and Design and the School of Education that enables the research endeavor		6
<b>Total Credits</b>		<b>55</b>

<sup>1</sup> Students should work with the major professor to determine the appropriate advanced level courses.

<sup>2</sup> Select 9 credits in a specific area such as:

- Content Area (studio practices, art history, aesthetics, art criticism, cultural foundations, research methods).
- Education level (early childhood, elementary, secondary, higher education, adult).
- Social Contexts (museums, community studies, preK-12, gifted and talented, global studies, interdisciplinary practices).
- Curricular Issues (assessment and evaluation, digital and electronic media and instruction, curriculum studies).

## Additional Requirements

### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from his or her intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from his/her specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

### Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

### Residence

The residency requirement is satisfied through the successful completion of 9 or more credits in each of two consecutive semesters, excluding

summer, or by completing at least 6 graduate credits in each of three consecutive semesters, excluding summer.

It is the student's responsibility to notify the Office of Doctoral Studies when residency requirements have been met. Such notification must be in writing and must include the semesters, year(s) and number of credits taken during each of the applicable semesters.

### Doctoral Committee Membership

Three graduate faculty from the Department of Art and Design, at least two of which must be from the Art Education area (including the major professor).

### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

### Dissertation

The candidate must present a dissertation reporting the results of an original research study appropriate to the student's program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

### Time Limit

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

### Other Requirements

This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (<http://www.dev.uwm.edu/graduateschool/doctoral-requirements/>)

### Exit Requirements

Contingent upon the satisfactory completion of program requirements, the preliminary qualifying examination, and the successful oral defense of the dissertation, the Urban Education Doctoral Committee chair will give final approval for the specialization inclusion on transcripts.

## Urban Education, PhD: Curriculum and Instruction

### Specialization Overview

The specialization in Curriculum and Instruction (C&I) gives students an opportunity to improve professional experiences with the students they teach, the educational contexts in which they work, and their disciplinary and content knowledge. The Curriculum and Instruction specialization combines theoretical and disciplinary content knowledge, practical experiences and scholarly activities.

The program prepares education professionals to work in such varied settings as schools, colleges and universities, school district central

offices, government agencies, community organizations and private consulting. Graduates of the program are prepared for leadership roles as curriculum directors, instructional coordinators, school partnership coordinators, applied researchers, professional development coordinators and professors.

For course descriptions in this area, visit the Curriculum and Instruction courses (p. 1674).

## Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (p. 355). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

## Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission. Applicants must also complete the reason statement in the application.

### Graduate Record Examination

GRE scores are not required for admission to program.

### Grade Point Average

Applicants must have an undergraduate GPA of 2.75.

Check with specializations that might have additional requirements.

### Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from **one** of the following options:

1. Master's Thesis
2. Undergraduate Senior Thesis
3. Technical Report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. Writing sample or written response showing evidence of analytical and argumentative writing and reasoning. The response should address the following: How would you conceptualize and analyze issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

### Reasons Statement

A Reasons Statement is used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. In the statement:

- Explain your reasons for pursuing graduate study.
- Describe specific interests and your background in the field.
- List any relevant skills or training you have acquired.
- List relevant academic awards or honors you have received.



### Curriculum Vitae/Resume

All UEDP applicants are required to submit a current Curriculum Vitae/Resume.

### Recommendations

The program requires 3 letters of recommendation. These letters must be submitted through the application’s electronic recommendation feature by the recommenders themselves. Letters uploaded or sent by the applicant will not be accepted. If possible, please provide your recommenders with a summary of your application materials. Feel free to encourage your recommenders to provide illustrations linking your experiences and abilities with the aims of the doctoral specialization.

### Application

Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited.

Students should apply by December 1st of the year prior to entry, or earlier, if they plan to apply for University-wide fellowships. Applications completed after the priority deadline will be reviewed on a rolling basis up until April 1st for Fall admission of that calendar year.

**Application materials MUST be submitted by April 1st in order to be admitted for the fall semester.**

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

### The Doctoral Seminars

All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment.

Code	Title	Credits
EDUC 701	Critical Issues in Urban Education	3
EDUC 801	Seminar in Urban Education	3
EDUC 901	Advanced Seminar in Urban Education	3

## Research Requirement

Department specialization requirements may exceed those specified here.

Code	Title	Credits
Choose one:		
ED PSY 724	Educational Statistical Methods II (prerequisite is ED PSY 624)	3-4
ED PSY 728	Techniques of Educational Research (prerequisite is ED PSY 624)	
CURRINS/AD LDSP 729	Qualitative Research and Field Studies in Educational Settings	3
Additional advanced-level (600 or above) coursework from either a qualitative track or quantitative track		6
Approved research design course		3
<b>Total Credits</b>		<b>15-16</b>

All students must demonstrate knowledge in this area by completing the specialization equivalent to the preliminary exam and successfully defending a dissertation.

## Designated Specialization

Students indicate a specific area of specialization by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

## Residency

Residence requirements cannot be met at the master’s level, and must be fulfilled before you can achieve dissertator status. There are two types of doctoral residency that must be met:

### Academic Year Requirement

You must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. This requirement is intended to provide immersion in the chosen discipline and foster participation in the community of scholars.

### 50% Requirement

At least 50% of the graduate credits required for your PhD program must be completed at UWM in doctoral status.

## Curriculum and Instruction Specialization

1. Students wishing to specialize in Curriculum and Instruction must first be admitted to the Urban Education Doctoral Program (UEDP).
2. Subsequent to UEDP admission, the student must submit to the Curriculum and Instruction Graduate Committee a program for concentration in Curriculum and Instruction developed in conjunction with the student’s advisor.

The student must meet all of the program requirements of the Urban Education Doctoral Program.

Specialization in Curriculum and Instruction consists of a minimum of 24 credits, 18 of which must be taken in Curriculum and Instruction. No

more than 6 credits taken prior to admission to the PhD program may be counted toward the specialty. The credits are to be distributed as follows:

Code	Title	Credits
<b>General Curriculum and Instruction</b>		
CURRINS 813	Instructional Research and Theory	3
CURRINS 816	Curriculum Designs for Urban Schools	3
CURRINS 819	Theory and Design of Curriculum	3
<b>Curriculum and Instruction Area of Interest</b>		
Select a minimum of 15 credits in the following:		15
Content area: (e.g., reading)		
Education level area (e.g., early childhood)		
General area: (e.g., curriculum theory)		
Special area: (e.g., guiding instructional improvement)		
<b>Total Credits</b>		<b>24</b>

The UEDP doctoral preliminary examination includes a section covering the student's Curriculum and Instruction specialization.

A dissertation with a Curriculum and Instruction emphasis is required. The dissertation advisor must be an UEDP doctoral advisor and a member of the Department of Teaching and Learning. At least two other committee members must be from Curriculum and Instruction.

## Additional Requirements

### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from their intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from their specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

### Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

### Dissertation

The candidate must present a dissertation reporting the results of an original research study appropriate to the student's program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

## Time Limit

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

## Other Requirements

This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (<http://www.dev.uwm.edu/graduateschool/doctoral-requirements/>).

## Exit Requirements

Contingent upon completion of program requirements, the doctoral preliminary examination, and the successful defense of the dissertation, the Chair of the Department of Teaching and Learning will give final approval for the inclusion of "Urban Education: Curriculum and Instruction" on the student's transcript.

# Urban Education, PhD: Educational Administration

## Specialization Overview

The specialization in Educational Administration focuses on the development of educational leaders, particularly for service in urban metropolitan areas. Individuals trained in this program can provide excellence in leadership by nurturing leadership among others in the school community, creating a positive work environment for students, staff, and parents, and lastly contribute to the quality of teaching and learning in the district and within its schools. The curriculum draws from a variety of sources including current research and literature, national and state professional association standards, federal and state governmental guidelines, and the field of practice.

For course descriptions in this area, visit the Administrative Leadership courses (p. 1405).

## Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership

issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (p. 355). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

## Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission. Applicants must also complete the reason statement in the application.

### Graduate Record Examination

GRE scores are not required for admission to program.

### Grade Point Average

Applicants must have an undergraduate GPA of 2.75.

Check with specializations that might have additional requirements.

## Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from **one** of the following options:

1. Master's Thesis
2. Undergraduate Senior Thesis
3. Technical Report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. Writing sample or written response showing evidence of analytical and argumentative writing and reasoning. The response should address the following: How would you conceptualize and analyze issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

## Reasons Statement

A Reasons Statement is used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. In the statement:

- Explain your reasons for pursuing graduate study.
- Describe specific interests and your background in the field.
- List any relevant skills or training you have acquired.
- List relevant academic awards or honors you have received.

## Curriculum Vitae/Resume

All UEDP applicants are required to submit a current Curriculum Vitae/Resume.

## Recommendations

The program requires 3 letters of recommendation. These letters must be submitted through the application's electronic recommendation feature by the recommenders themselves. Letters uploaded or sent by the applicant will not be accepted. If possible, please provide your recommenders with a summary of your application materials. Feel free to encourage your recommenders to provide illustrations linking your experiences and abilities with the aims of the doctoral specialization.

## Application

Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited.

Students should apply by December 1st of the year prior to entry, or earlier, if they plan to apply for University-wide fellowships. Applications completed after the priority deadline will be reviewed on a rolling basis up until April 1st for Fall admission of that calendar year.

**Application materials MUST be submitted by April 1st in order to be admitted for the fall semester.**

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

### The Doctoral Seminars

All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment.

Code	Title	Credits
EDUC 701	Critical Issues in Urban Education	3
EDUC 801	Seminar in Urban Education	3
EDUC 901	Advanced Seminar in Urban Education	3

### Research Requirement

Department specialization requirements may exceed those specified here.

Code	Title	Credits
Choose one:		3-4
ED PSY 724	Educational Statistical Methods II (prerequisite is ED PSY 624)	
ED PSY 728	Techniques of Educational Research (prerequisite is ED PSY 624)	
CURRINS/AD LDSP 729	Qualitative Research and Field Studies in Educational Settings	3
Additional advanced-level (600 or above) coursework from either a qualitative track or quantitative track		6
Approved research design course		3
<b>Total Credits</b>		<b>15-16</b>

All students must demonstrate knowledge in this area by completing the specialization equivalent to the preliminary exam and successfully defending a dissertation.

### Designated Specialization

Students indicate a specific area of specialization by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

## Residency

Residence requirements cannot be met at the master’s level, and must be fulfilled before you can achieve dissertator status. There are two types of doctoral residency that must be met:

### Academic Year Requirement

You must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. This requirement is intended to provide immersion in the chosen discipline and foster participation in the community of scholars.

### 50% Requirement

At least 50% of the graduate credits required for your PhD program must be completed at UWM in doctoral status.

## Educational Administration Specialization

Subsequent to UEDP admission, the student must submit a program for concentration in Educational Administration, developed in conjunction with the student’s advisor and committee, to the chair of the department of Administrative Leadership.

The student must meet all of the program requirements of the Urban Education Doctoral Program. The specialization in Educational Administration consists of a minimum of 30 graduate credits excluding dissertation credits.

The credits are to be distributed as follows:

### PhD Non-Certification Orientation

Code	Title	Credits
<b>Required Courses</b>		
AD LDSP 801	Urban Education: Doctoral Seminar	3
AD LDSP 832	Educational Politics and Policymaking	3
AD LDSP 842	Program Planning and Evaluation in Education	3
AD LDSP 862	School Finance	3
<b>Electives in Administrative Leadership (700+)</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### PhD District Administrator/Superintendent Certification Orientation

Code	Title	Credits
<b>Required</b>		
AD LDSP 801	Urban Education: Doctoral Seminar	3
AD LDSP 802	District Leadership for Learning	3
AD LDSP 812	Educational Personnel Administration and Supervision	3
AD LDSP 832	Educational Politics and Policymaking	3
AD LDSP 842	Program Planning and Evaluation in Education	3
AD LDSP 862	School Finance	3
AD LDSP 882	Practicum in the School Superintendency	3
<b>Electives in Administrative Leadership (700+)</b>		<b>9</b>
<b>Total Credits</b>		<b>30</b>

Although a Master’s Degree and certification as a principal are prerequisites to certification as a School Superintendent in Wisconsin, doctoral students may satisfy the requirements for both licenses within

their PhD Program of Study. Advisors will design such programs based on individual student need.

Any post-master's courses taken prior to admission while enrolled as a non-degree student in the Specialist Program for School Superintendent Certification do not have to be repeated, subject to advisor and UEDC Director approval. All such credits may be applied toward the 30 credits required in the area of concentration except that in no case may a PhD area of concentration contain fewer than 9 upper level graduate credits (excluding dissertation credits) taken after admission to doctoral study. Individuals who have not completed at least 6 credits of accepted graduate coursework within the 5 years immediately prior to admission must take a minimum of 15 credits.

## Additional Requirements

### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from their intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from their specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

### Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

### Doctoral Committee Membership

The dissertation advisor is an Urban Education doctoral advisor and member of the Department of Administrative Leadership. At least two other committee members must be from the Department of Administrative Leadership.

### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

### Dissertation

The candidate must present a dissertation reporting the results of an original research study appropriate to the student's program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

### Time Limit

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

## Other Requirements

This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (<http://www.dev.uwm.edu/graduateschool/doctoral-requirements/>).

## Exit Requirements

Contingent upon successful completion of program requirements, the doctoral preliminary examination, and the dissertation defense, the Chair of the Department of Administrative Leadership must give final approval for the inclusion of "Urban Education: Educational Administration" on the student's transcript.

## Urban Education, PhD: Exceptional Education

### Specialization Overview

The doctoral specialization in Exceptional Education provides a program of advanced study of special education. The program emphasizes the study the socio-cultural context, educational policy, research-based practices and systems change and reform. Students in Exceptional Education take advanced coursework in special education and choose to focus on related areas such as administration, research, teacher education, curriculum design and development, and community-based supports and partnerships. In addition, students declare a minor area of interest.

Students work with their major professor to develop an individualized program which incorporates breadth as well as depth of study.

For course descriptions in this area, visit the Exceptional Education section (p. 1783) of this catalog.

## Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood),

a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (p. 355). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

## Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission. Applicants must also complete the reason statement in the application.

### Graduate Record Examination

GRE scores are not required for admission to program.

### Grade Point Average

Applicants must have an undergraduate GPA of 2.75.

Check with specializations that might have additional requirements.

### Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from **one** of the following options:

1. Master's Thesis
2. Undergraduate Senior Thesis
3. Technical Report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. Writing sample or written response showing evidence of analytical and argumentative writing and reasoning. The response should address the following: How would you conceptualize and analyze issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

### Reasons Statement

A Reasons Statement is used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. In the statement:

- Explain your reasons for pursuing graduate study.
- Describe specific interests and your background in the field.
- List any relevant skills or training you have acquired.
- List relevant academic awards or honors you have received.

### Curriculum Vitae/Resume

All UEDP applicants are required to submit a current Curriculum Vitae/Resume.

### Recommendations

The program requires 3 letters of recommendation. These letters must be submitted through the application's electronic recommendation feature by the recommenders themselves. Letters uploaded or sent by the applicant will not be accepted. If possible, please provide your recommenders with a summary of your application materials. Feel free to encourage your recommenders to provide illustrations linking your experiences and abilities with the aims of the doctoral specialization.

### Application

Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited.

Students should apply by December 1st of the year prior to entry, or earlier, if they plan to apply for University-wide fellowships. Applications completed after the priority deadline will be reviewed on a rolling basis up until April 1st for Fall admission of that calendar year.

***Application materials MUST be submitted by April 1st in order to be admitted for the fall semester.***

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student’s goals.

The program of studies includes the following:

### The Doctoral Seminars

All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment.

Code	Title	Credits
EDUC 701	Critical Issues in Urban Education	3
EDUC 801	Seminar in Urban Education	3
EDUC 901	Advanced Seminar in Urban Education	3

### Research Requirement

Department specialization requirements may exceed those specified here.

Code	Title	Credits
Choose one:		3-4
ED PSY 724	Educational Statistical Methods II (prerequisite is ED PSY 624)	
ED PSY 728	Techniques of Educational Research (prerequisite is ED PSY 624)	
CURRINS/AD LDSP 729	Qualitative Research and Field Studies in Educational Settings	3
Additional advanced-level (600 or above) coursework from either a qualitative track or quantitative track		6
Approved research design course		3
<b>Total Credits</b>		<b>15-16</b>

All students must demonstrate knowledge in this area by completing the specialization equivalent to the preliminary exam and successfully defending a dissertation.

### Designated Specialization

Students indicate a specific area of specialization by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

### Residency

Residence requirements cannot be met at the master’s level, and must be fulfilled before you can achieve dissertator status. There are two types of doctoral residency that must be met:

#### Academic Year Requirement

You must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. This requirement is intended to provide immersion in the chosen discipline and foster participation in the community of scholars.

#### 50% Requirement

At least 50% of the graduate credits required for your PhD program must be completed at UWM in doctoral status.

### Exceptional Education Specialization

Subsequent to UEDP admission, the student must submit credentials and a program for concentration in Exceptional Education developed in conjunction with the student’s advisor in the Department of Exceptional Education. Students also must prepare a statement expressing their interests within Exceptional Education for the departmental admissions procedure.

The doctoral specialization in Exceptional Education provides a program of advanced study of special education. The program emphasizes the socio-cultural context, educational policy, research-based practices and systems change and reform. Students in Exceptional Education take advanced coursework in special education and choose to focus on related areas such as administration, research, teacher education, curriculum design and development, and community-based supports and partnerships. In addition, students declare a minor area of interest.

Students work with their major professor to develop an individualized program which incorporates breadth as well as depth of study. Building on faculty expertise and research interests, focus areas for study may include:

- Teacher education
- Cultural diversity in education
- Early childhood intervention
- Assistive technology
- Curriculum accommodation & collaboration
- Literacy
- Transition to young adulthood
- Deaf education
- School reform and special education administration

In addition to advanced coursework, students participate in research and development projects, curriculum development, co-teaching, and other activities designed to prepare leaders for roles such as a college or university professor, curriculum leader, special education administrator, consultant, or project director.

The specialization requires a recent master’s degree in exceptional education or a related field (9 of these credits may be counted toward the specialization). If an applicant does not have this background, appropriate graduate coursework and field experiences will be outlined as a prerequisite to the doctoral specialization.

- A minimum of 12 credits in Exceptional Education (800-level or above) focusing on research and practice related to teacher

education, field-based practice and supervision, community programs and support for individuals with disabilities and special education research. Core courses are selected in consultation with doctoral advisor.

- A minimum of 12 credits additional electives in an Exceptional Education focus area. Up to 9 credits of recent and relevant master's degree coursework may be applied.
- The student must meet all of the program requirements of the Urban Education Doctoral Program, including:
  - Urban education Doctoral Seminars (9 credits)
  - Research Design and Methodology (13-16 credits)
  - Minor area of study (9 credits)

Additionally, students must complete preliminary examinations and a dissertation, original research with an emphasis in Exceptional Education.

## Additional Requirements

### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from their intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from their specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

### Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

### Dissertation

The candidate must present a dissertation reporting the results of an original research study appropriate to the student's program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

### Time Limit

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

### Other Requirements

This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies.

Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School [Doctoral Requirements](http://wwwdev.uwm.edu/graduateschool/doctoral-requirements/) (<http://wwwdev.uwm.edu/graduateschool/doctoral-requirements/>).

## Urban Education, PhD: Mathematics Education

### Specialization Overview

The specialization in Mathematics Education integrates mathematical knowledge for teaching within the broader field of urban education and prepares individuals to address critical issues across varied educational settings and contexts through research and scholarship in mathematics education.

For course descriptions in this area, visit the Curriculum and Instruction page (p. 1674) of this catalog.

### Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (p. 355). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.



All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

## Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission. Applicants must also complete the reason statement in the application.

### Graduate Record Examination

GRE scores are not required for admission to program.

### Grade Point Average

Applicants must have an undergraduate GPA of 2.75.

Check with specializations that might have additional requirements.

### Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from **one** of the following options:

1. Master's Thesis
2. Undergraduate Senior Thesis
3. Technical Report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. Writing sample or written response showing evidence of analytical and argumentative writing and reasoning. The response should address the following: How would you conceptualize and analyze issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

### Reasons Statement

A Reasons Statement is used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. In the statement:

- Explain your reasons for pursuing graduate study.
- Describe specific interests and your background in the field.
- List any relevant skills or training you have acquired.
- List relevant academic awards or honors you have received.

### Curriculum Vitae/Resume

All UEDP applicants are required to submit a current Curriculum Vitae/Resume.

### Recommendations

The program requires 3 letters of recommendation. These letters must be submitted through the application's electronic recommendation feature by the recommenders themselves. Letters uploaded or sent by the applicant will not be accepted. If possible, please provide your recommenders with a summary of your application materials. Feel free to encourage your recommenders to provide illustrations linking your experiences and abilities with the aims of the doctoral specialization.

### Application

Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited.

Students should apply by December 1st of the year prior to entry, or earlier, if they plan to apply for University-wide fellowships. Applications completed after the priority deadline will be reviewed on a rolling basis up until April 1st for Fall admission of that calendar year.

***Application materials MUST be submitted by April 1st in order to be admitted for the fall semester.***

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor's degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student's goals.

The program of studies includes the following:

## The Doctoral Seminars

All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment.

Code	Title	Credits
EDUC 701	Critical Issues in Urban Education	3
EDUC 801	Seminar in Urban Education	3
EDUC 901	Advanced Seminar in Urban Education	3

## Research Requirement

Department specialization requirements may exceed those specified here.

Code	Title	Credits
Choose one:		3-4
ED PSY 724	Educational Statistical Methods II (prerequisite is ED PSY 624)	
ED PSY 728	Techniques of Educational Research (prerequisite is ED PSY 624)	
CURRINS/AD LDSP 729	Qualitative Research and Field Studies in Educational Settings	3
Additional advanced-level (600 or above) coursework from either a qualitative track or quantitative track		6
Approved research design course		3
<b>Total Credits</b>		<b>15-16</b>

All students must demonstrate knowledge in this area by completing the specialization equivalent to the preliminary exam and successfully defending a dissertation.

## Designated Specialization

Students indicate a specific area of specialization by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

## Residency

Residence requirements cannot be met at the master's level, and must be fulfilled before you can achieve dissertator status. There are two types of doctoral residency that must be met:

### Academic Year Requirement

You must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. This requirement is intended to provide immersion in the chosen discipline and foster participation in the community of scholars.

### 50% Requirement

At least 50% of the graduate credits required for your PhD program must be completed at UWM in doctoral status.

## Mathematics Specialization

After admission to the Urban Education Doctoral Program (UEDP), the student must submit a Plan of Studies in Mathematics Education

developed in conjunction with the student's Major Professor for approval by the Director of the UEDP.

The student must meet all of the program requirements of the Urban Education Doctoral Program, including 9 credits of doctoral seminars and 12-13 credits of research methods.

The specialization in Mathematics Education consists of 9 required credits in advanced mathematics education and a minimum of 23 elective credits in mathematics education, related coursework, dissertator credits, or a minor. Relevant master's degree and other prior graduate coursework may be used to fulfill program requirements. At least 12 credits in mathematics education must be taken after admission to the program.

Code	Title	Credits
<b>Required</b>		
CURRINS 720	Curriculum and Standards for School Mathematics	3
CURRINS 861	Seminar in Mathematics Urban Education	3
CURRINS 864	Integrating Mathematics Education Research into Curriculum and Instruction	3

### Recommended Electives

CURRINS 624	Instructional Trajectories for Fraction Concepts and Operations	3
CURRINS 625	Principles and Practices of Teaching Geometry and Geometric Thinking	3
CURRINS 626	Principles and Practices of Teaching Algebraic Reasoning	3
CURRINS 730	Mathematics in Elementary Education	3
CURRINS 731	Mathematics in the Secondary School	3
CURRINS 761	Mathematics Instructional Leadership	3
CURRINS 830	Seminar in Elementary School Mathematics Education	3
CURRINS 865	Mathematics Program Design and Development	3

**Total Credits** **33**

## Additional Requirements

### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from their intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Plan of Studies, the student will seek a permanent major professor from their specialization who is eligible to serve in such a capacity. This permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

## Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

## Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor (if applicable), and research methods.

## Dissertation

The candidate must present a dissertation reporting the results of an original research study appropriate to the student's program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

## Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

## Time Limit

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

## Other Requirements

This is only a summary of the doctoral program requirements. A complete list of requirements is available from the Office of Doctoral Studies. Doctoral Committees may specify course requirements which exceed the minima described here.

For additional information on the PhD, see the Graduate School Doctoral Requirements (<http://wwwdev.uwm.edu/graduateschool/doctoral-requirements/>).

## Exit Requirements

Contingent upon satisfactory completion of program requirements, the preliminary qualifying examination, dissertation proposal hearing, and the successful oral defense of the dissertation, the Urban Education Doctoral Program Director will give final approval for the designated transcript inclusion of "Urban Education: Mathematics Education."

# Urban Education, PhD: Multicultural Studies

*Effective Fall 2023, the Multicultural Studies specialization has suspended admission.*

## Specialization Overview

Note that while Multicultural Studies is cross-disciplinary, for the purposes of initial advising and ongoing support the departmental home for a student in this specialization is Educational Policy and Community Studies. Students in this program will be supervised jointly by the Department of Educational Policy and Community Studies and by the Urban Education Doctoral Committee, who will assign an advisor for the particular focus area the student has chosen.

For course descriptions in this area, visit the Cultural Foundations of Education section (p. 351) of this catalog.

## Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (p. 355). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

## Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology

- Teaching and Learning
- Information Studies (School of)

## Admission Requirements

*Effective Fall 2023, the Multicultural Studies specialization has suspended admission.*

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission. Applicants must also complete the reason statement in the application.

### Graduate Record Examination

GRE scores are not required for admission to program.

### Grade Point Average

Applicants must have an undergraduate GPA of 2.75.

Check with specializations that might have additional requirements.

### Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from **one** of the following options:

1. Master's Thesis
2. Undergraduate Senior Thesis
3. Technical Report
4. Term Paper
5. Publication
6. Written Description of a Project
7. Action Research Project
8. Writing sample or written response showing evidence of analytical and argumentative writing and reasoning. The response should address the following: How would you conceptualize and analyze issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

### Reasons Statement

A Reasons Statement is used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. In the statement:

- Explain your reasons for pursuing graduate study.
- Describe specific interests and your background in the field.
- List any relevant skills or training you have acquired.
- List relevant academic awards or honors you have received.

### Curriculum Vitae/Resume

All UEDP applicants are required to submit a current Curriculum Vitae/Resume.

### Recommendations

The program requires 3 letters of recommendation. These letters must be submitted through the application's electronic recommendation feature by the recommenders themselves. Letters uploaded or sent by the applicant will not be accepted. If possible, please provide your recommenders with a summary of your application materials. Feel free to encourage your recommenders to provide illustrations linking your experiences and abilities with the aims of the doctoral specialization.

### Application

Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited.

Students should apply by December 1st of the year prior to entry, or earlier, if they plan to apply for University-wide fellowships. Applications completed after the priority deadline will be reviewed on a rolling basis up until April 1st for Fall admission of that calendar year.

***Application materials MUST be submitted by April 1st in order to be admitted for the fall semester.***

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor's degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

In consultation with the major professor, the student designs a program of studies that enables the student to gain the knowledge and skills appropriate to the student's goals.

The program of studies includes the following:

### The Doctoral Seminars

All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment.

Code	Title	Credits
EDUC 701	Critical Issues in Urban Education	3
EDUC 801	Seminar in Urban Education	3
EDUC 901	Advanced Seminar in Urban Education	3

### Research Requirement

Department specialization requirements may exceed those specified here.

Code	Title	Credits
Choose one:		
ED PSY 724	Educational Statistical Methods II (prerequisite is ED PSY 624)	3-4
ED PSY 728	Techniques of Educational Research (prerequisite is ED PSY 624)	
CURRINS/AD LDSP 729	Qualitative Research and Field Studies in Educational Settings	3
Additional advanced-level (600 or above) coursework from either a qualitative track or quantitative track		6
Approved research design course		3
<b>Total Credits</b>		<b>15-16</b>

All students must demonstrate knowledge in this area by completing the specialization equivalent to the preliminary exam and successfully defending a dissertation.

### Designated Specialization

Students indicate a specific area of specialization by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

### Residency

Residence requirements cannot be met at the master's level, and must be fulfilled before you can achieve dissertator status. There are two types of doctoral residency that must be met:

#### Academic Year Requirement

You must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. This requirement is intended to provide immersion in the chosen discipline and foster participation in the community of scholars.

#### 50% Requirement

At least 50% of the graduate credits required for your PhD program must be completed at UWM in doctoral status.

#### Multicultural Specialization

1. Students seeking admission to the doctoral program must indicate their intended area of specialization. The application will be reviewed by the Admissions Committee of the Urban Education Doctoral Program as well as the interdisciplinary graduate faculty of the Multicultural Studies Area.
2. Students must write a brief statement explaining why they feel an interdisciplinary program is more relevant to their studies than one of the other discipline-specific specializations.
3. Subsequent to admission, the student must submit a program of concentration in Multicultural Studies developed in conjunction with the student's advisor.
4. When the student's course of studies in Multicultural Studies is approved by the Multicultural Studies interdisciplinary faculty, the student must submit a program of study to the Office of the Doctoral Studies for review and approval by the Director.

5. Prior to admission, or within the first 30 graduate credits after admittance to the Multicultural Studies specialization, the student must complete a research project, e.g., thesis or publishable paper.

Code	Title	Credits
<b>Urban Seminar Requirements</b>		
EDUC 701	Critical Issues in Urban Education	3
EDUC 801	Seminar in Urban Education	3
EDUC 901	Advanced Seminar in Urban Education	3
<b>Major Concentration</b>		
ED POL 805	Sociology of Education: Seminar	3
ED POL 840	Seminar in Educational Theory	3
<b>Electives in Multicultural Specialization</b>		
Select 15 graduate credits <sup>1</sup>		15
<b>Research Design and Methodology</b>		
ED PSY 624	Educational Statistical Methods I (or equivalent statistical methods) <sup>2</sup>	3
ED PSY 724	Educational Statistical Methods II	4
CURRINS 729	Qualitative Research and Field Studies in Educational Settings	3
ED POL 837	Emergent Methods in Qualitative Research for Social Foundations	3
Select 3 elective credits		3
<b>Total Credits</b>		<b>46</b>

<sup>1</sup> Chosen under the guidance of advisor or committee chair. Six credits must be 800 level or above. Up to 6 relevant credits may be counted from student's master's program transcript, as determined by of a student's advisor. The SOE specialization includes a tailored professional area with multicultural studies.

<sup>2</sup> Students who meet this requirement upon admission will be asked to take another research methods class in consultation with student's academic advisor.

### Additional Requirements

Students must be admitted first to the PhD Program in Urban Education, then specialize in Multicultural Studies. The course requirements for Multicultural Studies are outlined below.

1. Students must meet all the requirements of the Urban Education Doctoral Program.
2. Students not having a graduate degree in a field recognized by the specialization faculty may be required to take master's level coursework as a prerequisite to admission

#### Recommended Conference Submissions/Participation

The specialization strongly recommends all students submit and present their original work at two academic conferences during the course of their studies. Conferences may be local, regional, national, or international in scope. Additionally, students are highly encouraged to contribute to papers submitted to peer-reviewed academic journals prior to graduation.

#### Other Requirements

All students must adhere to all other general requirements of the Urban Educational Doctoral Program pertaining to such issues as residency, preliminary examinations, dissertation proposals and defense, and time limits.

## Doctoral Preliminary Examination

The preliminary qualifying exam will include a section covering the student's focus area as developed with an advisor or committee chair.

## Dissertation

A dissertation with the appropriate area of emphasis is required. The dissertation committee must be composed of a minimum of four members of the graduate faculty. The dissertation advisor will be an approved doctoral advisor and a member of the School of Education. One other member must be from the School of Education, and one or two members must be from the student developed focus area.

## Exit Requirements

Contingent upon the satisfactory completion of program requirements, including the passing of the prelim/proposal defense, and the successful oral defense of the dissertation, the Urban Education Doctoral Committee Chair will give final approval for the inclusion of "Urban Education: Multicultural Foundations" on your transcript.

# Urban Education, PhD: Social Foundations of Education

*Effective Fall 2023, the Social Foundations of Education specialization has suspended admission.*

## Specialization Overview

The PhD specialization in Social Foundations of Education provides students with a comprehensive understanding of the social forces that affect urban schools and communities. This program is designed for individuals who want to look deeply at the challenges facing urban areas in the 21st Century and are willing to explore creative solutions. Students in Social Foundations examine the sociological, historical, philosophical, anthropological, and political dimensions of schools and community change. Social foundations doctoral students may investigate issues and contexts grounded in the core disciplines of the social sciences.

## Degree Overview

The School of Education offers an interdepartmental program of study leading to the PhD. Students must choose a specialization in either Adult, Continuing, and Higher Education Leadership, Art Education, Curriculum and Instruction, Educational Administration, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education.

The program is designed to permit students to integrate their particular curricular areas of interest and specialization with a broader field of education, including urban education. Each specialization, with the exception of Multicultural Studies, is departmentally focused, and students must satisfy the admissions and curriculum requirements indicated for their particular specialization. Recognition of the specialization is acknowledged by official designation on the student's transcript.

Each of the specializations offers the doctoral student an opportunity to pursue study in a specific program area. For example, Adult, Continuing, and Higher Education Leadership emphasizes governance and leadership issues within urban adult education organizations. Educational Administration explores governance and Leadership issues of urban schools. Curriculum and Instruction provides program emphasis in a content area (e.g., reading), education level (e.g., early childhood), a general area (e.g., curriculum theory) or special area (e.g., guiding

instructional improvement). Exceptional Education provides program emphasis in departmental interest areas (e.g., handicapping condition), or a cross-disciplinary interest.

A separate PhD with specialization in Counseling Psychology, Learning and Development, Research Methodology, and School Psychology is offered through the Department of Educational Psychology (p. 355). Multicultural Studies is a cross-department program allowing students to develop their own area of focus in collaboration with faculty in multicultural urban education. The Social Foundations of Education specialization provides students with the conceptual tools with which to examine the complex interrelationships between school and society, education and culture.

All graduates should have a broad understanding of the issues, problems and trends related to education, including urban education, and the application of these to their major.

The program requires each participant to develop research skills ranging from logic in inquiry to development of specific methodological skills in qualitative and quantitative methods. The PhD is a research degree and not only a professional preparation degree. Therefore research is an integral part of the program. Mastery of these skills is demonstrated through coursework, research projects and the dissertation. Graduates apply their skills, in institutions of higher education, public or private school settings, federal, state, or local governmental agencies, community organizations, and the private sector.

## Cooperating Departments

- Administrative Leadership
- Educational Policy and Community Studies
- Educational Psychology
- Teaching and Learning
- Information Studies (School of)

## Admission Requirements

*Effective Fall 2023, the Social Foundations of Education specialization has suspended admission.*

## Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission. Applicants must also complete the reason statement in the application.

## Graduate Record Examination

GRE scores are not required for admission to program.

## Grade Point Average

Applicants must have an undergraduate GPA of 2.75.

Check with specializations that might have additional requirements.

### Writing Sample

Applicants must submit a writing sample completed within the last five years. The writing sample must be single authored, at least 1500 words, and must be selected from **one** of the following options:

1. Master’s Thesis
2. Undergraduate Senior Thesis
3. Technical Report
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8. Writing sample or written response showing evidence of analytical and argumentative writing and reasoning. The response should address the following: How would you conceptualize and analyze issues in urban education? The response to this question must show evidence of appropriate references to a knowledge base.

The writing sample must be submitted with the application.

### Reasons Statement

A Reasons Statement is used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. In the statement:

- Explain your reasons for pursuing graduate study.
- Describe specific interests and your background in the field.
- List any relevant skills or training you have acquired.
- List relevant academic awards or honors you have received.

### Curriculum Vitae/Resume

All UEDP applicants are required to submit a current Curriculum Vitae/Resume.

### Recommendations

The program requires 3 letters of recommendation. These letters must be submitted through the application’s electronic recommendation feature by the recommenders themselves. Letters uploaded or sent by the applicant will not be accepted. If possible, please provide your recommenders with a summary of your application materials. Feel free to encourage your recommenders to provide illustrations linking your experiences and abilities with the aims of the doctoral specialization.

### Application

Applicants are required to articulate their urban and research interests and goals in application materials. An intended concentration within the PhD must be specified at time of application.

1. Applicants who fail to satisfy these admission requirements will not be recommended for admission. However, satisfying these minima does not guarantee admission.
2. Applicants who are not recommended for admission will be provided an opportunity to request a reconsideration.

Individual specializations may expect prior coursework in that area. Applicants may contact the Director for specific information. Openings in the program are limited.

Students should apply by December 1st of the year prior to entry, or earlier, if they plan to apply for University-wide fellowships. Applications completed after the priority deadline will be reviewed on a rolling basis up until April 1st for Fall admission of that calendar year.

**Application materials MUST be submitted by April 1st in order to be admitted for the fall semester.**

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor’s degree (although students ordinarily take more than 54), at least 27 of which must be earned in residence at UWM (i.e., on the UWM campus).

A minimum grade of B or better is required for all courses counting toward the Urban Education doctoral degree. Students earning a B- or lower must consult with their advisor to fulfill the requirement within one semester.

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The program of studies includes the following:

### The Doctoral Seminars

All doctoral students must take three 3-credit seminar courses devoted to content involving education in an urban environment.

Code	Title	Credits
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EDUC 801	Seminar in Urban Education	3
EDUC 901	Advanced Seminar in Urban Education	3

### Research Requirement

Department specialization requirements may exceed those specified here.

Code	Title	Credits
Choose one:		3-4
ED PSY 724	Educational Statistical Methods II (prerequisite is ED PSY 624)	
ED PSY 728	Techniques of Educational Research (prerequisite is ED PSY 624)	
CURRINS/AD LDSP 729	Qualitative Research and Field Studies in Educational Settings	3
Additional advanced-level (600 or above) coursework from either a qualitative track or quantitative track		6
Approved research design course		3
<b>Total Credits</b>		<b>15-16</b>

All students must demonstrate knowledge in this area by completing the specialization equivalent to the preliminary exam and successfully defending a dissertation.

### Designated Specialization

Students indicate a specific area of specialization by applying for one of the transcript-designated specializations in either Adult, Continuing, and Higher Education Leadership, Curriculum and Instruction, Exceptional Education, Mathematics Education, Multicultural Studies, or Social Foundations of Education. Students may be required to meet the specific admissions and program requirements for their intended specialization in addition to meeting the PhD admissions and program requirements. (Please see the accompanying explanation and requirements for each specialization.)

## Residency

Residence requirements cannot be met at the master's level, and must be fulfilled before you can achieve dissertator status. There are two types of doctoral residency that must be met:

### Academic Year Requirement

You must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. This requirement is intended to provide immersion in the chosen discipline and foster participation in the community of scholars.

### 50% Requirement

At least 50% of the graduate credits required for your PhD program must be completed at UWM in doctoral status.

## Social Foundations of Education Specialization

1. Students wishing to be admitted to the Urban Education Doctoral Program must indicate their intended area of specialization. Their applications will be reviewed by the Admissions committee of the Urban Education Doctoral Program as well as by the Department of Educational Policy and Community Studies. The general requirements maintained by the Graduate School at UWM will apply to these candidates;
2. Subsequent to admission, the student must submit a program for study for a specialization in Social Foundations of Education, developed in conjunction with the student's advisor and committee;
3. If the student's specialization in Social Foundations of Education is approved, the student must submit their program of study to the Office of Doctoral Studies for review and approval by the director;
4. Students who have already had their programs approved prior to their decision to seek specialization in Social Foundations of Education must submit a program for concentration in Social Foundations of Education to the Departmental Graduate Committee for approval, and if changes are made, must seek approval of the new program of studies by the Office of Doctoral Studies.

Code	Title	Credits
<b>Urban Educational Doctoral Program General Requirements</b>		
EDUC 701	Critical Issues in Urban Education	3
EDUC 801	Seminar in Urban Education	3
EDUC 901	Advanced Seminar in Urban Education	3
<b>Research Methods</b>		
ED PSY 624	Educational Statistical Methods I (or equivalent methods course) <sup>1</sup>	3
ED PSY 724	Educational Statistical Methods II	4
CURRINS 729	Qualitative Research and Field Studies in Educational Settings	3
ED POL 837	Emergent Methods in Qualitative Research for Social Foundations	3
<b>Advanced Research Course (Choose from Advanced Research list below)</b>		<b>3</b>
<b>Specialization Requirements</b>		
ED POL 805	Sociology of Education: Seminar <sup>2</sup>	3
ED POL 822	Global Educational Studies	3
ED POL 840	Seminar in Educational Theory	3
ED POL 850	Seminar in History of American Education <sup>2</sup>	3

<b>Electives in Specialization (Choose from Electives list below)</b>	<b>9</b>
<b>Total Credits</b>	<b>46</b>

<sup>1</sup> Students who meet this requirement will be asked to take another research methods class in consultation with student's academic advisor.

<sup>2</sup> If a student has taken these courses in a master's program, comparable 800-level coursework will be selected in conjunction with the student's academic advisor.

Students with a Cultural Foundations of Education Master of Science degree may transfer 9 credits numbered 609 or above in which they earned an A- or better. Students with other master's degrees will be evaluated individually by the department to determine up to 9 credits that may be suitable to transfer as major elective courses. All courses selected must include research papers and be approved by the student's academic advisor.

## Advanced Research

Code	Title	Credits
<b>Historical/Cultural Research</b>		
<i>Anthropology</i>		
ANTHRO 705	Advanced Topics in Ethnography:	3
ANTHRO 768	Topics in Advanced Research Design in Anthropology	3
<i>History</i>		
HIST 712	Historiography and Theory of History	3
HIST 713	Historical Research Methods	3
<i>Philosophy</i>		
PHILOS 903	Seminar in Epistemology:	3
PHILOS 911	Seminar in Logic:	3
PHILOS 960	Seminar in Metaphysics:	3
<i>Political Science</i>		
POL SCI 700	Scope and Methods of Political Science	3
POL SCI 701	Techniques of Political Science Research	3
POL SCI 702	Advanced Techniques of Political Science Research	3
<i>Social Work</i>		
SOC WRK 793	Evaluation of Practice	2
SOC WRK 794	Evaluation of Programs	2
<i>Urban Studies</i>		
URB STD 921	Seminar: Research Methods in Urban Studies	3
URB STD 979	Qualitative Research Methods	3
URB STD 982	Advanced Quantitative Analysis	3
<b>Qualitative Research</b>		
CURRINS 829	Advanced Qualitative Research Techniques for Education Settings	3
CURRINS 839	Practicum in Writing from Qualitative Research for Educational Settings	3
<b>Quantitative Research</b>		
ED PSY 821	Psychometric Theory and Practice	3
ED PSY 822	Item Response Theory	3
ED PSY 823	Structural Equation Modeling	3



ED PSY 824	Advanced Experimental Design and Analysis	3
ED PSY 825	Multivariate Methods	3
ED PSY 826	Analysis of Cross-Classified Categorical Data	3
ED PSY 827	Survey Research Methods	3
ED PSY 829	Instrument Development	3
ED PSY 922	Seminar in Measurement and Evaluation:	3
ED PSY 929	Seminar in Statistics and Research Design	3

## Electives

*Options include, but are not limited to:*

Code	Title	Credits
ED POL 609	Community Partnerships	3
ED POL 610	Reproduction of Minoritized Communities	3
ED POL 611	Community Policies and Urban Minority Youths	3
ED POL 613	Context and Foundations of Educational Policy	3
ED POL 620	History of the Education of African Americans	3
ED POL 624	Gender and Education	3
ED POL 625	Race Relations in Education	3
ED POL 630	Race, Ethnicity, and Public Policy in Urban America	3
ED POL 633	Community Development: History, Structure, Process-Empowering Communities	3
ED POL 636	Issues in African American Education	3
ED POL 639	Milwaukee Black Community	3
ED POL 640	The Rise and Fall of America's Southern Civil Rights Movement	3
ED POL 650	The Civil Rights Movement in Northern Cities	3
ED POL 705	Sociology of Education and Community Engagement	3
ED POL 721	Data Analysis for Educational Policy & Community Engagement	3
ED POL 725		3
ED POL 823	Multicultural Education	3
ED POL 850	Seminar in History of American Education	3

## Additional Requirements

### Major Professor

Upon admission to the doctoral program, the student is assigned an initial advisor from their intended specialization. This person is available to discuss initial course selection and provide general advice about the program and specialization. After beginning the program and before filing a Program of Studies, the student will seek a permanent major professor from their specialization who is eligible to serve in such a capacity. This

permanent advisor may be the initial advisor if the student desires. The major professor is also chair of the student's dissertation committee.

Selection of the major professor is by mutual consent between the student and the faculty member. The student must notify the UEDP in writing when the major professor has been selected.

### Foreign Language Requirement

There is no foreign language requirement. However, individual students may be required to demonstrate proficiency in a foreign language if such proficiency is determined to be necessary by a student's committee.

### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The examination covers the area of specialization, urban education, the minor, and research methods.

### Dissertation

The candidate must present a dissertation reporting the results of an original research study appropriate to the student's program. Prior to beginning the research, the candidate must present an acceptable dissertation proposal and defend it at an oral hearing.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

### Time Limit

Students who do not complete all degree requirements within seven years from the date of admission to the doctoral program will be recommended for dismissal to the Graduate School.

### Contribution to Scholarship

The department strongly recommends all students submit and present their original work at two academic conferences during the course of their studies. Conferences may be local, regional, national, or international in scope. Additionally, students are highly encouraged to contribute to papers submitted to peer-reviewed academic journals prior to graduation.

### Optional Minor (9-12 credits)

Students may also choose to complete a minor outside the School of Education in an academic department, as negotiated with the student's academic advisor. While not required, the optional minor, comprised of 9-12 credits in addition to the major requirements of the program, may provide students with another academic area of expertise (e.g., sociology, philosophy, history, etc.)

### Other Requirements

All students must adhere to all other general requirements of the Urban Educational Doctoral Program pertaining to such issues as residency, preliminary examinations, dissertation proposals and defense, and time limits.

The preliminary qualifying exam will include a section covering the student's Social Foundations of Education specialization.

A dissertation with the appropriate area of emphasis is required. The dissertation committee must be composed of a minimum of five members of the graduate faculty. The dissertation advisor will be an approved doctoral advisor and a member of the Department of

Educational Policy and Community Studies. Two other members must be from the Department of Educational Policy and Community Studies, and one member must be from the minor area.

## Exit Requirements

Contingent upon completion of program requirements, the preliminary qualifying examination, and the successful defense of the dissertation, the chair of the Department of Educational Policy and Community Studies must give final approval for the inclusion of Social Foundations of Education upon the student's transcript.

## Information Studies (School of)

The School of Information Studies (SOIS) degree programs prepare students for careers in the Information Technology and Library professions. Our academic programs are designed to meet the challenges of the digital world and an ever-expanding information landscape. SOIS graduates are prepared for careers across the spectrum of information, data, and technology.

## Bachelor of Science in Information Science & Technology (BSIST)

The Bachelor of Science in Information Science and Technology (BSIST) combines core IT skills like front-end web design, programming and project management, with electives that you choose. The only degree of its kind in the UW System, the BSIST degree will set you apart from the competition.

## Bachelor of Science in Data Analytics

The Bachelor of Science in Data Analytics is a special degree program that includes courses from the College of Letters and Science, the School of Information Studies, and other UWM colleges to provide a solid general education as well as an interdisciplinary approach to data analytics. The BS in Data Analytics at UWM is unique because its goal is to train students to practice data analytics in a field they are most passionate about. Students take foundational classes to build core data analytics skills, then specialize in data analytics for business, health, information science, natural sciences, social sciences, or geographic information sciences.

## Master of Library and Information Science (MLIS)

The Master of Library & Information Science (MLIS) program, accredited by the American Library Association since 1976, prepares librarians and information professionals to manage change in an urbanized, technologically oriented and knowledge-based society. Its systematic course of study enables individuals with a strong service orientation to apply principles of library and information science, to use current methods and tools, and to recognize the value of research.

## Master of Science in Information Science & Technology (MSIST)

The Master of Science in Information Science and Technology (MSIST) is a professional graduate degree program for those who seek advanced training to meet the ever-increasing need for information technology (IT) professionals. The MSIST will provide essential skills and knowledge in the following areas:

- **Data science:** Provides students with advanced knowledge and skills to manage data sets generated by applications.
- **Information security:** Focuses on techniques ensuring the security of all data captured, stored and analyzed through applications.

## Doctor of Philosophy in Information Studies (PhD)

The Doctor of Philosophy in Information Studies prepares graduates for academic and professional careers where an in-depth knowledge of research processes and evaluation is needed. The program emphasizes the study of the representation, storage, retrieval, use, and impact of information resources on society. Graduates will contribute to the knowledge base of the discipline and will take on leadership roles as scholars and administrators in the discipline and the profession.

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For information on SOIS's degree programs please see the SOIS website (<https://uwm.edu/informationstudies/>).

## Undergraduate

- Cybersecurity, Undergraduate Certificate (p. 478)
- Data Analytics, BS (School of Information Studies) (p. 479)
- Information Science and Technology, BS (p. 484)
- Information Science and Technology, Minor (p. 487)
- School Librarianship, Undergraduate Certificate (p. 520)

## Graduate

- Information Science and Technology, MS (p. 487)
- Information Science and Technology, MS/Library and Information Science, MLIS (p. 489)
- Library and Information Science, MLIS (p. 493)
- Library and Information Science, MLIS/Anthropology, MS (p. 496)
- Library and Information Science, MLIS/Art History, MA (p. 498)
- Library and Information Science, MLIS/English, MA (p. 499)
- Library and Information Science, MLIS/Geography, MA (p. 501)
- Library and Information Science, MLIS/Health Care Informatics, MS (p. 502)
- Library and Information Science, MLIS/History, MA (p. 503)
- Library and Information Science, MLIS/Language, Literature, and Translation, MA (p. 504)
- Library and Information Science, MLIS/Music, MM (p. 505)
- Library and Information Science, MLIS/Translation and Interpreting Studies, MA (p. 507)
- Library and Information Science, MLIS/Urban Studies, MS (p. 508)
- Library and Information Science, MLIS/Women's and Gender Studies, MA (p. 508)
- Library and Information Science, MLIS: Archival Studies (p. 509)
- Library and Information Science, MLIS: Information Organization (p. 512)
- Library and Information Science, MLIS: Information Technology (p. 514)
- Library and Information Science, MLIS: Public Library (p. 516)
- Library and Information Science, MLIS: School Librarianship (p. 518)

## Doctoral

- Information Studies, PhD (p. 491)

## Graduate Certificates

- Advanced Study in Archives and Records Administration, Graduate Certificate (p. 476)
- Cyber Crime Forensics, Graduate Certificate (School of Information Studies) (p. 477)
- Data Curation, Graduate Certificate (p. 482)
- Digital Libraries, Graduate Certificate (p. 483)
- Information Security, Graduate Certificate (p. 490)

## Requirements for Employment, Licensing, or Professional Organizations

Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records, prior to acceptance of a student by the placement site. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

## Administration

### Dean's Office

**Tina Freiburger**  
Interim Dean

**Dietmar Wolfram**

Senior Associate Dean & Professor

**Chad Zahrt**  
Assistant Dean (Student Affairs)

### Student Services

**Tobiah Deutsch**  
Senior Academic Advisor

**Maggie Flath**  
Senior Academic Advisor

**Angela Sadowsky**  
Senior Academic Advisor

**Julie Walker**  
Student/Alumni Engagement and Outreach Specialist

**Brian Williams**  
Senior Academic Advisor

### Administrative Services

**Rebecca Hall**  
Web Development & Marketing

**Allison Hecker**  
Communication Specialist

**Laura Meyer**  
Executive Assistant to the Deans

**Jessica Russell**  
Finance Manager

**Erica Yewlett**  
Senior HR Partner

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Mohammed Aman	Professor Emeritus	PhD	University of Pittsburgh		✓
Hyerin Bak	Teaching Faculty II	PhD	Florida State University		
Johannes Britz	Provost, Professor	DD, PhD	University of Pretoria, South Africa	✓	
Wonchan Choi	Assistant Professor	PhD	Florida State University	✓	
Julaine Clunis	Visiting Assistant Professor	PhD Candidate	Kent State University		
J. Dietenberger	Lecturer	MA	University of Wisconsin-Milwaukee		
Alexandra Dimitroff	Associate Professor Emerita	PhD			✓
Donald Force	Associate Professor	PhD	University of British Columbia	✓	
Matt Friedel	Senior Lecturer	MBA	Marquette University		
Maria Haigh	Associate Professor	PhD	Drexel University	✓	
Shaun Hayes	Archives Program Specialist	MLIS	University of Pittsburgh		
Susan Hersh	Senior Lecturer/School Library Media	MLIS	University of Wisconsin-Milwaukee		
Adam Hudson	Senior Lecturer/Director Nonprof-IT	MLIS	University of Wisconsin-Milwaukee		
Margaret Kipp	Associate Professor	PhD	University of Western Ontario	✓	
Nadine Kozak	Associate Professor	PhD	University of California-San Diego	✓	
Hur-li Lee	Associate Professor	PhD	Rutgers University	✓	✓

Wan-Chen Lee	Assistant Professor	PhD	University of Washington	✓	
Tomas Lipinski	Professor	PhD	University of Chicago	✓	
Steven J. Miller	Senior Lecturer Emeritus	MLIS			✓
Xiangming Mu	Associate Professor	PhD	University of North Carolina at Chapel Hill	✓	
Sarah Beth Nelson	Assistant Professor	PhD	University of North Carolina at Chapel Hill	✓	
Hope Olson	Professor Emerita	PhD			✓
Minsook Park	Assistant Professor	PhD	Florida State University	✓	
Wilhelm Peekhaus	Associate Professor	PhD	University of Western Ontario	✓	
Abigail Phillips	Assistant Professor	PhD	Florida State University	✓	
Jacques du Plessis	Associate Professor	PhD	Utah State University	✓	
Shana Poneis	Assistant Professor	PhD	University of Pretoria, South Africa	✓	
Khaled Sabha	Senior Lecturer	MS	University of Wisconsin-Milwaukee		
Betsy Schoeller	Senior Lecturer	PhD	University of Wisconsin-Milwaukee		
Judy Senkevitch	Associate Professor Emerita	PhD	Rutgers University		✓
Lyndsay Smanz	Senior Lecturer	MLIS	University of Wisconsin-Milwaukee		
Richard Smiraglia	Professor Emeritus	PhD	University of Chicago		✓
James Sweetland	Professor Emeritus				✓
Dietmar Wolfram	Head of School, Senior Associate Dean	PhD	University of Western Ontario	✓	
Hong (Iris) Xie	Professor	PhD	Rutgers University	✓	
Jin Zhang	Professor	PhD	University of Pittsburgh	✓	

## Contact Information

### SOIS Student Services

NWQB, 3rd Floor

<https://uwm.edu/informationstudies/>

# Advanced Study in Archives and Records Administration, Graduate Certificate

The Certificate of Advanced Study (CAS) in Archives and Records Administration is designed to help working professionals to update their knowledge in core areas of their responsibilities or to develop another specialty in a library-information area. It will enable students to either alter the direction of a career path or to enrich, update, and strengthen their skills and their knowledge of their field.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School

through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).

- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Admission

A Master of Library and Information Science degree or a master's degree in a closely related or allied field such as computer science, educational technology, or history with a minimum of a 3.0 grade point average is required for admission.

In addition to the Graduate School application materials, applicants must submit a one to two page reason statement outlining their background and their educational and professional goals.

## Credits and Courses

Students pursuing the Certificate of Advanced Study (CAS) must take 15 credits of INFOST designated coursework in consultation with the student's advisor. The courses that qualify for the CAS are as follows:

Code	Title	Credits
<b>Introduction Course</b>		
INFOST 650	An Introduction to Modern Archives Administration	3
<b>Foundation Courses</b>		
Minimum of 6 credits required		6

INFOST 750	Arrangement and Description in Archives	
INFOST 752	Archival Outreach: Programs and Services	
INFOST 753	Preserving Information Media	
INFOST 855	Advanced Appraisal	
<b>Elective Courses</b>		
Maximum of 6 credits to count toward the CAS		6
INFOST 640G	Information Literacy Instruction	
INFOST 655	Information and Records Management:	
INFOST 656	Electronic Documents and Records Management	
INFOST 682	Digital Libraries	
INFOST 691	Special Topics in Information Science:	
INFOST 714	Metadata	
INFOST 758	Technology Issues in Archives	
INFOST 759	Fieldwork in Archives and Manuscripts	
INFOST 850	Seminar in Modern Archives Administration	
INFOST 891	Advanced Topics in Library and Information Science:	
INFOST 999	Independent Research	
<i>Recommended (does not count towards CAS)</i>		
INFOST 603	History of Books and Printing	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No credits may be taken at an institution other than UWM.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Cyber Crime Forensics, Graduate Certificate (School of Information Studies)

The Department of Criminal Justice & Criminology offers a Certificate in Cyber Crime Forensics. The satisfactory completion of a sequence of courses will lead to a certificate in this growing area. Preparation includes a foundation in cyber crime theory, legal and policy issues of cyber crime, and digital forensic investigation.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The certificate will be available to all students who have already received a bachelor's degree from any accredited university. Graduate students enrolled in any program who successfully complete the requirements of their program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree will receive the certificate upon completion of the program requirements.

The Certificate in Cyber Crime will consist of 21 credits with the following courses (or equivalents) required:

Code	Title	Credits
CRM JST 421G	Cybercrime	3
CRM JST 422G	Cyber Crime, Law & Public Policy	3
INFOST 695G	Ethical Hacking I	3
INFOST 691G	Special Topics in Information Science: (Ethical Hacking II)	1-3
INFOST 691G	Special Topics in Information Science: (Computer Forensics)	1-3
Choose 2 from the following:		6
CRM JST 423G	Investigating the Dark Web	
CRM JST 424G	Sex Crimes, Human Trafficking, and the Internet	
CRM JST 480G	Criminal Evidence and Investigation	
INFOST 784	Information Security Management	
<b>Total Credits</b>		<b>21</b>

A minimum of 15 credits must be taken at UWM. For those with a degree in Criminal Justice, past course credits will be evaluated for equivalency and will be approved by the department chairperson.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Cybersecurity, Undergraduate Certificate

The security of information resources and associated technologies has become critical in today's interconnected world. Cybersecurity professionals ensure information is protected from data breaches, unauthorized access, and data security threats.

Information Security Certificate students will leverage their technical knowledge with problem-solving skills to address the growing threats arising from cyberattacks and information privacy intrusions. Students will be equipped with the skills needed to assess risks to the security of personal and proprietary information in an organization and articulate the technical, organizational, and human factors associated with these risks.

## About

Information Security jobs are among the fastest-growing careers nationally. The Department of Labor's Bureau of Labor Statistics predicts that "Employment of information security analysts is projected to grow 33 percent from 2020 to 2030, much faster than the average for all occupations." (<https://www.bls.gov/ooh/computer-and-information-technology/information-security-analysts.htm>).

Students will learn to evaluate information technology tools designed to protect against threats facing organizations and assess the impact of security policies on existing complex systems and organizational objectives while considering regulatory requirements and compliance. Students will be well equipped to oversee the information security life cycle of an organization, including planning, acquisition, development, and evolution of secure infrastructures.

The undergraduate certificate in Cybersecurity will provide a documented credential that an informal track of courses does not reflect. As a certificate, it could also be completed independently of the Bachelor of Science in Information Science & Technology (BSIST) program.

Graduates can work in careers such as information security analysts, penetration testers, and forensic computer analysts.

## Requirements

To fulfill the requirements for the cybersecurity certificate, students must complete the following coursework with a minimum 2.5 GPA:

Code	Title	Credits
<b>Required</b>		
INFOST 325	Information Security I	3
INFOST 385	Information Security II	3
<b>Electives</b>		<b>12</b>

Select a minimum of 12 credits from the following eligible courses

INFOST 465	Legal Aspects of Information Products and Services
INFOST 491	Advanced Topics in Information Science & Technology: (Relevant courses such as Web Application Penetration Testing)

INFOST 660	Information Policy
INFOST 661	Information Ethics
INFOST 691	Special Topics in Information Science: (Relevant courses such as Computer Forensics)
INFOST 695	Ethical Hacking I
INFOST 696	Ethical Hacking II
INFOST 697	Cisco Routing & Switching I
COMPSCI 469	Introduction to Computer Security
BUS ADM 530	Privacy and Information Security for Business

**Total Credits** **18**

## Data Analytics, BS (School of Information Studies)

There is data all around us. Businesses are looking to hire people who can manage that data, analyze it, and use it for more effective decision making. The Bachelor of Science in Data Analytics (BSDA) is designed for you to learn those skills.

The Bachelor of Science in Data Analytics is a special degree program that includes courses from the College of Letters & Science, the College of Community Engagement & Professions, the Lubar College of Business, and the College of Engineering & Applied Science to provide a solid general education as well as an interdisciplinary approach to data analytics.

The BS in Data Analytics at UWM is unique because its goal is to train students to practice data analytics in a field they are most passionate about. If you enroll in this program, you will take foundational classes to build core data analytics skills, then specialize in data analytics for business, health, information science, natural sciences, social sciences, or geographic information sciences.

The career prospects for individuals with data analytics degrees are very positive. Data analytics skills are being used not only in industries that are obviously oriented toward using data, like information technology, sciences and business, but also in fields that more recently have begun to take full advantage of their data resources, like agriculture, atmospheric sciences, environmental sciences, geography, and healthcare.

## Requirements

The B.S. in Data Analytics requires 33 credits in General Education courses, 16 credits in Foundation courses, 33 credits in Core courses, 24 credits in a Specialization, and electives to reach a total of 120 credits.

### General Education Competency and Breadth Courses (p. 30)

Code	Title	Credits
<b>Oral and Written Communication Part A</b>		
Grade of C or better in ENGLISH 102 or equivalent		3
<b>Oral and Written Communication Part B</b>		
ENGLISH 205	Business Writing	3
<b>Quantitative Literacy Part A</b>		
Grade of C or better in one of the following:		3
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	

Equivalent course

<b>Quantitative Literacy Part B</b>	
Choose one of the following:	
MATH 208	Quantitative Models for Business
MATH 211	Survey in Calculus and Analytic Geometry I
MATH 213	Calculus with Life Sciences Applications
MATH 221	Honors Calculus I
MATH 231	Calculus and Analytic Geometry I

<b>Breadth Courses</b>	
Arts GER course	3
Cultural Diversity GER course	3
Humanities GER courses	6
Natural Science GER courses (including one lab or field experience)	6
Social Science GER courses	6
Language other than English (two semesters or equivalent)	0-10
<b>Total Credits</b>	<b>36</b>

## Foundation Courses

Code	Title	Credits
<b>Mathematics</b>		<b>10</b>
MATH 240	Matrices and Applications	
MATH 212	Survey in Calculus and Analytic Geometry II (4 credits)	
<i>Choose one of the following (3 credits)</i>		
BUS ADM 210	Statistical Modeling in Business Analytics	
BUS ADM 211	Business Scholars: Statistical Modeling in Business Analytics	
ECON 210	Economic Statistics	
MTHSTAT 215	Elementary Statistical Analysis	
<b>Computer Literacy 1 <sup>1</sup></b>		<b>3</b>
<i>Choose one of the following (3 credits)</i>		
BUS ADM 230	Introduction to Information Technology Management	
HS 224	Computational Tools for Healthcare Professionals	
COMPSCI 150	Survey of Computer Science	
<b>Computer Literacy 2 <sup>1</sup></b>		<b>3</b>
<i>Choose one of the following (3 credits)</i>		
COMPSCI 202	Introductory Programming Using Python	
COMPSCI 240	Introduction to Engineering Programming	
COMPSCI 250	Introductory Computer Programming	
INFOST 350	Introduction to Application Development	
<b>Total Credits</b>		<b>16</b>

<sup>1</sup> Computer Literacy 1 and 2 can be satisfied by COMPSCI 250 and COMPSCI 251.

**Core Courses**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Programming Languages 6</b>		
<i>Choose two of the following (6 credits)</i>		
BUS ADM 335	Introduction to Business Application Development	
BUS ADM 432	Object-Oriented Systems Development	
INFOST 350	Introduction to Application Development (Cannot be used in this category if it was used to satisfy the 'Computer Literacy 2' requirement)	
INFOST 440	Web Application Development	
BIO SCI 502	Introduction to Programming and Modeling in Ecology and Evolution	
COMPSCI 351	Data Structures and Algorithms	
MTHSTAT 216	Introduction to Statistical Computing and Data Science	
<b>Databases 3</b>		
<i>Choose one of the following (3 credits)</i>		
BUS ADM 434	Data Base Management Systems	
INFOST 410	Database Information Retrieval Systems	
HI 537	Health Information Technology and Management	
COMPSCI 557	Introduction to Database Systems	
<b>Analytics and Big Data/Data Mining 6</b>		
<i>Choose two of the following (6 credits)</i>		
BUS ADM 336	Enterprise Systems and Data Analytics	
BUS ADM 536	Business Intelligence	
INFOST 582	Introduction to Data Science	
INFOST 687	Data Analysis for Data Science	
INFOST 691	Special Topics in Information Science: ('Computer Forensics' is eligible. Other topics offered in a specific offering of this course must be approved for the degree by the Director of the Program.)	
ATM SCI 600	Data Analytics	
COMPSCI 411	Machine Learning and Applications	
COMPSCI 422	Introduction to Artificial Intelligence	
COMPSCI 425	Introduction to Data Mining	
ECON 411	Economic Forecasting Methods	
GEOG 215	Introduction to Geographic Information Science	
GEOG 525	Geographic Information Science (4 credits)	
<b>Visualization 3</b>		
<i>Choose one of the following (3 credits)</i>		
BUS ADM 438	Information Technology Management Topics:	
INFOST 370	Data Analysis and Visualization for the Information Professional	
GEOG 405	Cartography (4 credits)	
<b>Statistics 6</b>		
<i>Choose two of the following (6 credits)</i>		

MTHSTAT 361	Introduction to Mathematical Statistics I	
MTHSTAT 362	Introduction to Mathematical Statistics II	
ATM SCI 500	Statistical Methods in Atmospheric Sciences	
ECON 413	Statistics for Economists	
ECON 513	Introduction to Econometrics	
<b>Communication 3</b>		
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	
<b>Ethics 3</b>		
<i>Choose one of the following (3 credits)</i>		
BUS ADM 530	Privacy and Information Security for Business	
INFOST 661	Information Ethics	
HS 311	Law and Ethics for Healthcare Professionals	
COMPSCI 395	Social, Professional, and Ethical Issues	
PHILOS 237	Technology, Values, and Society	
SOCIOL 327	Data, Technology, and Society	
<b>Capstone/Fieldwork/Thesis 3</b>		
<i>Choose one of the following (3 credits)</i>		
BUS ADM 389	Real Estate Internship	
BUS ADM 394	Human Resources Management Internship	
BUS ADM 396	Finance Internship	
BUS ADM 397	Marketing Internship	
BUS ADM 398	Supply Chain & Operations Management Internship	
BUS ADM 400	Accounting Professional Internship	
BUS ADM 439	Information Technology Management Professional Internship	
BUS ADM 459	Finance Professional Internship	
BUS ADM 469	Marketing Professional Internship	
BUS ADM 479	Supply Chain & Operations Management Professional Internship	
BUS ADM 494	International Business Internship	
BUS ADM 534	Information Technology Practicum	
BUS ADM 600	Management Analysis	
INFOST 408	Nonprofit Information Technology	
INFOST 490	Senior Capstone	
INFOST 495	Information Internship	
COMPSCI 595	Capstone Project	
ECON 489	Internship in Economics, Upper Division	
MTHSTAT 489	Internship in Mathematical Statistics, Upper Division	
MATH 599	Capstone Experience (1 credit)	
GEOG 600	Perspectives on Geography	
GEOG 698	GIS/Cartography Internship	

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**Total Credits 33**



## Electives in Different Specializations (24 credits in each specialization)

Code	Title	Credits
<b>Business 24</b>		
Select any 24 credits; Sub-specializations are listed so students may focus their coursework.		
BUS ADM 532	Web Development for Open Business Systems	
BUS ADM 533	Introduction to Connected Systems for Business	
BUS ADM 536	Business Intelligence	
BUS ADM 537	Enterprise Systems Concepts and Issues	
BUS ADM 539	Web Application Server Development	
BUS ADM 540	ERP Certification	
<i>Supply Chain</i>		
BUS ADM 370	Introduction to Supply Chain Management	
BUS ADM 436	Systems Analysis and Design	
BUS ADM 478	Supply Chain Analytics	
BUS ADM 571	Quality and Six Sigma Tools	
<i>Marketing</i>		
BUS ADM 360	Principles of Marketing	
BUS ADM 462	Marketing Research	
<i>Finance</i>		
BUS ADM 350	Principles of Finance	
BUS ADM 450	Intermediate Finance	
BUS ADM 451	Investment Finance	
BUS ADM 457	Financial Modeling	
BUS ADM 458	Venture Finance	
<i>Recommended<sup>2</sup></i>		
BUS ADM 300	Career and Professional Development (1 credit)	
<b>Information Science and Technology 24</b>		
INFOST 240	Web Design I	
INFOST 315	Knowledge Organization for Information Science and Technology	
INFOST 320	Web Design II	
INFOST 325	Information Security I	
INFOST 340	Introduction to Systems Analysis	
INFOST 350	Introduction to Application Development (If not used already as part of the Foundations requirement)	
INFOST 375	Multimedia Web Design	
INFOST 383	Native Mobile Applications	
INFOST 430	Multimedia Application Development	
INFOST 465	Legal Aspects of Information Products and Services	
INFOST 491	Advanced Topics in Information Science & Technology. <sup>3</sup>	
INFOST 583	Survey of Information Security	
INFOST 584	Survey of Web and Mobile Content Development	
INFOST 695	Ethical Hacking I	

INFOST 691	Special Topics in Information Science. <sup>3</sup>	
<b>Health 24</b>		
<i>This specialization will require 3-6 credits from a different specialization as approved by the Program Director.</i>		
HCA 307	Epidemiology for the Health Sciences	
HCA 444	Introduction to Text Retrieval and Its Applications in Biomedicine	
HCA 541	Healthcare Information Systems Analysis and Design	
HCA 542	Healthcare Database Design and Management	
PH 355	Public Health Research Methods I	
PH 410	True Lies: Consuming and Communicating Quantitative Information	
PH 455	Public Health Research Methods II	
<i>Recommend one of the following:<sup>2</sup></i>		
HS 222	Language of Medicine	
BMS 205	Introduction to Diagnostic Medicine	
NURS 352	Health and Illness Concepts 1: Introduction	
<b>Natural Sciences 24</b>		
BIO SCI 469	Genomic Data Analysis (2 credits)	
FRSHWTR 504	Quantitative Freshwater Analysis	
FRSHWTR 514	Analytical Techniques in Freshwater Sciences	
FRSHWTR 640	Sequence Analysis	
MTHSTAT 563	Regression Analysis	
MTHSTAT 564	Time Series Analysis	
MTHSTAT 568	Multivariate Statistical Analysis	
MATH 583	Introduction to Probability Models	
ACTSCI 391	Investment Mathematics I (4 credits)	
ACTSCI 591	Investment Mathematics II	
ACTSCI 593	Actuarial Models I	
ACTSCI 594	Actuarial Models II	
ACTSCI 596	Actuarial Statistics I	
ACTSCI 597	Actuarial Statistics II	
<b>Social Sciences 24</b>		
<i>Choose at most one of the following methods courses:</i>		
CRM JST 662	Methods of Social Welfare Research	
POL SCI 203	Introduction to Political Science Research	
PSYCH 325	Research Methods in Psychology (4 credits)	
AFRIC 301	Research Methods in African & African Diaspora Studies	
SOCIOL 361	Research Methods in Sociology	
<i>Choose at most one of the following multiple regression courses</i>		
ECON 310	Research Methods for Economics	
PSYCH 610	Experimental Design	
SOCIOL 461	Social Data Analysis Using Regression	
<i>And, take courses from the list below to complete 24 credits.</i>		
CRM JST 510	Introduction to Crime Analysis	

CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS
GEOG 215	Introduction to Geographic Information Science
GEOG 525	Geographic Information Science (4 credits)
GEOG 547	Spatial Analysis (4 credits)
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 510	Advanced Psychological Statistics
SOCIOL 352	Social Networks
<b>Geographic Information Science</b>	<b>24</b>
GEOG 403	Remote Sensing: Environmental and Land Use Analysis (4 credits)
GEOG 437	Qualitative Methods in Geography
GEOG 547	Spatial Analysis (4 credits)
GEOG 515	Watershed Analysis and Modeling
GEOG 625	Intermediate Geographic Information Science (4 credits)
URBPLAN 591	Introduction to Urban Geographic Information Systems (GIS) in Planning
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS

<sup>2</sup> Recommended courses do not count toward the specialization unless approved by the Director. They are merely recommended additional courses.

<sup>3</sup> Specific topics courses need to be approved for the degree by the Program Director. A topic course cannot be used again if applied to a prior degree requirement category.

## General Electives

With the help of their academic advisor, students will select electives to complete the 120 total credits required for the degree. Electives are tailored to each student's interests and career goals.

## Second Degree

A student wishing to complete a second degree in BSDA will need to complete all 33 credits of the Core Courses. They must complete the Foundations courses to be eligible for this degree. They are not required to complete the Electives with specialization, as their first major may fulfill that role in the degree.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Data Curation, Graduate Certificate Graduate Certificate in Data Curation

The Graduate Certificate in Data Curation will provide an Information Science-centered focus on data issues, particularly in the representation, organization, storage, and retrieval of large amounts of data where expertise in these areas is needed. Data professionals are needed to fulfill a variety of functions, including data management, curation, and stewardship in academic and industry settings.

Data curators work alongside data engineers and data scientists to design, implement, and apply data management techniques to relevant data sets. Graduates of the program will gain the skills to identify reliable data sources, analyze data in various formats, and design and maintain big data and data analytics systems using the principles of data mining, data modeling, and data architecture.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

The minimum G.P.A. for admission is 2.75 (4 point scale) in a prior bachelor's or postbaccalaureate degree (or cumulative credits after admission to a dual bachelor-master's degree program.) Preference will be given to those students who have a baccalaureate degree in information sciences, computer information systems, computer

science, engineering, statistics, or a related field. Students with sufficient background gained through work experience or professional training in information technologies, such as networks, web services, and database development, will also be considered for admission to the program.

In addition to the Graduate School application materials, applicants must submit a one to two page reason statement outlining their background and their educational and professional goals.

Those who have neither of the aforementioned qualifications will be encouraged to take the following prerequisites, or their equivalents, before taking related courses:

Code	Title	Credits
INFOST 240	Web Design I	3
INFOST 410	Database Information Retrieval Systems	3
INFOST 440	Web Application Development	3

If taken, these courses must have been completed within the last five years with a grade of B or better (B- not acceptable).

## Credits and Courses

To complete the requirements for the data curation certificate, students must complete:

Code	Title	Credits
<b>Required</b>		
INFOST 582G	Introduction to Data Science	3
INFOST 771	Data Curation	3
<b>Electives</b>		
Select a minimum of 9 credits from the following:		9
INFOST 465G	Legal Aspects of Information Products and Services	
INFOST 655G	Information and Records Management:	
INFOST 656G	Electronic Documents and Records Management	
INFOST 660G	Information Policy	
INFOST 661G	Information Ethics	
INFOST 687G	Data Analysis for Data Science	
INFOST 691G	Special Topics in Information Science: (with relevant topic)	
INFOST 714	Metadata	
INFOST 717	Information Architecture	
INFOST 719	Advanced Topics in Information Organization (with relevant topic)	
INFOST 785	Database Management Systems for Information Professionals	
<b>Total Credits</b>		<b>15</b>

Relevant courses from other units on campus will also be considered, including:

Code	Title	Credits
BUS ADM 749	Data and Information Management	3
COMPSCI 411G	Machine Learning and Applications	3
COMPSCI 425G	Introduction to Data Mining	3
COMPSCI 557G	Introduction to Database Systems	3

COMPSCI 723	Natural Language Processing	3
COMPSCI 744	Text Retrieval and Its Applications in Biomedicine	3
HI 745	Health Big Data Processing Platforms	3
HI 760	Biomedical and Healthcare Terminology and Ontology	3

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Digital Libraries, Graduate Certificate

The Certificate in Digital Libraries is designed to help working professionals update their knowledge and develop specialty relating to the acquisition, organization and maintenance of digital content, virtual collections and services. It will enable students to either alter the direction of a career path or to enrich, update, and strengthen their skills and their knowledge of their field.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

Admission to the Master of Library and Information Science program or a master's program in a closely related field such as computer science or educational technology is required to apply for the certificate. Students already possessing an MLIS or master's degree in a closely related field may also apply for the program as a standalone certificate.

In addition to the Graduate School application materials, applicants must submit a one to two page reason statement outlining their background and their educational and professional goals.

## Credits and Courses

The candidate will complete 15 credits of coursework, planned in conjunction with their advisor, and approved by the Associate Dean of the School of Information Studies as an individually designed program suited for the needs and professional objectives of the student.

A minimum of 12 credits must be taken in the School of Information Studies.

No thesis is required, but students may obtain up to 3 credits in independent research which is included as a part of the total approved program.

- See the list of School of Information Studies (p. 1892) courses.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Information Science and Technology, BS

Information science, on which the Information Science and Technology program is based, is the study of the organization, storage, retrieval, dissemination, and use of information. Information technology (IT) is the collection of tools that make it possible to access and use information. Some graduates will go directly into jobs in business and industry sectors that rely heavily on information as a raw material or as a product. Other graduates may go on to graduate study in library and information science, information management, computer science, or telecommunications.

## Career Opportunities

The Bachelor of Science in Information Science and Technology will give students a head start on any number of careers in the information industry:

- Information Architect
- Business Information Coordinator
- Network Manager
- IT Consultant
- Web Designer
- Technology Trainer
- Multimedia Specialist
- Human-Computer Interface Designer

- Software/Systems Developer
- Technical Writer
- Database Developer
- Digital Library Specialist
- E-Commerce Web Administrator

## Experiential Learning

Becoming a leader in IT means immersing yourself in the tools and technologies of the profession. SOIS provides students with valuable experiential learning opportunities through the Nonprof-IT program. The mission of the Nonprof-IT program is to empower local nonprofit organizations with comprehensive information technology support by creating internship opportunities for UW-Milwaukee students. UWM students gain real world experience working on project teams, providing technology solutions, and receive credits toward graduation while developing a passion for service. Visit the Nonprof-IT website (<https://uwm.edu/informationstudies/community-engagement/nonprof-it/>) to learn more.

## BSIST Mission

The mission of the Bachelor of Science in Information Science and Technology (BSIST) program is to prepare students – equipped with technical, interpersonal, and ethical proficiencies – for careers in the information professions who will design, build, and support user-focused information technology solutions to meet a diverse set of needs.

## BSIST Learning Outcomes

Graduates of the Bachelor of Science in Information Science and Technology (BSIST) program will have the ability to:

1. Analyze complex information and technology needs, and to apply principles of information science and other relevant disciplines to identify and implement solutions.
2. Design, implement, evaluate, and administer information systems to meet a given set of requirements – including user and organizational needs – in diverse environments.
3. Communicate effectively in a variety of professional contexts.
4. Function effectively as a member or leader of a team engaged in the design, implementation, and evaluation information technology solutions.
5. Recognize organizational and social responsibilities as information professionals and make informed judgments based on legal and ethical principles.

[Syllabi for all BSIST courses – both core and electives – should specify which of the learning outcomes will be achieved by the end of the course.]

Approved by BSIST Curriculum Committee: March 2, 2018

## Requirements

Code	Title	Credits
Area I: UWM Distribution Requirements		21
Area II: Major Requirements		30
Area III: Information Studies Electives		15
Area IV: BSIST Cross-functional Electives		12
Area V: General Electives		42
<b>Total Credits</b>		<b>120</b>

## Related Area of Study

Each student will work with his/her advisor to select general electives, including related areas of study that are appropriate to his/her career goals and to complete the 120 total credit requirements for the BSIST degree. Because of its interdisciplinary and cross-functional nature, the BSIST program allows students to apply the study of the concepts and tools of information science, information architecture, and information technology to one or more related areas of study. The related area of study is a set of courses outside of the BSIST major, normally a minor or certificate in another field of study, typically including 18-22 credits. In some cases, students may choose to study two related areas as part of their BSIST program.

**Related Areas of Study Selected List:** Computer Science; Health Care Administration; Art & Design; General Business; Library & Information Science; Philosophy; Global Studies; Intelligent Systems; Communication; Digital Arts & Culture; Mass Communication & Journalism

With the help of their advisor, students create and customize their own related area of study. This may be credit-bearing courses that students will take to prepare for certification examinations such as Microsoft certifications, CISCO, etc., or a customized selection of courses chosen by students that will sharpen their skills in one or more selected areas of study.

## Completing the Degree

The BSIST degree includes a total of 120 credits as follows:

Code	Title	Credits
<b>Area I: UWM Distribution Requirements</b>		
General Education Requirements (GER) <sup>1</sup>		21
<b>Area II: Major Requirements</b>		
INFOST 110	Introduction to Information Science and Technology	3
INFOST 240	Web Design I	3
INFOST 290	Project Teams, Leadership, and Communication	3
INFOST 310	Human Factors in Information Seeking and Use	3
INFOST 315	Knowledge Organization for Information Science and Technology	3
INFOST 340	Introduction to Systems Analysis	3
INFOST 350	Introduction to Application Development	3
INFOST 410	Database Information Retrieval Systems	3
INFOST 440	Web Application Development	3
INFOST 490	Senior Capstone	3
<b>Area III: Information Studies Electives</b>		
Select five additional Information Studies courses at the 300, 400, 500, or 600 level or equivalent coursework		15
<b>Area IV: BSIST Cross-functional Electives</b>		
Select 12 credits		12
<b>Area V: General Electives</b>		
Select 42 General Electives, including Associate Area(s) of Study		42
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Learn more about the General Education Requirements (p. 29).

To continue and graduate in the BSIST program, each student must maintain a grade point average of at least 2.5 in the major and a cumulative grade point average of at least 2.0 on all credits counted toward the degree.

Students who have previously completed a bachelor's degree may be eligible to earn a second bachelor's degree in Information Science and Technology by completing 36 Information Studies (INFOST) credits in consultation with a BSIST advisor.

## Four-Year Graduation Guarantee

If a student satisfies all the obligations described in the Four-Year Graduation Guarantee, the student will be able to complete an undergraduate degree within four years. If the undergraduate degree completion in four years is delayed by the unavailability of courses, then UWM will relieve the student of the financial tuition burden for courses still required for graduation.

## IST Core Competencies

The successful BSIST student will demonstrate understanding of the following:

- theoretical nature of information science and information technologies;
- organization and architecture of information based on understanding of the context, the content, and the user needs;
- user-centered information system and service development;
- information storage and retrieval systems;
- management of information, including the processes to enable the flow of information; and
- use of information and communication technology for managing and organizing information and content.

## Admission to the BSIST Program

Standard UWM admission policies for freshmen and transfer students apply. Students may begin the program as freshmen or after completing several semesters as undeclared or other majors. Students may begin as transfer students from another accredited college or university or as students returning to get a second degree.

In addition to being available during standard class times, the BSIST degree is available fully online to serve students both on and off campus.

### Entrance Guidelines

Students who meet the standard University admission requirements are admissible to the School of Information Studies. The same criteria for acceptance are applied to in-state and out-of-state students. For undergraduate admission requirements, see the Admission (p. 15) section of this catalog.

## Advising

Students accepted by UWM who declare an interest in the IST program will be assigned a SOIS advisor. Students are expected to work closely with their IST advisor to tailor a program of electives to best suit their interests and career goals. IST students may also wish to explore minors or certificates in related areas such as computer science or technical

writing. For information on Academic Advising for IST majors, please visit the SOIS Academic Advising (<https://uwm.edu/informationstudies/students/academic-advising/>) page.

## Career Services

Whether you are a recent graduate just starting your career or an alumni looking for a change, the School of Information Studies (SOIS) is committed to supporting students and alumni throughout their careers. Visit our career resources (<https://uwm.edu/informationstudies/students/career-resources/>) page for career-related resources and join us throughout the year for career workshops and networking opportunities.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Major

GPA of 3.500 or above in all Information Studies (INFOST) courses applied towards the Information Studies Core (Area II) and Upper Division (Area III) requirements. A minimum of 36 INFOST credits completed in residence are needed towards the Core and Upper Division requirements to be considered for Honors in the Major

## High Honors in the Major

GPA of 3.750 or above in all Information Studies (INFOST) courses applied towards the Information Studies Core (Area II) and Upper Division (Area III) requirements. A minimum of 36 INFOST credits completed in residence are needed towards the Core and Upper Division requirements to be considered for High Honors in the major.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Information Science and Technology, Minor

For undergraduate students in other degree programs outside the School of Information Studies, SOIS also offers an undergraduate minor in Information Science and Technology (IST).

Students who wish to become information and technology literate while pursuing studies in their major areas are candidates. For example, the minor is attractive to students majoring in the humanities, arts, and social sciences where the combination of their major field with the IST minor will help prepare students for careers in information-related work. Fields that combine well with the IST minor include English (particularly Technical Writing), Modern Languages, Communication, Mass Communication, Psychology, Sociology, and the arts. It should also be of interest to students majoring in professional fields such as Computer Science and Business Administration where the courses from IST will complement their major.

### Requirements

Fulfillment of the minor entails completion of 18 credits from the following list of courses:

Code	Title	Credits
<b>Required</b>		<b>3</b>
INFOST 110	Introduction to Information Science and Technology	
<b>6 credits from the following IST Core options:</b>		<b>6</b>
INFOST 240	Web Design I	
INFOST 290	Project Teams, Leadership, and Communication	
INFOST 310	Human Factors in Information Seeking and Use	
INFOST 315	Knowledge Organization for Information Science and Technology	
INFOST 340	Introduction to Systems Analysis	
INFOST 350	Introduction to Application Development	
INFOST 410	Database Information Retrieval Systems	
INFOST 440	Web Application Development	
INFOST 490	Senior Capstone	
<b>9 credits:</b>		<b>9</b>
9 additional credits to be taken from INFOST 300-level or above coursework		
<b>Total Credits</b>		<b>18</b>

## Information Science and Technology, MS

The Master of Science in Information Science and Technology (MSIST) is a professional graduate degree program for those who seek advanced training to meet the ever increasing need for information technology (IT) professionals. The degree will be composed of 30 credit hours and will supplement our Bachelor of Science in Information Science and Technology.

The MSIST will provide essential skills and knowledge in the following areas:

- **Data science:** Provides students with advanced knowledge and skills to manage data sets generated by applications.
- **Information security:** Focuses on techniques ensuring the security of all data captured, stored and analyzed through applications.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

- A resume.
- A one to two page reason statement outlining your background and your educational and professional goals.

#### Prerequisites

Preference will be given to those students who have a baccalaureate degree in information sciences, computer information systems, computer science, engineering, statistics, or a related field. Students with sufficient background gained through work experience or professional training in information technologies, such as networks, web services, and database development, will also be considered for admission to the program. Those who have neither of the aforementioned qualifications will be encouraged to take the following prerequisites, or their equivalents, before taking related courses:

Code	Title	Credits
INFOST 240	Web Design I	3
INFOST 410	Database Information Retrieval Systems	3
INFOST 440	Web Application Development	3

If taken, these courses must have been completed within the last five years with a grade of B or better (B- not acceptable).

### Credits and Courses

The program requires 30 graduate-level credits, including 15 credits of required coursework, competency requirement and either 12 or 15 credits of elective credit depending on whether competency is demonstrated through coursework or examination.

Code	Title	Credits
<b>Core Courses</b>		
INFOST 582	Introduction to Data Science	3
INFOST 583	Survey of Information Security	3
COMPST 701	Computing Fundamentals for IT Professionals	3
COMPST 703	Software Development Life Cycle	3

*Programming proficiency as demonstrated by one of the following with a "C" or better:* 0-3

INFOST 350	Introduction to Application Development	
BUSMGMT 744	R Programming for Business Analytics	
COMPST 702	Introductory Programming Using Python	
COMPST 750	Problem Solving with Object-Oriented Programming	
HI 741	Essential Programming for Health Informatics	
PH 718	Data Management and Visualization in R	

Programming Competency Examination

#### *Culminating Course*

INFOST 790	Project Design, Implementation, and Evaluation	3
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#### **Electives**

12-15 credits from any INFOST or COMPST course offerings or from any of the Tracks. Number of credits is dependent on whether programming competency is demonstrated through coursework or examination. 12-15

**Total Credits** 30

### **Electives**

Select 12 or 15 credits of elective credits depending on whether programming competency is demonstrated through coursework or examination. Electives can be used toward Tracks.

#### **Electives for the Information Security Track**

12 credits of coursework from any of the courses listed below.

Code	Title	Credits
INFOST 465	Legal Aspects of Information Products and Services (G)	3
INFOST 547	User-Centered Interaction Design	3
INFOST 584	Survey of Web and Mobile Content Development	3
INFOST 660	Information Policy	3
INFOST 661	Information Ethics	3
INFOST 671	Applied Web 3.0: Artificial Intelligence and Blockchain	3
INFOST 691	Special Topics in Information Science:	1-3
INFOST 695	Ethical Hacking I	3
INFOST 696	Ethical Hacking II	3
INFOST 697	Cisco Routing & Switching I	3
INFOST 784	Information Security Management	3
INFOST 785	Database Management Systems for Information Professionals	3
BUS ADM 743	Information Privacy, Security & Continuity	3
BUS ADM 817	Connected Systems for Business	3
COMPSCI 469	Introduction to Computer Security	3
COMPSCI 520	Computer Networks	3

COMPST 750	Problem Solving with Object-Oriented Programming	3
COMPST 751	Data Structures and Algorithms	3

#### **Electives for the Data Science Track**

12 credits of coursework from any of the courses listed below.

Code	Title	Credits
INFOST 465	Legal Aspects of Information Products and Services	3
INFOST 660	Information Policy	3
INFOST 661	Information Ethics	3
INFOST 671	Applied Web 3.0: Artificial Intelligence and Blockchain	3
INFOST 687	Data Analysis for Data Science	3
INFOST 691	Special Topics in Information Science:	1-3
INFOST 714	Metadata	3
INFOST 719	Advanced Topics in Information Organization	3
INFOST 771	Data Curation	3
INFOST 784	Information Security Management	3
INFOST 785	Database Management Systems for Information Professionals	3
BUS ADM 713	Business Forecasting Methods	3
BUS ADM 741	Web Mining and Analytics	3
BUS ADM 744	Information Technology Strategy and Management	3
BUS ADM 746	Topics in Information Technology Management:	3
BUS ADM 749	Data and Information Management	3
BUS ADM 754	Statistical Analysis	3
BUS ADM 763	Marketing Analytics	3
BUS ADM 769	Database Marketing	3
BUS ADM 810	Development of Web-Based Solutions	3
BUS ADM 816	Business Intelligence Technologies & Solutions	3
BUS ADM 914	Advanced Multivariate Techniques in Management Research	3
BUSMGMT 709	Predictive Analytics for Managers	3
BUSMGMT 744	R Programming for Business Analytics	3
COMPSCI 423	Introduction to Natural Language Processing	3
COMPSCI 425	Introduction to Data Mining	3
COMPSCI 557	Introduction to Database Systems	3
COMPSCI 710	Artificial Intelligence	3
COMPSCI 744	Text Retrieval and Its Applications in Biomedicine	3
COMPST 702	Introductory Programming Using Python	3
COMPST 750	Problem Solving with Object-Oriented Programming	3
COMPST 751	Data Structures and Algorithms	3
COMPST 790	Advanced Topics in Computer Studies:	3-9
ELECENG 711	Introduction to Machine Learning	3
ELECENG 890	Special Topics:	3



GEOG 726	Geographic Information Science	4
HI 741	Essential Programming for Health Informatics	3
HI/COMPSCI 744	Text Retrieval and Its Applications in Biomedicine	3
HI 760	Biomedical and Healthcare Terminology and Ontology	3

### Electives for the Generalist Track

Code	Title	Credits
Any Graduate level INFOST or COMPST course.		1-3
Any course from the Data Science Track.		1-3
ART 302	Art and Design Workshop:	3
ART 412	Advanced Creative Technologies	3
ART 423	Experimental Typography	3
ART 496	Sequence and Structure	3
ART 524	Professional Practice in Design:	3-6
ART 929	Advanced Research-Design & Digital Media	1-4
ARCH 583	Emerging Digital Technology:	3
ARCH 771	Representation I	3
BUS ADM 748	Managing Information Technology Projects	3
COMPSCI 459	Fundamentals of Computer Graphics	3
COMPSCI 481	Server-side Internet Programming	3
COMPSCI 482	Rich Internet Applications	3
COMPSCI 522	Computer Game Design	3
COMPSCI 718	Advanced Computer Graphics: Modeling and Animation	3
COMPSCI 737	Software Project Management	3
COMPSCI 743	Intelligent User Interfaces	3
COMPSCI 747	Principles & Practices of User Interface Design	3
GEOG 704	Remote Sensing: Environmental and Land Use Analysis	4
GEOG 705	Cartography	4
GEOG 726	Geographic Information Science	4
GEOG 804	Advanced Remote Sensing	3

### Minimum Grade Requirement in the Required Courses

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Materials and assignments used previously may not be reused or resubmitted when retaking a required course unless approved by the instructor. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

## Additional Requirements

### Time Limit

All degree requirements must be completed within five years from the date of initial enrollment in the Master's program.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Information Science and Technology, MS/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### MSIST/MS Information Science and Technology

A Master of Science in Information Science and Technology/Master of Library and Information Science program prepares students for positions in information technology in all types of libraries, 54 credits.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

### Degree Requirements

Thirty hours will be required for the MLIS and twenty-four for the MSIST. SOIS reduces the MLIS by 6 credit hours of electives in consideration of another master's degree. The requirements for the MSIST are its 5 or 6 core courses plus 6 or 9 credits of elective coursework totaling 24 credits.

In sum, for 54 credit hours a student can complete both the MLIS and MSIST degrees. Degrees will be awarded simultaneously.

- See the MSIST (p. 487) page and the MLIS (p. 493) page for more information.

### Information Science and Technology (MS)

Code	Title	Credits
<b>Core Courses</b>		
INFOST 582	Introduction to Data Science	3
INFOST 583	Survey of Information Security	3
COMPST 701	Computing Fundamentals for IT Professionals	3
COMPST 703	Software Development Life Cycle	3
<b>Programming proficiency as demonstrated by one of the following with a "C" or better:</b>		<b>0-3</b>
INFOST 350	Introduction to Application Development	
BUSMGMT 744	R Programming for Business Analytics	
COMPST 702	Introductory Programming Using Python	
COMPST 750	Problem Solving with Object-Oriented Programming	
HI 741	Essential Programming for Health Informatics	
PH 718	Data Management and Visualization in R	
Programming Competency Examination		
<b>Culminating Course</b>		
INFOST 790	Project Design, Implementation, and Evaluation	3
<b>Electives</b>		
6-9 credits from any INFOST or COMPST course offerings from any of the Tracks. Number of credits is dependent on whether programming competency is demonstrated through coursework or examination.		6-9
<b>Total Credits</b>		<b>24</b>

### Master of Library and Information Science (MLIS)

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	
INFOST 511	Organization of Information	
INFOST 571	Information Access and Retrieval	
INFOST 799	Research Methods in Information Studies	
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Additional Requirements

### Time Limit

All degree requirements must be completed within seven years from the date of initial enrollment in the Master's program.

## Information Security, Graduate Certificate in Information Security

The Graduate Certificate in Information Security will prepare students to address the growing threats arising from cyberattacks and information privacy intrusions. Students learn how to assess risks to the security of proprietary information in an organization and how to articulate the technical, organizational, and human factors associated with these risks. Students will learn how to evaluate information technology tools designed to protect against information security threats and assess the impact of security policies on existing complex systems and organizational objectives.

Graduates are well prepared to oversee the information security life cycle of an organization, including planning, acquisition, development, and evolution of secure infrastructures.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

In addition to the Graduate School application materials, applicants must submit a one to two page reason statement outlining their background and their educational and professional goals.

## Credits and Courses

Students in the Information Security certificate program must complete a minimum of 15 graduate credits.

Code	Title	Credits
<b>Required</b>		
INFOST 583G	Survey of Information Security	3
INFOST 784	Information Security Management	3
<b>Electives</b>		
Select a minimum of 9 credits from the following: <sup>1</sup>		9
INFOST 465G	Legal Aspects of Information Products and Services	
INFOST 660G	Information Policy	
INFOST 661G	Information Ethics	
INFOST 691G	Special Topics in Information Science: (with relevant topic)	
INFOST 695G	Ethical Hacking I	
INFOST 696G	Ethical Hacking II	
INFOST 697G	Cisco Routing & Switching I	
INFOST 785	Database Management Systems for Information Professionals	
INFOST 897	Information Science and Technology Independent Study	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Relevant courses from other units that may be appropriate include: BUS ADM 743 and COMPSCI 469G.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Information Studies, PhD

### PhD Overview

The Doctor of Philosophy in Information Studies prepares graduates for academic and professional careers where an in-depth knowledge of research processes and evaluation is needed. The program emphasizes the study of the representation, storage, retrieval, use, and impact of information resources on society. Graduates will contribute to the knowledge base of the discipline and will take on leadership roles as scholars and administrators in the discipline and the profession.

### SOIS Overview

#### About the School of Information Studies

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

#### Goals of the school are:

- To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
- To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
- To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
- To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
- To promote a research orientation through participation in the Doctor of Philosophy degree program.
- To contribute to the international knowledge base of library and information science through research and publication.

7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

## Related Advanced Certificates

- Certificate of Advanced Study in Archives and Records Administration (p. 476)
- Certificate in Digital Libraries (p. 483)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students begin the Information Studies doctoral program in the fall. Applications are accepted only for the fall semester.

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program in regular status:

- Have a cumulative GPA in coursework for the Master's degree of at least 3.5 and an undergraduate GPA of 3.0. Applicants possessing a Master of Library and Information Science, or a master's degree in an allied discipline, are encouraged to apply.
- Submit three letters of recommendation from qualified persons who can attest to the applicant's aptitude for doctoral study. At least one letter must be from an academic.
- Submit a one to two page reason statement outlining your background and your educational, research, and career goals.
- Submit a writing sample that demonstrates the applicant's analytical and critical thinking skills. This may take the form of a published research paper, term paper from a previous graduate program, or earlier completed thesis.
- Submit a curriculum vitae.
- Verbal and quantitative scores for the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>) taken within the past five years are optional and are not required for admission consideration.
- Applicants are encouraged to bring at least two years of relevant professional experience prior to entering the PhD program.

Applicants lacking the requisite GPA or academic area may be considered for admission on probation, and may be required to complete preparatory coursework.

## Credits and Courses

Students will need to complete a minimum of 30 credits of approved coursework at the 700-level or higher.

Standard Graduate School minimum and maximum credit loads (<http://uwm.edu/graduateschool/academic-policies-procedures/>) apply. Full-time students are discouraged from taking more than 9 credits per semester.

Students, along with their major professor, should develop a plan for coursework that will prepare the student to carry out research in their areas of interest. Although an identified dissertation topic is not required upon entry to the program, students should begin to formulate ideas for potential topics as soon as possible thereafter.

Code	Title	Credits
<b>Foundation Courses</b>		
INFOST 901	Current Issues in Information Studies	3
INFOST 910	Doctoral Seminar in the Organization of Information	3
INFOST 960	Doctoral Seminar in Information Policy	3
INFOST 970	Doctoral Seminar in Information Retrieval	3
<b>Research Methods and Design</b>		
INFOST 903	Qualitative Research Methods <sup>1</sup>	3
INFOST 904	Quantitative Research Methods <sup>1</sup>	3
Select a minimum of 3 additional credits in approved research methods coursework <sup>2</sup>		3
<b>Specialized Area</b>		
Select a minimum of 9 credits related to the specialized area(s) of the dissertation topics from the following: <sup>3</sup>		9
Approved existing graduate courses within SOIS		
Advanced special topics classes offered within SOIS at the 700-level or higher		
INFOST 999	Independent Research	
Courses offered outside of SOIS		
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> In exceptional cases, and with the approval of the major professor, a student may satisfy these research methods requirements through courses offered in other campus units.

<sup>2</sup> The particular focus of these 3 credits will be guided by the student's planned research areas and may include coursework in research design, qualitative, quantitative, or other research methods. Additional coursework may be required at the discretion of the major professor.

<sup>3</sup> Specific courses must be approved by the major professor.

### Minimum Grade Requirement in the Required Courses

The minimum grade requirement for each of the SOIS foundation and methods courses is "B". If a doctoral student fails to meet this requirement, they are required to retake the course. Students may retake a failed course one time. A student who fails to receive a "B" or higher after retaking a required course will be recommended to the Graduate School for academic dismissal.

## Additional Requirements

### Major Professor as Advisor

Unless a student specifically requests a particular faculty member, all doctoral students initially are assigned an “interim” advisor. After the completion of 12 credits, a student is required to designate a faculty member from an approved list of major professors with specialized interests compatible with those of the student to act as the major professor. The major professor is expected to assist the student in planning the remainder of the program of studies, chair the student’s preliminary examination committee, supervise the completion of the PhD dissertation, and conduct the dissertation defense meeting. All students should consult the program handbook for additional details on school policies and procedures.

### Residence

The student must meet minimum Graduate School residence requirements of one continuous academic year of full-time graduate studies at UWM; physical residency in Milwaukee is not necessary. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master’s level.

### Distance Students

Distance students (not located near Milwaukee, Wisconsin) are encouraged to apply. Such students will be required to attend an orientation on campus at the beginning of the program. SOIS doctoral seminars will be streamed live online for distance students to participate synchronously with local students and faculty, and students will be responsible for meeting all other program requirements via online courses or other approved means. Students begin the Information Studies doctoral program in the fall. An applicant whose file is incomplete will be asked to contact the Graduate School. Application requirements and deadlines are the same for traditional and distance students. Distance students must also meet the UWM Graduate School residency requirements; physical residency in Milwaukee is not necessary.

### Preliminary Examinations / Preparatory Essays

Students will be required to complete the doctoral preparatory essays toward the end of their coursework. The purpose of the essays will be to demonstrate the student’s mastery of coursework and relevant subject matter and the student’s qualifications to proceed with dissertation research. The essays will consist of two areas: one in the major area, and one to be determined by the major professor and the student, e.g., methodology. The essays will represent non-credit research papers based on topics assigned by the student’s doctoral committee, which will consist of at least three members. The timeline for completion of the essays will be at the committee’s discretion. Based on the committee’s assessment of the essays, students will be recommended for advancement toward the PhD or academic dismissal from the program. If the essay results are found to be unsatisfactory, the student will have one opportunity to repeat the essay in a future semester after conferral with the major professor on how to prepare for the next attempt.

The preparatory essays must be successfully completed within four years of initial enrollment.

### Dissertation Proposal

A doctoral committee of at least four faculty members will be in place by the time the student undertakes their dissertation proposal. Students

may have a maximum of six committee members. The committee will consist of at least three members from the School of Information Studies and a faculty member with appropriate expertise from outside the School. All doctoral committees shall be chaired by a major professor from the SOIS graduate faculty. Approval of the dissertation proposal, which ordinarily should occur within two semesters after successfully passing the preparatory essays, allows a student to proceed toward completion of the dissertation.

### Dissertation

The candidate must write a dissertation which demonstrates their ability to formulate a research topic and pursue independent and original investigation that contributes to the knowledge base of the field.

### Dissertation Defense

After submission of a reading copy of the dissertation to the student’s doctoral committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate’s oral remarks, the dissertation committee will vote on passing the candidate’s dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

Approval of the dissertation by the student’s doctoral committee satisfies a final requirement for the PhD degree in Information Studies from the UWM-SOIS.

### Time Limit

All components of the PhD program must be completed within seven years of matriculation.

### Additional Information for Doctoral Students

For additional information on policies and procedures for doctoral students, please see the Graduate School Doctoral Requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>) page.

## Library and Information Science, MLIS

### About the School of Information Studies

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In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

### Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers,

information systems, and related areas, according to accepted professional standards.

2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

6. To build upon current knowledge of information and communication theories and technologies in planning, design, development, and delivery of information services.

The master's degree program is designed to support each of these objectives with appropriate coursework and educational experiences.

The School of Information Studies offers students the opportunity to obtain certification from the Wisconsin Department of Public Instruction as library media specialists or school librarians. Students admitted to the Master of Library and Information Science degree program can incorporate in their degree program the courses for these licenses to the extent that these courses satisfy the degree requirements, either as required core courses or as electives. For additional information about these licenses and their relationship to the master's degree, consult the School Library Media Coordinator.

The advanced courses offered by the School of Information Studies may be selected on a non-degree basis by post-master's students who wish to continue their professional education or special competence in some phase of urban library and information services. The School's graduate courses are also open to graduate students in other fields of study, provided that they have completed the appropriate basic courses (or their equivalent).

### Coordinated Degree Programs

In cooperation with the Peck School of the Arts; the College of Health Sciences; and the College of Letters and Science, the School of Information Studies offers the following coordinated degree programs:

#### M.S./MLIS

A **Master of Science in Anthropology**/Master of Library and Information Science to prepare students for positions as curators of museum libraries and as information specialists and researchers for local history collections and state historical societies, 51 credits.

#### M.A./MLIS

A **Master of Arts in English**/Master of Library and Information Science program to prepare students for positions as humanities librarians and curators of special subject collections in the humanities, 51 credits.

#### M.A./MLIS

A **Master of Arts in Geography**/Master of Library and Information Science program to prepare students for positions as map librarians, 48 credits.

#### M.S./MLIS

A **Master of Science in Health Care Informatics**/Master of Library and Information Science program to prepare students for positions as clinical informationists, 56 credits.

#### M.A./MLIS

A **Master of Arts in History**/Master of Library and Information Science program to prepare students for positions as archivists, 48 credits.

#### MSIST/MLIS

A **Master of Science in Information Science and Technology**/Master of Library and Information Science program to prepare students for positions in information technology in all types of libraries, 54 credits.

#### MALLT/MLIS

A **Master of Arts in Language, Literature, and Translation**/Master of Library and Information Science program to prepare students for positions as librarians in a variety of libraries and curators of special subject collections, 51 credits.

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## Related Advanced Certificates

- Certificate of Advanced Study in Archives and Records Administration (p. 476)
- Certificate in Digital Libraries (p. 483)

## MLIS Program

The purpose of the MLIS program is to prepare librarians and information professionals who are able to manage change in an urbanized, technologically oriented, and knowledge-based society. The MLIS program provides a systematic course of study which enables individuals with a strong service orientation to apply principles of library and information science, use current methods and tools, and recognize the value of research.

Students may elect to specialize according to the type of library or information service which best meets their needs: i.e., school, public, academic, or special; or to follow a more generalized approach. Concentrations in archival studies, information organization, information technology, and public libraries are available.

Graduates of the Master of Library and Information Science degree program are expected to demonstrate the following competencies:

1. To apply scientific principles in developing and managing information resources designed to meet user needs and interests.
2. To analyze, describe, and organize resources for effective and efficient retrieval and dissemination of information.
3. To utilize knowledge of information sources, services, and systems to meet the informational needs of users.
4. To apply management principles in planning, developing, marketing, and evaluating library and information services.
5. To work in specialized areas of library and information service, utilizing knowledge obtained from concentrations within the School and in other disciplines.

**M.M./MLIS**

A **Master of Music**/Master of Library and Information Science program to prepare students for positions as music librarians. Students in the M.M. degree program will pursue a concentration in Music History and Literature, 54 credits.

**M.S./MLIS**

A **Master of Science in Urban Studies**/Master of Library and Information Science program to prepare students for positions as urban information specialists, 54 credits.

**M.A./MLIS**

A **Master of Arts in Women's and Gender Studies**/Master of Library and Information Science program to prepare students for positions as information specialists in institutions of higher learning, libraries, and research centers, 54 credits.

Prerequisite to the award of either degree in these coordinated programs is the simultaneous award of its counterpart degree. For additional information on these programs, see the Anthropology (<http://uwm.edu/graduateschool/anthropology/>), English (<http://uwm.edu/graduateschool/english/>), Language, Literature, and Translation (<http://uwm.edu/graduateschool/language-literature-translation/>), Geography (<http://uwm.edu/graduateschool/geography/>), Health Care Informatics (<http://uwm.edu/graduateschool/health-care-informatics/>), History (<http://uwm.edu/graduateschool/history/>), Music (<http://uwm.edu/graduateschool/music/>), Urban Studies (<http://uwm.edu/graduateschool/urban-studies/>), and Women's and Gender Studies (<http://uwm.edu/graduateschool/womens-studies/>) sections of this website.

**Admission Requirements**

**Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

**Application**

An applicant must apply to both the Graduate School and the School of Information Studies.

**Admission**

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

- Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.
- A one to two page reason statement outlining your background and your educational and professional goals.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (<http://uwm.edu/graduateschool/admission/>) Website.

**Credits and Courses**

The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

Code	Title	Credits
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Total Credits</b>		<b>12</b>

**Minimum Grade Requirement in the Required Courses**

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Materials and assignments used previously may not be reused or resubmitted when retaking a required course unless approved by the instructor. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

**Culminating Experience Requirement in Library and Information Science**

Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

**Thesis Option**

Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework

in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master's degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master's programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program's thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master's Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student's thesis advisor, but is not required to do so. It is the student's responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

### Library Media Certification Programs Requirements: 1902 License

The following SOIS courses are required for the MLIS with Library Media Certification in Wisconsin.

Code	Title	Credits
<b>Information Studies</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 520	Managing Library Collections	3
INFOST 571	Information Access and Retrieval	3
INFOST 640	Information Literacy Instruction	3
INFOST 642	School Library Media Programs and Resources	3
INFOST 644	Clinical Experience in School Libraries	2-3
INFOST 645	Library Materials for Children	3
INFOST 646	Library Materials for Young Adults	3
INFOST 647	Library Services for Children and Young Adults	3
INFOST 670	Instructional Technologies	3

INFOST 691	Special Topics in Information Science: (Cataloging for Small/School Libraries or equivalent)	1
INFOST 799	Research Methods in Information Studies	3

**Total Credits** **36-37**

This program will provide school library certification to those who hold a Wisconsin teaching license. Candidates who do not hold a teaching license must also complete post-baccalaureate education coursework and activities to earn the MLIS and school library certification. Students in states other than Wisconsin must consult with their own licensing agencies to determine whether working with our program will meet that state's licensure requirements.

## Additional Requirements

### Time Limit

Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Library and Information Science, MLIS/Anthropology, MS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### MLIS/MS Anthropology

The MLIS/MS Anthropology Coordinated Degree Program (51 credits) prepares students for positions as curators of museum libraries; and as information specialists and researchers for local history collections and state historical societies.



## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

### Degree Requirements

Students enrolled in this program concurrently pursue the MS degree in Anthropology (p. 874) (21 credits in Anthropology—9 fewer elective credits) and the MLIS degree (p. 493) (30 credits in SOIS). Candidates for the coordinated degree program will be expected to fulfill the degree requirements of both programs. Degrees will be awarded simultaneously.

## Credits and Courses

Students in the Master's degree program in Anthropology are required to take a minimum of 30 credits, some of which are obtained by taking required courses. Required courses differ by concentration (requirements for students seeking to acquire a Certificate in Museum Studies are listed on that page).

### Archaeology Concentration

Code	Title	Credits
<b>Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Methods</b>		
ANTHRO 568	Introduction to Anthropological Statistics	3
Select one of the following:		3
ANTHRO 380	Anthropological Applications of GIS	
ANTHRO 501	Archaeology of Death	
ANTHRO 525	Zooarchaeology: Analysis of Faunal Remains	
ANTHRO 535	Analysis of Archaeological Ceramics	
ANTHRO 562	Techniques and Problems in Archaeology	
ANTHRO 566	Archaeological Analysis and Report Preparation:	
ANTHRO 567	Archaeological Field School	
ANTHRO 768	Topics in Advanced Research Design in Anthropology	
Or an alternative approved by the advisor and the Director of Graduate Studies		
<b>Advanced Seminar</b>		
ANTHRO 763	Professionalism in Anthropology	3
<b>Electives</b>		

Select 12 credits	12
<b>Total Credits</b>	<b>30</b>

### Biological Anthropology Concentration

Code	Title	Credits
<b>Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Methods</b>		
ANTHRO 568	Introduction to Anthropological Statistics	3
Course approved by the advisor and the Director of Graduate Studies		3
<b>Advanced Seminar</b>		
Course approved by the advisor and the Director of Graduate Studies		3
<b>Electives</b>		
Select 12 credits		12
<b>Total Credits</b>		<b>30</b>

### Cultural Anthropology Concentration

Code	Title	Credits
<b>Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Methods</b>		
Select two of the following:		6
ANTHRO 560	Introduction to Research Methods in Anthropology	
ANTHRO 561	Techniques and Problems in Ethnography	
ANTHRO 568	Introduction to Anthropological Statistics	
<b>Advanced Seminar</b>		
ANTHRO 940	Seminar in Problems in Cultural Anthropology:	3
<b>Electives</b>		
Select 12 credits		12
<b>Total Credits</b>		<b>30</b>

Students may request a waiver for any of the above required courses except the advanced seminar. To request a waiver, a student must submit a letter to the Graduate Studies Committee. Requests must be accompanied by documentation demonstrating that the student is competent in the subject area of the course for which the waiver is sought. A waived course must be replaced by an anthropology course numbered 700 or above.

Students must maintain a B (3.0) average or better overall. The three core courses must be completed with an average of 3.0 or better. Students with a grade below a B in a core course subsequently accepted into the Ph.D. program must retake the course until they achieve a grade of B or better.

A thesis is required of all students; students may apply up to 6 credits of Research/Thesis courses toward meeting the minimum credits for the degree. The thesis must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the thesis to the Graduate School and a signed, unbound “hard” copy to the Department of Anthropology.

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

## Library and Information Science, MLIS/Art History, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

### Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

### MLIS/MA Art History

The MLIS/MA Art History Coordinated Degree Program prepares students for positions as art librarians, as curators of rare books and special collections, and as archivists, registrars, and collections managers in art museums.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Art History MA of the College of Letters and Science, and the Library and Information Science MLIS of the School of Information Studies.

## Credits and Courses

The MA in Art History normally has a minimum requirement of 30 credits from Art History courses. For the coordinated MA Art History/MLIS degree program, however, students can substitute 6 credits in Information Studies courses for 6 credits of Art History courses. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in Art History courses as specified below.

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Art History Courses

Minimum degree requirement is 24 credits in Art History, of which a minimum of 18 credits must be 700- to 900-level courses. To fulfill the Distribution Requirement, students must complete at least 3 credits in each of the following four areas 1) Ancient/Medieval, 2) Renaissance/Baroque, 3) Modern/Contemporary, and 4) Non-Western. At least 6 of these credits must be fulfilled at the 700-level or above.

Code	Title	Credits
<b>Core Courses</b>		
ARTHIST 700	Proseminar in Art History (Must be taken in the student’s first fall semester)	3
ARTHIST 891	Art Museum Internship	3
ARTHIST 990	Thesis Research	6
<b>Distribution Requirement</b>		<b>12</b>
<b>Total Credits</b>		<b>24</b>

### Important

You must refer to the catalog pages of both individual master’s programs to ensure that you meet all requirements for both degrees.

## Additional Requirements

### Thesis

A thesis, on a subject selected in consultation with the advisor. This study must demonstrate the student's ability to organize material and her/his familiarity with relevant research methods and art-historical literature. The student must pass an oral defense of the thesis.

### Language Translation Exam

The student must pass a language translation exam.

## Library and Information Science, MLIS/English, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### MLIS/MA English

The MLIS/MA English Coordinated Degree Program prepares students for positions as humanities librarians.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

## Credits and Courses

Students interested in the English MA/MLIS program are expected to follow all the requirements and standards as described in this section of the Catalog with the following exceptions: the 21 credits required for the MA in English in the coordinated degree program are to be taken

within the Department. Courses in related areas must be approved by the Director of Graduate Studies in English. For more information on this program, see the Library and Information Science page.

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

### English Courses

Students in the MA/MLIS program may subtract 9 elective credits from their chosen concentration below.

Students admitted to the master's program earn the degree by completing a minimum of 30 credits of graduate coursework in English, writing a final project, and passing an oral examination at the conclusion of their coursework.

Although students must enroll initially in one of the four plans of study described below, students who demonstrate a capacity for doctoral work, and wish to earn a Ph.D. at UWM, are advised to proceed as rapidly as possible to the PhD program. Ordinarily students are not allowed to proceed beyond 30 credits without having been admitted to the doctoral program. No more than 27 credits earned at the master's level may be included in the 54 credits required for the Ph.D.

### Plan A (Literature and Cultural Theory)

A minimum of 30 credits, including:

Code	Title	Credits
ENGLISH 703	Introduction to Graduate Studies in Literature (must be taken in first semester)	1
ENGLISH 720	Modern Literary Theory	3
Select 9 credits in literature courses (at least 3 credits pre-1800)		9
Select 3 credits in 800-level seminar in literature or cultural theory		3
Select 6 credits in cultural theory		6
Select 8 credits of electives <sup>1</sup>		8
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Which may include up to 5 credits of ENGLISH 790.

### Additional Requirements

- A final project, which shall be a paper of at least 30 pages which grows out of and significantly expands some aspect of the student's literary studies.
- An oral examination, usually lasting an hour and a half, which covers the final project and a separate 30-book reading list.

- All credits must be 600-level or above, with no more than 6 credits at the 600 level. (ENGLISH 701 must be counted as an elective.)

### Plan B (Rhetoric and Composition)

A minimum of 30 credits, including:

Code	Title	Credits
<b>Required courses</b> <sup>1</sup>		
ENGLISH 712	Theories in Public Rhetorics and Community Engagement:	3
ENGLISH 713	Research Methods in Rhetorics, Literacies, and Community Engagement:	3
ENGLISH 750	History of Rhetoric and Writing Studies:	3
<b>Select 21 credits of electives</b> <sup>2</sup>		<b>21</b>
ENGLISH 427	Writing for Nonprofits	
ENGLISH 431G	Topics in Advanced Communications:	
ENGLISH 432	The Rhetoric of Argument	
ENGLISH 439	Information Design	
ENGLISH 443	Grant Writing	
ENGLISH 444	Technical Editing	
ENGLISH 633G	Seminar in Rhetoric and Professional Writing:	
ENGLISH 701	Writing Pedagogies	
ENGLISH 711	Topics in Public and Professional Writing:	
ENGLISH 749	Advanced Internship in Writing and Community Engagement	
ENGLISH 755	Issues in Writing Research:	
ENGLISH 790	Master's Project <sup>3</sup>	
ENGLISH 854	Seminar in College Writing Pedagogy:	
ENGLISH 855	Seminar in Public Rhetorics and Community Engagement:	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> ENGLISH 712, ENGLISH 713, and ENGLISH 750 may be taken twice with different topics with the second iteration counting toward Electives.

<sup>2</sup> No more than 6 credits may be from courses below the 700 level. Students may take up to 6 credits of ENGLISH 749 and may take ENGLISH 711, ENGLISH 755, ENGLISH 854, and ENGLISH 855 up to three times with different topics.

<sup>3</sup> Electives may include up to 6 credits of ENGLISH 790. Please consult your advisor for guidance on enrolling in ENGLISH 790 and preparing for the MA project and exam.

#### Additional Requirements

- A final project, which shall be a research paper appropriate to the student's professional goals.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.

### Plan C (Creative Writing)

A minimum of 30 credits, including:

Code	Title	Credits
Select 6 credits in 600- or 700-level literature courses (at least 3 credits at the 700 level)		6
Select one of the following:		6
ENGLISH 715 & ENGLISH 815	Narrative Craft and Theory: and Seminar in Fiction Writing:	
ENGLISH 716 & ENGLISH 816	Poetic Craft and Theory: and Seminar in Poetry Writing:	
Select 6 credits in writing courses at the 600 or 700 level		6
Select 12 credits of electives <sup>1</sup>		12
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Which may include up to 6 credits of ENGLISH 790.

#### Additional Requirements

- No more than 12 credits may be earned in 600-level courses.
- A final project, which shall be a collection of fiction and/or poetry, a novel, or other substantial work of imaginative writing.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts representative of the student's literary background and interests.

### Plan H (Media, Cinema, and Digital Studies)

Code	Title	Credits
<b>Core Courses</b>		
Take 15 credits across these courses:		15
ENGLISH 742	Media Studies	
ENGLISH 743	Film Theory and Criticism (Subtitle)	
ENGLISH 876	Seminar in Media Studies:	
ENGLISH 877	Seminar in Film Studies:	
ENGLISH 887	Seminar in Digital Studies:	
<i>Proseminar (take 2 credits)</i>		2
ENGLISH 747	Proseminar in Media, Cinema, and Digital Studies	
<i>Electives: 7-12 credits electives at graduate level (can include 700 &amp; 701)</i>		7-12
<i>Master's project: 1-6 credits of English 790</i>		1-6
<b>Total credits</b>		<b>30</b>

\* If students take more elective credits, then they may take fewer credits in the master's project, or vice versa, so long as their total credits add up to 30. Students should consult the Coordinator to decide how many credits of the master's project are recommended.

## Additional Requirements

### Major Professor as Advisor

The student must have a Major Professor to advise and supervise the student's work as specified in Graduate School regulations. The coordinator of the student's concentration serves as an initial advisor.

### Final Project

A research paper or other project appropriate to the student's professional goals.

## Oral Examination

Usually lasting an hour and a half, the oral exam covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.

## Regulations Concerning Final Projects and Oral Examinations

1. Students should consult with their advisors before completing 24 credits to determine a final project. Ordinarily, it is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, critical analysis, argumentation, and prose style. For students in Plan C (Creative Writing), the project is a substantial portfolio, the exact character of which is determined in consultation with the student's MA Committee. The project serves both as a concluding effort at the master's level and also as an indication of a student's potential for doctoral study.
2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be English Graduate Faculty. The MA Examining Committee administers the final Oral Examination, covering the project and a separate reading list of at least 30 texts, to be selected by the student and approved by the Committee.
3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 27 credits at the master's level is applicable to the PhD 54 credit requirement.
4. The Examining Committee offers a recommendation regarding the student's qualifications for further graduate study at the doctoral level. The Committee Chair puts this recommendation in writing and places it in the student's academic file.
5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. No additional credits may be earned for the revision of the project after a failed examination. For further information regarding the MA project and examination, see the English Graduate Program Handbook.

## Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Library and Information Science, MLIS/Geography, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.

- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

## MLIS/MA Geography

The MLIS/MA Geography Coordinated Degree Program prepares students for positions as map librarians. Graduates of the program are qualified to assume positions as curators and staff in map collections of universities, governmental agencies, and industry.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

The MA in Geography normally has a minimum requirement of 30 credits from regular geography courses (which includes 4 capstone/thesis credits). For the coordinated MA Geography/MLIS degree program, however, students can substitute 6 credits in information studies courses for 6 credits of geography. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in Geography courses specified below.

Code	Title	Credits
GEOG 726	Geographic Information Science	4
GEOG 747	Spatial Analysis	4
GEOG 810	Introduction to Techniques of Research and Presentation	3
GEOG 870	Contemporary Geographic Approaches: (subtitle)	3
Select a GEOG 900-level course		3
Select any GEOG graduate course		3
GEOG 889 or GEOG 999	Internship in Geography or Independent Work	4
<b>Total Credits</b>		<b>24</b>

The Geography Department offers opportunities for fieldwork that may count toward these requirements. In addition to off-campus fieldwork, the American Geographical Society Collection at the UWM Golda Meir Library provides many unique opportunities for map librarianship fieldwork and is an appropriate site for an internship.

Graduates of the program are qualified to assume positions as curators and staff members in map collections of universities, governmental agencies, and industry. In cases where map collections are not of sufficient size to warrant separation as distinct collections, knowledge of how to store, classify, and retrieve maps will be a valuable set of skills that enhance the qualifications of the information professional.

**Basic Required MLIS Courses**

Code	Title	Credits
<b>Core Courses</b> <b>12</b>		
INFOST 501	Foundations of Library and Information Science	
INFOST 511	Organization of Information	
INFOST 571	Information Access and Retrieval	
INFOST 799	Research Methods in Information Studies	
<b>Other MLIS courses</b> <b>18</b>		
<b>Total Credits</b>		<b>30</b>

**Important**

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Library and Information Science, MLIS/Health Care Informatics, MS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

### Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### MLIS/MS Health Care Informatics

The MLIS/MS Health Care Informatics Coordinated Degree Program is designed to provide students with theoretical and practical exposure to the evolving field of healthcare informatics as practiced in hospitals, clinics, professional offices, corporations, the government, the insurance industry, and higher education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

Students are admitted to both graduate programs separately and admission requirements (<http://uwm.edu/graduateschool/admission/>) are consistent with those specified by the UWM Graduate School, the Health Care Informatics program, and the MLIS program of the School of Information Studies.

## Credit and Courses

Students accepted into this MS/MLIS program complete the following courses:

### Health Care Informatics

Code	Title	Credits
<b>Required HCI courses include:</b>		
HI 700	Introduction to Health Care Informatics	3
HI 722	Legal, Ethical and Social Issues in Health Care Informatics	3
HI 723	Health Care Systems Applications - Administrative and Clinical	3
HI 740	Introduction to Biomedical Database Applications	3
HI 741	Essential Programming for Health Informatics	3
HI 742	Computational Intelligence in Health Informatics	3
HI 745	Health Big Data Processing Platforms	3
PH 801	Seminar in Public Health Research	3
Select one of the following:		3
HI 890	Health Care Informatics Research and Thesis	
HI 891	Health Care Informatics Professional Project	
<b>Total Credits</b>		<b>27</b>

### Library and Information Science

Code	Title	Credits
<b>Required</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies (Culminating experience for the degree)	3
<b>MLIS Electives</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

- **Minimum Credits for MHI: 27**
- **Minimum MLIS Credits: 30**
- **Minimum Total Credits for the Program: 57**

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

## Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Additional Requirements

### Time Limit

Students in the coordinated MS/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Library and Information Science, MLIS/History, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### MLIS/MA History

The Master of Arts in History/Master of Library and Information Science program consists of 54 credits.

Graduates of the program are qualified to assume positions as archivists and staff members in libraries, museums, universities, governmental agencies, and industry. For those who pursue employment opportunities beyond archives in such institutions, knowledge of how to store, classify, and retrieve archival material will be a valuable set of skills that enhance the qualifications of the information professional.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

For the MLIS/MA in History, students complete a minimum of 54 credits total for both degrees. Within the coordinated degree program, the minimum requirement for the MA in History is 30 graduate credits, of

which 24 must be within History. By completing 30 credits of coursework in SOIS and 24 credits of coursework in History, a student can combine the MLIS with the MA in History. Thus the MLIS/MA in History may be achieved with the completion of 54 credit hours, and the MA and MLIS degrees will be awarded simultaneously.

For the History, MA: Public History, students complete a minimum of 60 credits total for both degrees. The minimum degree requirement for completing the History MA with the Public History concentration is 36 graduate credits, 12 of which must be taken in General History courses, 12 in Public History courses, and the remaining 12 in the chosen area of specialization. Within the coordinated degree program the student may complete the degree requirements for the History MA with the concentration in Public History as follows: 12 credits in General History, 12 credits in Public History, and 6 credits in approved elective courses; the remaining 6 credits of specialization are to be fulfilled within the student's 30 credits of MLIS coursework. Thus, the MLIS/MA in History may be achieved with the completion of 60 credit hours, and the MA and MLIS degrees will be awarded simultaneously.

### Library and Information Science (MLIS) coursework

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science (Core Courses)	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Electives</b>		
Select 6 credits in courses satisfying both History MA and MLIS requirements in consultation with faculty advisor		6
Select 12 additional credits in graduate SOIS courses in consultation with faculty advisor <sup>1</sup>		12
<b>Total Credits</b>		<b>30</b>

Code	Title	Credits
<b>Courses satisfying both History MA and MLIS requirements</b>		
INFOST 650G	An Introduction to Modern Archives Administration	3
INFOST 714	Metadata	3
INFOST 750	Arrangement and Description in Archives	3
INFOST 752	Archival Outreach: Programs and Services	3
INFOST 753	Preserving Information Media	3
INFOST 855	Advanced Appraisal	3

<sup>1</sup> Students pursuing the Public History option must select 6 of these credits of SOIS electives from the list of courses satisfying both the MA in History with a concentration in Public History and the MLIS. See table below under Public History.

### General History: Thesis Option

Code	Title	Credits
HIST 712 or HIST 713	Historiography and Theory of History Historical Research Methods	3

Select 6 credits in two colloquia (800-level courses) <sup>2</sup>	6
Select 6 credits in two seminars (900-level courses)	6
HIST 985 Master's Capstone	6
Select 3 credits in History electives in consultation with the student's advisor	3
<b>Total Credits</b>	<b>24</b>

### General History: Master's Essay Option

Code	Title	Credits
HIST 712	Historiography and Theory of History	3
or HIST 713	Historical Research Methods	
Select 6 credits in two colloquia (800-level courses) <sup>2</sup>		6
Select 6 credits in two seminars (900-level courses)		6
Select 9 credits in History electives in consultation with the student's advisor		9
<b>Total Credits</b>		<b>24</b>

<sup>2</sup> Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

### Public History

Code	Title	Credits
<b>General History</b>		
Select 6 credits in colloquia (800-level courses) <sup>3</sup>		6
Select 6 credits in seminars (900-level courses) <sup>3</sup>		6
<b>Public History</b>		
Students are advised to complete these two courses in the first year.		
HIST 700	Public History Seminar	3
HIST 715	Research Methods in Local History	3
Students also complete the following, generally taken at any point after the second semester.		
HIST 701	Graduate Internship in Public History <sup>4</sup>	6
Select 6 credits in History electives at the graduate level		6
Select 6 credits from among the following courses approved for both the MLIS and the MA in History: Public History (if not already taken to satisfy MLIS)		6
INFOST 650G	An Introduction to Modern Archives Administration	
INFOST 714	Metadata	
INFOST 750	Arrangement and Description in Archives	
INFOST 752	Archival Outreach: Programs and Services	
INFOST 753	Preserving Information Media	
INFOST 855	Advanced Appraisal	
<b>Total Credits</b>		<b>30</b>

<sup>3</sup> As a substitute for one colloquium or seminar, students may take 3 credits of either HIST 716 or HIST 717 or another appropriate course, which must be approved in advance by the Public History Director.

<sup>4</sup> Students must take a total of 6 credits of HIST 701, and this requirement is generally completed as two 3-credit internships. However, an individual internship may be taken for 1 to 6 credits.

Unless granted an exception by the program faculty, students complete their 701 internship(s) after having taken both HIST 700 and HIST 715.

### Approved Cross-Listed Courses

WGS 501G, with the topic "Women, Gender, & Global Revolutions," counts as a History course.

### Additional Requirements

#### General History: Thesis Option

##### Academic Review and Thesis Prospectus Hearing

Thesis Option students are subject to an academic review along with their thesis prospectus hearing. The Review and Prospectus hearing is a one- to two-hour meeting involving the student, the student's Major Professor and two other members of the History Graduate Faculty who will serve as examiners for the student's thesis defense. With the assistance of their Major Professor, the student must prepare a prospectus for the thesis in advance of the Review. The Review involves an evaluation of the student's academic progress in master's coursework, two unrevised course papers, and the thesis prospectus.

##### Thesis

The student must write a thesis that conforms to the guidelines above and as established at the thesis prospectus hearing.

##### Thesis Defense

The student must pass an oral examination in defense of the thesis.

#### General History: Master's Essay Option

##### Academic Review

Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, HIST 712, HIST 713, a colloquium and/or seminar), Master's Essay students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student's Major Professor and two other members of the History Graduate Faculty. The Review involves an evaluation of the student's academic progress in master's coursework, two unrevised course papers, and the Master's Essay.

#### Public History

Students doing the Public History option are not required to take a comprehensive exam nor write a thesis; instead, they complete the required 6 credits of HIST 701.

#### Time Limit

The student must complete all requirements for the coordinated degree within seven years of initial enrollment.

#### Important

You must refer to the catalog pages of the individual master's programs to ensure that you meet all requirements for both degrees.

## Library and Information Science, MLIS/Language, Literature, and Translation, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees



concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

## Credits and Courses

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

**Note:** The full requirements for MALLT concentrations appear below. Some electives are waived for the MLIS/MALLT program.

### Linguistics Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

Code	Title	Credits
<b>Core Seminars</b>		
Selected two of the following:		6
LINGUIS 708	Proseminar in Linguistics	
MALLT 706	Seminar in Foreign Language Methodology and Pedagogy	
CURRINS 800	Master's Seminar in Curriculum and Instruction	
PHILOS 681	Seminar in Advanced Topics: (subtitle)	
<b>Additional Requirements</b>		
LINGUIS 461	Introduction to Phonology	3
LINGUIS 464	Introduction to Syntax	3
Select three additional courses in Linguis		9
Select three additional linguistics courses in or outside the Department of Linguistics		
<b>Electives</b>		
Select 9 credits in consultation with the student's advisor <sup>1</sup>		9
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> May include up to 6 credits in MALLT 790.

### Spanish and Hispanophone Language, Literature, and Culture Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

Code	Title	Credits
Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics		6
Select at least 15 graduate credits in Spanish		15
Select three courses in related areas to give the program breadth		9
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

Students interested in the MALLT/MLIS program will be expected to follow all of the requirements and standards as described in this section of the Catalog. Nine of the 30 credits normally required for a MALLT degree will be satisfied by courses taken in SOIS. In the coordinated degree program, MALLT thesis option credits will be in addition to the 21 required MALLT credits. Courses in related areas must be approved by the Coordinator of MALLT.

- See the [MALLT](#) and MLIS (p. 493) pages for more information.

## Library and Information Science, MLIS/Music, MM

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if

they were not taken simultaneously. *All degree requirements of each component must be satisfied.*

- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

## MLIS/MM Music (Music History and Literature concentration only)

The coordinated degree program (54 credits) prepare students in the Music History and Literature concentration for positions as music librarians.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student may proceed with required graduate courses, or whether they first need to remove deficiencies.

Applicants exhibiting deficiencies in music history will be required to enroll in Graduate Music History (MUSIC 704), and those exhibiting deficiencies in music theory will be required to enroll in Graduate Theory Foundations (MUSIC 703); these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

Diagnostic examinations in both music history and music theory are required of all entering and transferring graduate students before their first semester of study at UWM. Exceptions will be granted in extenuating circumstances. In no case will students be allowed to proceed beyond the first year of graduate study without having taken the diagnostic exams. These examinations assist the faculty in determining whether the student

may proceed with required graduate courses, or whether they first need to remove deficiencies.

In addition to the application materials required by the Graduate School, those seeking admission to the Master of Music degree program must submit the following to the Director of Graduate Studies, Department of Music:

1. A Graduate Music Application (available upon request from the Department of Music, Dr. Timothy Noonan [tpnoonan@uwm.edu](mailto:tpnoonan@uwm.edu), 414-229-2286).
2. A one-page resume of the applicant's performance experience and extracurricular activities.
3. A one-page statement addressing the applicant's reasons for wishing to pursue a degree program at UWM, the applicant's career goals, and what he or she intends to do with a UWM degree.
4. Three letters of recommendation.

While prospective students are not required to submit Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores, they are strongly advised to take these tests before or early in their graduate work if they wish to be considered for a UWM Distinguished Graduate Student Fellowship or if they plan to continue their graduate work after completing a master's degree at UWM.

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate music course background must include adequate preparation in music theory demonstrated through satisfactory completion of the following or equivalent courses:

Code	Title	Credits
MUSIC 127	Materials of Theory I	2
MUSIC 128	Materials of Theory II	3
MUSIC 225	Materials of Theory III	3
MUSIC 123	Aural Theory I	1
MUSIC 124	Aural Theory II	1
MUSIC 226	Aural Theory III	1
MUSIC 230		3
MUSIC 421	Materials of Theory IV	3

2. Preparation in music history and literature must be demonstrated through satisfactory completion of a two-semester survey course in development of music from earliest times to the present plus one semester of more specialized music history.

### Additional Requirements

Applicants exhibiting deficiencies in music history will be required to enroll in MUSIC 704, and those exhibiting deficiencies in music theory will be required to enroll in MUSIC 703; these courses must be passed with a minimum grade of "B" or better. Additionally, other areas of deficiency may require further review. Graduate Music History may count toward the degree as an elective. Credits earned in making up deficiencies in music theory do not count toward the degree. The following courses are recommended to fulfill the graduate theory elective requirement: MUSIC 680, MUSIC 731, MUSIC 744.

Minimum degree requirement is 30 graduate credits, 27 of which must be in specified music areas, 3 of which may be in one of the other areas or in a related field.

Code	Title	Credits
<b>Specific Requirements</b>		
MUSIC 450	Introduction to Musicology	3
MUSIC 452	Early Music Ensemble (1 credit each for two semesters)	2
MUSIC 710	Graduate Studies in Music	3
MUSIC 711	Graduate Seminar in Music History:	3
MUSIC XXX	Graduate Theory Elective	3
MUSIC 911	Seminar In Musicology I	3
MUSIC 990	Research of Thesis	3
<b>Electives</b>		
Music History		6
Other Areas of Music		1
Select one of the following:		3-30
3 credits of General Electives (UG or G)		
30 credits in Library Science if M.M./MLIS major		
<b>Total Credits</b>		<b>30-57</b>

The program must also include:

- MUSIC 314, if not previously completed.
- Reading knowledge of German, French or Italian (see below for specific details).

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	12
INFOST 511	Organization of Information	
INFOST 571	Information Access and Retrieval	
INFOST 799	Research Methods in Information Studies	
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Library and Information Science, MLIS/Translation and Interpreting Studies, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

### Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if

they were not taken simultaneously. *All degree requirements of each component must be satisfied.*

- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

### Credits and Courses

#### Translation and Interpreting Studies Courses

Code	Title	Credits
<b>Required Translation &amp; Interpreting Studies Courses</b>		
TRNSLTN 709	Seminar in Literary and Cultural Translation	3
TRNSLTN 820	Translation Theory	3
<b>Required Non-Language specific courses</b>		
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 726	Computer-Assisted Translation	3
TRNSLTN 730	Internship in Translation/Interpreting	3
<b>Required Language-specific courses (two courses in same language pair)</b>		
TRNSLTN 706 & TRNSLTN 716	Introduction to Translation: French to English and Seminar in Advanced Translation: French to English	
TRNSLTN 708 & TRNSLTN 718	Introduction to Translation: German to English and Seminar in Advanced German Translation	
TRNSLTN 719 & TRNSLTN 729	Introduction to Translation: Russian to English and Seminar in Advanced Translation: Russian to English	
TRNSLTN 707 & TRNSLTN 717	Introduction to Translation: Spanish to English and Seminar in Advanced Translation: Spanish to English	

## Comprehensive Exam

<b>Total Credits</b>	<b>21</b>
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**Basic Required MLIS Courses**

Code	Title	Credits
<b>Required MLIS Courses</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3

<b>Electives</b>	<b>18</b>
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The 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

<b>Total Credits</b>	<b>30</b>
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## Library and Information Science, MLIS/Urban Studies, MS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

### Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### MLIS/MS Urban Studies

A Master of Science in Urban Studies/Master of Library and Information Science program to prepare students for positions as urban information specialists, 54 credits.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

Students in the MS/MLIS program follow all of the requirements and standards as described in this section of the Bulletin with the following joint exceptions: 21 of the 24 credits, including the optional 3 credits for a master's thesis, required for the Urban Studies portion of the joint degree are taken within USP. All courses in related areas and any exceptions to the 21 credit rule must be reviewed by the Coordinator of Urban Studies. All courses selected are expected to be consistent with the objectives of the Urban Studies program.

### Urban Studies

The minimum degree requirement is 30 graduate credits. All Urban Studies students are required to take a core curriculum of 15 credits:

Code	Title	Credits
Select an approved quantitative analysis course		3
URB STD 921	Seminar: Research Methods in Urban Studies	3
Select three of the following:		9
URB STD 901	Urban Social Structure	
URB STD 913	Seminar in Urban Political Process	
URB STD 945	The Internal Structure of the City	
URB STD 971	Seminar on the History of American Urban Problems	
<b>Total Credits</b>		<b>15</b>

Students may opt to enroll in URB STD 990 and earn up to 3 credits toward the MS degree for their paper/thesis research and writing.

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		<b>12</b>
INFOST 501	Foundations of Library and Information Science	
INFOST 511	Organization of Information	
INFOST 571	Information Access and Retrieval	
INFOST 799	Research Methods in Information Studies	
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Library and Information Science, MLIS/Women's and Gender Studies, MA

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

### Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if

they were not taken simultaneously. *All degree requirements of each component must be satisfied.*

- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### MLIS/MA Women's and Gender Studies

The coordinated program is designed to provide students with theoretical and practical exposure to evolving information retrieval and organization, and the field of feminist research and scholarship.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Women's and Gender Studies MA of the College of Letters and Science, and the Library and Information Science MLIS of the School of Information Studies.

## Credit and Courses

The MA in Women's and Gender Studies (WGS) normally has a minimum requirement of 30 credits from Women's and Gender Studies courses. For the coordinated MA WGS/MLIS degree program, however, students can substitute 6 credits in Information Studies for 6 credits of WGS courses. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in WGS courses as specified below.

### Women's and Gender Studies

Code	Title	Credits
<b>Required</b>		
WGS 700	Feminist Issues and Scholarship	3
WGS 701	Feminisms in Global Context	3
WGS 710	Advanced Feminist Theory	3
WGS 711	Feminist Epistemologies and Research Practices	3
WGS 740	Advanced Queer Theory	3
Select one WGS G or U/G course <sup>1</sup>		3
<b>Electives</b>		

Select 6 elective credits in WGS or WGS cross-listed courses (not SOIS), in consultation with the WGS Director of Graduate Studies. Of these electives, 3 credits may be thesis credits (WGS 990).

**Total Credits 24**

<sup>1</sup> Excluding WGS 497, WGS 700, WGS 990, WGS 999.

Total WGS credits: 24 (maximum of 6 U/G cr; and maximum 3 cr of WGS 999)

### Library and Information Science

Code	Title	Credits
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3

#### Electives

Select 18 credits in consultation with a SOIS faculty advisor. 18

**Total Credits 30**

Total MLIS Credits: 30 (min of 33 with SOIS thesis option)

**Total Credits for Coordinated Program: 54 (57 with SOIS thesis)**

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Additional Requirements

### Time Limit

Students in the coordinated MA/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Library and Information Science, MLIS: Archival Studies

### MLIS: Archives Concentration

Archival studies offers you the opportunity to investigate the processes that shape the historical record. By studying how records are selected for preservation, arranged and described, and made accessible to the public, archives students have a unique opportunity to research a field that mixes history, ethics, technology and philosophy. Through this study, you are able to research the influences that help determine how society views itself.

The Archives Program provides a range of professional development opportunities, as well as alumni and other professional connections around the country in order to ensure that you are competitive in the job market and have a well-rounded view of the complex issues facing

archives. Completion of this program provides you with a graduate degree that will help you gain employment at a variety of archives throughout the United States.

## About the School of Information Studies

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

### Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

## Related Advanced Certificates

- Certificate of Advanced Study in Archives and Records Administration (p. 476)
- Certificate in Digital Libraries (p. 483)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

An applicant must apply to both the Graduate School and the School of Information Studies.

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

- Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.
- A one to two page reason statement outlining your background and your educational and professional goals.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (<http://uwm.edu/graduateschool/admission/>) Website.

## Credits and Courses

The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

Code	Title	Credits
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Total Credits</b>		<b>12</b>

## Minimum Grade Requirement in the Required Courses

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Materials and assignments used previously may not be reused or resubmitted when retaking a required course unless approved by the instructor. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

## Culminating Experience Requirement in Library and Information Science

Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

## Thesis Option

Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master's degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master's programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program's thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master's Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student's thesis advisor, but is not required to do so. It is the student's responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from

the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

## Archives Concentration

Students pursuing the Archives Concentration must take 15 credits of coursework in archives as electives within the overall MLIS program. To pursue the Archival Studies Concentration students must be admitted into the MLIS program and must submit the Archival Studies Concentration Declaration of Intent form (see SOIS website for details). This will allow the program coordinator to track your progress and communicate with you.

The Archival Studies concentration requires 15 credits of coursework planned in consultation with the student's advisor. Credits for the concentration count as electives for the MLIS. The courses that qualify for the concentration are as follows:

Code	Title	Credits
<b>Introduction Course</b>		
INFOST 650	An Introduction to Modern Archives Administration	3
<b>Foundation Courses</b>		
Minimum of 6 credits required		6
INFOST 750	Arrangement and Description in Archives	
INFOST 752	Archival Outreach: Programs and Services	
INFOST 753	Preserving Information Media	
INFOST 855	Advanced Appraisal	
<b>Elective Courses</b>		
Maximum of 6 credits to count toward concentration		6
INFOST 640	Information Literacy Instruction	
INFOST 655	Information and Records Management:	
INFOST 656	Electronic Documents and Records Management	
INFOST 682	Digital Libraries	
INFOST 691	Special Topics in Information Science: (with appropriate subtitle)	
INFOST 714	Metadata	
INFOST 758	Technology Issues in Archives	
INFOST 759	Fieldwork in Archives and Manuscripts <sup>1</sup>	
INFOST 791	Topics in Library and Information Science: (with appropriate subtitle)	
INFOST 850	Seminar in Modern Archives Administration	
INFOST 891	Advanced Topics in Library and Information Science: (with appropriate subtitle)	
INFOST 999	Independent Research	
<b>Recommended (does not count towards concentration)</b>		
INFOST 603	History of Books and Printing	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Optional, but highly recommended for those without experience working in an archival collection.

## Additional Requirements

### Time Limit

Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

## Library and Information Science, MLIS: Information Organization

### MLIS: Information Organization Concentration

Preparing students for careers in cataloging, indexing, metadata work, or archival organization in a wide variety of settings, including libraries, archives, museums, private corporations, government agencies, and other organizations, the Information Organization (IO) Concentration provides a way for you to formally focus your studies on information organization within the context of your MLIS degree program and its requirements. The Concentration includes a mixture of theoretical and practical knowledge and skills, and will be posted on your transcript upon degree conferral.

## About the School of Information Studies

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

### Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.

8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

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## Related Advanced Certificates

- Certificate of Advanced Study in Archives and Records Administration (p. 476)
- Certificate in Digital Libraries (p. 483)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

An applicant must apply to both the Graduate School and the School of Information Studies.

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

- Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.
- A one to two page reason statement outlining your background and your educational and professional goals.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (<http://uwm.edu/graduateschool/admission/>) Website.

## Credits and Courses

The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs



if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

Code	Title	Credits
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Total Credits</b>		<b>12</b>

### Minimum Grade Requirement in the Required Courses

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Materials and assignments used previously may not be reused or resubmitted when retaking a required course unless approved by the instructor. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

### Culminating Experience Requirement in Library and Information Science

Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

### Thesis Option

Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master's degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master's programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program's thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do

not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master's Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student's thesis advisor, but is not required to do so. It is the student's responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

### Information Organization Concentration

Students pursuing the Information Organization Concentration must take 15 credits of coursework from the list of qualifying courses as electives within the overall MLIS program.

The Information Organization Concentration requires a minimum of 15 credits of coursework taken from the list of qualifying courses below. The student's concentration program must be approved by the SOIS Information Organization Curriculum Coordinator. A fieldwork experience of 1-3 credits with a focus on information organization is required of students without practical experience.

Courses that qualify for the concentration are as follows:

Code	Title	Credits
INFOST 582	Introduction to Data Science	3
INFOST 619	Topics in Information Organization: (with an IO related topic)	1-3
INFOST 712	Resource Description for Library Catalogs	3
INFOST 714	Metadata	3
INFOST 717	Information Architecture	3
INFOST 719	Advanced Topics in Information Organization (with an IO related topic. May be repeated with change in topic to 9 credits max.)	3
INFOST 750	Arrangement and Description in Archives (prereq: INFOST 650)	3
INFOST 771	Data Curation	3
INFOST 785	Database Management Systems for Information Professionals	3
INFOST 898	Master's Thesis (with an IO topic, directed by an IO faculty member)	1-3
INFOST 990	Fieldwork in Library and Information Science Services (with a focus on IO. Prereqs: all INFOST core courses and relevant IO elective courses.)	1-3
or INFOST 759	Fieldwork in Archives and Manuscripts	

## Additional Requirements

### Time Limit

Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

## Library and Information Science, MLIS: Information Technology

### MLIS: Information Technology (IT) Concentration

Emphasizing the use, implementation, management and evaluation of information technologies for a wide range of organizations, the IT concentration will prepare you to work in a diverse information technology landscape.

## About the School of Information Studies

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In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

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2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

## Related Advanced Certificates

- Certificate of Advanced Study in Archives and Records Administration (p. 476)
- Certificate in Digital Libraries (p. 483)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

An applicant must apply to both the Graduate School and the School of Information Studies.

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

- Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.
- A one to two page reason statement outlining your background and your educational and professional goals.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (<http://uwm.edu/graduateschool/admission/>) Website.

## Credits and Courses

The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements.

The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

Code	Title	Credits
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Total Credits</b>		<b>12</b>

### Minimum Grade Requirement in the Required Courses

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Materials and assignments used previously may not be reused or resubmitted when retaking a required course unless approved by the instructor. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

### Culminating Experience Requirement in Library and Information Science

Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

### Thesis Option

Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master's degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master's programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program's thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master's Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student's thesis advisor, but is not required to do so. It is the student's responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

### Information Technology (IT) Concentration

Students pursuing the IT Concentration must take 15 credits of coursework from the list of qualifying courses as electives within the overall MLIS program. To pursue the IT Concentration students must be admitted into the MLIS program and must submit the IT Concentration Declaration of Intent form (see SOIS website for details). This will allow the program coordinator to track your progress and communicate with you.

Code	Title	Credits
INFOST 547	User-Centered Interaction Design	3
INFOST 582	Introduction to Data Science	3
INFOST 583	Survey of Information Security	3
INFOST 584	Survey of Web and Mobile Content Development	3
INFOST 675	Information Technology and Organizations	3
INFOST 682	Digital Libraries	3
INFOST 685	Electronic Publishing and Web Design	3
INFOST 691	Special Topics in Information Science: (with appropriate subtitle)	1-3
INFOST 695	Ethical Hacking I	3
INFOST 697	Cisco Routing & Switching I	3
INFOST 714	Metadata	3
INFOST 717	Information Architecture	3
INFOST 774	Online Information Retrieval	3
INFOST 784	Information Security Management	3
INFOST 785	Database Management Systems for Information Professionals	3
INFOST 891	Advanced Topics in Library and Information Science: (with appropriate subtitle)	1-3

## Additional Requirements

### Time Limit

Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

# Library and Information Science, MLIS: Public Library

## MLIS: Public Library Concentration

See yourself leading an information revolution in public libraries? The Public Library Concentration prepares MLIS graduates to positively engage with the range of opportunities facing the post-modern public library: extended community involvement, incorporation of emerging technologies, and pro-active advocacy for service populations.

Public library leaders build vital, resilient communities through their understanding of user needs, community partnerships, access to information and library services, and the legal and financial frameworks of public libraries. The objective of the Public Library Concentration is to enable graduates to take strong leadership positions with sensitivity to community needs and the possibilities engendered by new media technologies.

## About the School of Information Studies

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

### Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual organizations and leadership in professional associations locally, statewide, nationally, and internationally.
8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing

education courses, workshops, and programs offered nationally and internationally.

## Related Advanced Certificates

- Certificate of Advanced Study in Archives and Records Administration (p. 476)
- Certificate in Digital Libraries (p. 483)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

An applicant must apply to both the Graduate School and the School of Information Studies.

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

- Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.
- A one to two page reason statement outlining your background and your educational and professional goals.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (<http://uwm.edu/graduateschool/admission/>) Website.

## Credits and Courses

The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for

deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

Code	Title	Credits
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Total Credits</b>		<b>12</b>

### Minimum Grade Requirement in the Required Courses

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Materials and assignments used previously may not be reused or resubmitted when retaking a required course unless approved by the instructor. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

### Culminating Experience Requirement in Library and Information Science

Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

### Thesis Option

Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master's degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master's programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program's thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master's Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student's thesis advisor, but is not required to do so. It is the student's responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

### Public Library Concentration

Students pursuing the Public Library Concentration must take 15 credits of coursework from the list of qualifying courses as electives within the overall MLIS program. To pursue the Public Library Concentration students must be admitted into the MLIS program and must submit the Public Library Concentration Declaration of Intent form (see SOIS website for details). This will allow the program coordinator to track your progress and communicate with you.

The Public Library Concentration requires 15 credits of coursework planned in consultation with the student's advisor. Credits for the concentration count as electives for the MLIS. The courses that qualify for the concentration are as follows:

Code	Title	Credits
<b>Required</b>		
INFOST 736	The Public Library	3
Select one of the following:		3
INFOST 861	Seminar in Intellectual Freedom	
INFOST 862	Legal Issues for Library and Information Managers	
INFOST 864	Critical Approaches to Public Librarianship	
<b>Electives</b>		
Select a minimum of 9 credits from the following:		9
INFOST 520	Managing Library Collections	
INFOST 524	Management of Libraries and Information Services	
INFOST 622	Information Marketing	
INFOST 637	Library Services for Young Children	
INFOST 638	Library Services for School-Aged Children	
INFOST 639	Library Services for Teens	
INFOST 640	Information Literacy Instruction	
INFOST 645	Library Materials for Children	
INFOST 646	Library Materials for Young Adults	
INFOST 660	Information Policy	
INFOST 661	Information Ethics	
INFOST 682	Digital Libraries	
INFOST 685	Electronic Publishing and Web Design	

INFOST 774	Online Information Retrieval
INFOST 999	Independent Research
<b>Total Credits</b>	<b>15</b>

## Additional Requirements

### Time Limit

Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

## Library and Information Science, MLIS: School Librarianship School Librarianship

School librarians are K-12 school leaders who facilitate the exploration of technology tools, information literacy, and current literature. SOIS offers the MLIS degree with a concentration in school librarianship which will lead to School Library Media Specialist Licensure, WI DPI License #1902.

## About the School of Information Studies

The School of Information Studies prepares students for careers in libraries and the information professions. The School's array of graduate programs provides students with the opportunity to develop attitudes associated with progressive information services, and to develop an understanding of the value, role, and application of modern technology as it relates to library operations and the transfer of information.

In harmony with the mission of the University of Wisconsin-Milwaukee, a major urban research institute, the School of Information Studies strives to make significant contributions towards extending and enhancing the quality of information services and the promotion of information and technological literacy to a diverse society. The School of Information Studies is committed to excellence in instruction, research, and service.

### Goals of the school are:

1. To prepare professionals who are able to provide leadership and adapt to change in a technological and knowledge-based environment for careers in libraries, school media centers, information systems, and related areas, according to accepted professional standards.
2. To enrich the library and information science profession through recruitment of students with strong academic skills from diverse cultural, geographic, and subject backgrounds.
3. To enable undergraduate students to achieve qualifications to pursue careers in the information professions through the provision of degree and certificate programs.
4. To enable students to develop specializations in the information professions at the graduate level through the provision of single and dual degree programs.
5. To promote a research orientation through participation in the Doctor of Philosophy degree program.
6. To contribute to the international knowledge base of library and information science through research and publication.
7. To facilitate the development, provision, and evaluation of library and information services through consultation services to individual

organizations and leadership in professional associations locally, statewide, nationally, and internationally.

8. To offer opportunities for professionals and the wider community to update their skills and knowledge through advanced and continuing education courses, workshops, and programs offered nationally and internationally.

## Related Advanced Certificates

- Certificate of Advanced Study in Archives and Records Administration (p. 476)
- Certificate in Digital Libraries (p. 483)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

An applicant must apply to both the Graduate School and the School of Information Studies.

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following additional requirements of the School of Information Studies to be considered for admission to the program:

- Applicants from foreign institutions are required to submit the Test of English as a Foreign Language (TOEFL) score. The minimum acceptable score is 550 PBT or 79 iBT. A score of 6.5 or higher on the International English Language Testing System (IELTS) may be submitted in lieu of the TOEFL.
- A one to two page reason statement outlining your background and your educational and professional goals.

No prior coursework in library/information science is required. A student whose undergraduate grade point average is below 2.75 (4.0 basis) may be considered for admission on probation. See the Admission on Probation (<http://uwm.edu/graduateschool/admission/>) Website.

Students seeking School Library Certification in the state of WI must clear a criminal background check for admission to a certification pathway.

## Credits and Courses

The minimum degree requirement is 36 graduate credits, 30 of which must be in library and information science and up to 6 of which may be in related areas. Students who have already completed a master's or doctoral degree in a field other than library science may have the library and information science master's program reduced to 30 credits. Under special circumstances, up to 6 of these credits may be from another field in a closely allied area with advisor consent. Students who have completed library science courses at the undergraduate level may, upon request, have their coursework reviewed to determine whether the content was the equivalent of that in required courses in the School of Information Studies Program. However, the establishment of such

equivalencies will not reduce the total number of credits required for the master's degree in library and information science, but merely enable the student to avoid unnecessary repetition.

The number of credits needed for each of the coordinated degree programs is 12 credits less than the sum of credits of the two programs if taken separately. All degree requirements of each component program, however, must be satisfied. This includes makeup courses for deficiencies, required courses, and graduation proficiency requirements. The MLIS component of each coordinated program includes 30 credits of SOIS courses including the 12 credits of required courses.

The following are basic required courses:

Code	Title	Credits
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Total Credits</b>		<b>12</b>

### Minimum Grade Requirement in the Required Courses

The minimum grade requirement for the required courses is a B. Students who earn a grade of B- or lower have not met the minimum requirement and will be allowed to repeat the required course once. Students are responsible for tuition in the repeated course; no credit is earned from the first attempt at the required course, or any required course for which a B- or lower is earned. Materials and assignments used previously may not be reused or resubmitted when retaking a required course unless approved by the instructor. Those who do not meet the minimum grade requirements upon repeating the course will be recommended for academic dismissal. Students may not register for a course for which any of the required courses is a prerequisite until the minimum grade requirement is met.

### Culminating Experience Requirement in Library and Information Science

Effective Fall 2016, INFOST 799 meets the requirement for the culminating event for the MLIS program. If 591 was taken prior to the fall of 2016, it can still be used to meet the culminating event requirement. Said course must be taken in SOIS and cannot be transferred into the program.

### Thesis Option

Students may choose the thesis option in order to satisfy the program requirements and must take at least three credits of thesis coursework in addition to the 36 credits required for the comprehensive examination option, making the minimum credits required for the thesis option 39 credits. However, only 3 credits of thesis coursework may count toward the total degree credit requirement of 39.

Those who already have a graduate degree must complete a minimum of 33 credits for this option. Students who choose the thesis option in the coordinated master's degree programs also need to take an additional 3 credits of thesis coursework. Thus, while total degree credits vary among the coordinated master's programs, the Master of Library and Information Science component of each requires 33 credits of SOIS coursework, three of which would be taken as thesis credit.

Students pursuing thesis options in both programs will be required to fulfill each program's thesis requirement and complete two separate theses. Students in the thesis option must take a minimum of 3 credits of research methods. A course other than INFOST 799 may be chosen in consultation with the major professor. Additional courses that do not count toward degree requirements may be required by individual circumstances.

Students must complete the required MLIS and research methods course before they will be allowed to defend the thesis proposal. Students must register for INFOST 898: Master's Thesis (1-3 credits), during every semester of thesis work. Students may select the thesis option at any point in their course of study, but are encouraged to make this decision and form their thesis committee as early as possible to avoid the necessity of taking additional coursework.

The faculty advisor assigned to each student upon admission may serve as the student's thesis advisor, but is not required to do so. It is the student's responsibility to enter into a mutually agreed upon advising relationship with a thesis advisor in SOIS, who then serves as chair of the thesis committee.

Students must pass an oral examination in defense of the thesis. The thesis defense may be repeated once. A student may withdraw from the thesis option; however, the student would need to meet all course requirements for the MLIS degree.

### School Librarianship Concentration

The School Librarian Concentration requires 15 credits of coursework planned in consultation with the student's advisor. Credits for the concentration count as electives for the MLIS. The courses that qualify for the concentration are as follows:

Code	Title	Credits
<b>Required</b>		
INFOST 642G	School Library Media Programs and Resources	3
Choose 12 credits from the following:		12
INFOST 520G	Managing Library Collections	
INFOST 611G	Cataloging for Small Libraries	
INFOST 630G	Strategies for Managing Group Learning and Assessment in Libraries	
INFOST 637G	Library Services for Young Children	
INFOST 638G	Library Services for School-Aged Children	
INFOST 639G	Library Services for Teens	
INFOST 640G	Information Literacy Instruction	
INFOST 643G	Pre-Student Teaching Experience in School Libraries	
INFOST 644G	Clinical Experience in School Libraries	
INFOST 645G	Library Materials for Children	
INFOST 646G	Library Materials for Young Adults	
INFOST 670G	Instructional Technologies	
<b>Total Credits</b>		<b>15</b>

### Additional Requirements for WI School Library Certification:

- Completion of an approved course or workshop on the history, culture, and sovereignty rights of Wisconsin Indians to fulfill the ACT 31 legislation requirement of the Wisconsin Department of Public Instruction required for certification; and

- Additional coursework to meet WI State Statutes, as designated on an individualized program plan; and
- Satisfactory completion of approved program assessment.

## Additional Requirements

### Time Limit

Students in the 36-credit program must complete all degree requirements within seven years of initial enrollment. Students in the 30-credit program must complete all degree requirements within five years of initial enrollment.

## School Librarianship, Undergraduate Certificate

UW-Milwaukee's Certificate in School Librarianship prepares candidates for the Wisconsin Department of Public Instruction Teaching License #1902, so they may serve as certified school librarians in Wisconsin K-12 school districts. School librarians serve the information needs of K-12 students, teachers, and families. In addition to being experts in library and information studies content and competencies, school librarians also have skills as teachers, guiding students in research, reading, information literacy, ethical use of information, and critical thinking.

The School Librarianship - Undergraduate Certificate is a Post-Baccalaureate program that includes pathways for both certified teachers who wish to earn the add-on licensure in school librarianship and students who are not yet certified teachers who wish to earn their initial licensure in school librarianship.

Visit the [program website](https://uwm.edu/informationstudies/academics/school-library-media-programs/) for a complete list of all pathways toward school library licensure (<https://uwm.edu/informationstudies/academics/school-library-media-programs/>).

## Requirements

Students must already hold an undergraduate degree and must have matriculated with a cumulative GPA of 2.75 or higher. Students are required to maintain a cumulative 2.75 GPA or higher throughout their certificate program as well. Specific program requirements vary depending on which pathway the student is following towards licensure, but SOIS courses and clinical work are required for every program. Per WI DPI requirements, all students must complete a successful background check through UWM to gain admission to our program. Please visit this link (<https://uwm.edu/education/students/clinical-experiences/>) to complete the check through UWM's partnership with MPS.

### We have four pathways towards school library licensure:

1. Students who are already certified teachers who want to earn their add-on licensure in school librarianship as part of their Master's in Library and Information Science (MLIS) degree. These students complete the certification requirements as part of their MLIS and will not be a part of the undergraduate certificate program.
2. Students who are already certified teachers who only want the add-on licensure in school librarianship. These students are undergraduate certificate program students for their entire course of study.
3. Students who are not yet certified teachers who will be earning their Master's in Library and Information Science (MLIS) degree, and then return as undergraduate certificate program students to complete their initial licensure in school libraries.

4. Students who are not yet certified teachers who will be earning only their initial licensure in school librarianship. These students are undergraduate certificate program students for their entire course of study.

### Pathway Course List for certified teachers who want to earn an MLIS with the 1902 school library license:

Code	Title	Credits
INFOST 501G	Foundations of Library and Information Science	3
INFOST 511G	Organization of Information	3
INFOST 571G	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
INFOST 520G	Managing Library Collections	3
INFOST 637G	Library Services for Young Children	1
INFOST 638G	Library Services for School-Aged Children	1
INFOST 639G	Library Services for Teens	1
INFOST 645G	Library Materials for Children	3
INFOST 646G	Library Materials for Young Adults	3
INFOST 642G	School Library Media Programs and Resources	3
INFOST 644G	Clinical Experience in School Libraries	2-3
INFOST 611G	Cataloging for Small Libraries	1
INFOST 640G	Information Literacy Instruction	3
INFOST 670G	Instructional Technologies	3

### Pathway Course List for students who are already certified teachers who want the add-on 1902 licensure in school librarianship:

Code	Title	Credits
INFOST 520	Managing Library Collections	3
INFOST 645	Library Materials for Children	3
INFOST 637	Library Services for Young Children	1
INFOST 638	Library Services for School-Aged Children	1
INFOST 639	Library Services for Teens	1
INFOST 646	Library Materials for Young Adults	3
INFOST 642	School Library Media Programs and Resources	3
INFOST 644	Clinical Experience in School Libraries	2-3
INFOST 611	Cataloging for Small Libraries	1
INFOST 640	Information Literacy Instruction	3
INFOST 670	Instructional Technologies	3

### Pathway Course List for students who are not yet certified teachers who will earn their Master's Degree in Library and Information Science (MLIS) degree, and then return to complete their 1902 licensure in school libraries:

Code	Title	Credits
INFOST 501G	Foundations of Library and Information Science	3
INFOST 511G	Organization of Information	3
INFOST 571G	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3



INFOST 520G	Managing Library Collections	3
INFOST 645G	Library Materials for Children	3
INFOST 637G	Library Services for Young Children	1
INFOST 638G	Library Services for School-Aged Children	1
INFOST 639G	Library Services for Teens	1
INFOST 646G	Library Materials for Young Adults	3
INFOST 642G	School Library Media Programs and Resources	3
INFOST 640G	Information Literacy Instruction	3
INFOST 670G	Instructional Technologies	3
ED PSY 640G	Human Development: Theory and Research	3
INFOST 643	Pre-Student Teaching Experience in School Libraries	1-3
INFOST 611	Cataloging for Small Libraries	1
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
INFOST 630G	Strategies for Managing Group Learning and Assessment in Libraries	3
EXCEDUC 600	Survey of Exceptional Education	3
INFOST 543	Student Teaching Experience in School Libraries	6

**Pathway Course List for students who are not yet certified teachers who will be earning only their 1902 license in school librarianship:**

Code	Title	Credits
INFOST 520	Managing Library Collections	3
INFOST 645	Library Materials for Children	3
INFOST 646	Library Materials for Young Adults	3
INFOST 642	School Library Media Programs and Resources	3
INFOST 640	Information Literacy Instruction	3
INFOST 670	Instructional Technologies	3
INFOST 611	Cataloging for Small Libraries	1
INFOST 637	Library Services for Young Children	1
INFOST 638	Library Services for School-Aged Children	1
INFOST 639	Library Services for Teens	1
INFOST 643	Pre-Student Teaching Experience in School Libraries	1-3
CURRINS 545	Reading in the Content Areas: Middle, Junior, and Senior High School	3
INFOST 630	Strategies for Managing Group Learning and Assessment in Libraries	3
ED PSY 640	Human Development: Theory and Research	3
EXCEDUC 600	Survey of Exceptional Education	3
INFOST 543	Student Teaching Experience in School Libraries	6

Additionally, all non-certified students need to complete the School of Education Seminar on Act31: History, Culture, and Sovereignty Rights of Wisconsin Native Americans (1 day, continuing education, no credit).

## Advising

Please contact our School Library Coordinator for further information:

Susan Hersh, MLIS: shersh@uwm.edu  
 School Library Media Coordinator/Senior Lecturer  
 University of Wisconsin-Milwaukee  
 School of Information Studies, NWQB 3489,  
 2025 E. Newport Ave. Milwaukee, WI 53211  
 (414) 229-2474

## Social Welfare (Helen Bader School of)

The Helen Bader School of Social Welfare offers programs to educate students about social policies and programs, and to train them for beginning level practice in a variety of professional roles in social work and criminal justice. Its location in metropolitan Milwaukee gives students numerous opportunities to gain practical experience in social, health, educational, or criminal justice agencies.

Undergraduate majors in both social work and criminal justice & criminology lead to the Bachelor of Science degree, and are designed to prepare students for available entry-level positions in their respective fields. These programs also provide excellent preparation for graduate work.

The School also offers graduate programs at the master's degree level in both criminal justice and social work.

## Degree Programs

**Bachelor of Science** Criminal Justice & Criminology, Social Work

**Master of Science** Criminal Justice & Criminology

**Master of Social Work**

**Doctor of Philosophy** Social Welfare

## Departments and Programs

- Criminal Justice and Criminology (p. 523)
  - Crime Analysis, Undergraduate Certificate (p. 523)
  - Criminal Justice and Criminology, BS (p. 524)
  - Criminal Justice and Criminology, BS: Crime Analysis (p. 526)
  - Criminal Justice and Criminology, Minor (p. 528)
  - Criminal Justice and Criminology, MS (p. 528)
  - Criminal Justice and Criminology, MS/Public Administration, MPA (p. 529)
  - Criminal Justice and Criminology, MS/Social Welfare, PhD (p. 530)
  - Criminal Justice and Criminology, MS/Social Work, MSW (p. 532)
  - Criminal Justice and Criminology, MS: Crime Analytics (p. 533)
  - Cyber Crime Forensics, Graduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 535)
  - Death Investigation, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 536)
  - Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 536)

- Forensic Toxicology, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 537)
- Military Science (p. 538)
- Social Work (p. 540)
  - Aging, Minor (p. 541)
  - Applied Gerontology, Graduate Certificate (p. 541)
  - Social Welfare, PhD (p. 543)
  - Social Welfare, PhD/Criminal Justice and Criminology, MS (p. 545)
  - Social Work, BS (p. 547)
  - Social Work, MSW (p. 549)
  - Social Work, MSW/Criminal Justice and Criminology, MS (p. 551)
  - Social Work, MSW/Public Health, MPH (p. 552)
  - Social Work, MSW/Social Welfare, PhD (p. 554)
  - Social Work, MSW/Women's and Gender Studies, MA (p. 556)
  - Suicide Prevention Across the Lifespan, Undergraduate Microcredential (p. 558)
- Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 558)

## Graduate Admission Requirements

Each graduate program has admission requirements in addition to the general Graduate School admission requirements. Refer to Graduate Admissions and Cost (p. 20) for the graduate school's admission requirements, and to the specific program for the program's admission requirements.

## Undergraduate Admission

### Freshmen

Freshmen entering UWM who indicate an interest in criminal justice & criminology or social work are admitted directly into the Helen Bader School of Social Welfare, and are designated criminal justice & criminology or social work majors.

Admission to the University does not guarantee enrollment in the social work major; a separate application will be required to advance in the major.

### Transfer Students

Transfer students who transfer from outside UWM to criminal justice & criminology or social work become criminal justice & criminology or social work intended majors upon admission regardless of the number of credits they transfer. They can apply for admission to the major when they have at least junior standing and have completed one full-time semester or the equivalent at UWM.

### Second Bachelor's Degree Students

Second bachelor's degree students applying to the University who already hold one bachelor's degree and who wish to pursue a second degree in either criminal justice & criminology or social work are directly admitted and social work majors must submit a separate application to advance in the major. They must complete at least 30 credits at UWM beyond the credits that counted toward the first degree, and must satisfy the same degree and curriculum requirements as students working towards a first degree in the same major.

Special students in the Helen Bader School of Social Welfare and University special students are permitted to register in any undergraduate course offered by the School, provided they meet the stated prerequisites or are admitted to the course by the instructor.

## Requirements for Employment, Licensing, or Professional Organizations

Effective October 1, 1998, changes in Chapters 48 (Children's Code) and 50 (Uniform Licensure) of the Wisconsin State Statutes make it a requirement for selected organizations to perform rigorous background checks of persons who provide care for vulnerable adults and children or who have access to people who receive such care.

The results of these background checks are intended to help employers and government officials in making employment and licensing decisions. The law affects anyone who is employed as a caregiver or who has access to clients within caregiving organizations, **including students**. The organizations required to perform these background checks are those that are regulated by the State Department of Health and Family Services (DHFS).

The law means that if you are going to train (including a field or clinical placement) or work in an agency providing care to vulnerable adults or children, and that agency is regulated by DHFS, a background check will be required of you. A background check may be required even if you do not have direct caregiving responsibilities to clients. Depending on the circumstances, a student may be disqualified from field placement in certain agencies as a result of this law. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly.

## Graduate Policies and Regulations

The Graduate School policies and regulations can be found at Graduate School Policies (p. 31). Please refer to the specific program for program policies and regulations.

## Undergraduate Policies and Regulations

### Academic Regulations

For information on actions on unsatisfactory grades and honors for scholarship, see Academic Policies (p. 22).

### Semester Course Load

Registration for more than 18 credits in a given semester requires the advisor's permission. For students in the School's majors, this permission will be given upon advice of the appropriate program chair.

### Change in Requirements

If curriculum requirements are changed after the student has been formally accepted in the major, the student is free to remain with the former requirements or to follow the new ones.

## Administration

**Tina Freiburger**

Dean

**Lisa Berger**

Associate Dean

**Dimitri Topitzes**

Chair, Social Work Department

**Amy Kirby**  
Coordinator, Graduate Social Work Program

**Matt Steigerwald**  
Coordinator, Undergraduate Social Work Program

**Danielle Romain Dagenhardt**  
Chair, Department of Criminal Justice & Criminology

**Alyssa Sheeran**  
Coordinator, Graduate Criminal Justice & Criminology Program

## Contact Information

**Student Services**  
Enderis Hall, 10th Floor

<http://uwm.edu/socialwelfare/>

## Criminal Justice and Criminology

Study the criminal justice system through legal and political lenses, examining the nature, causes and impact of crime. Students learn through courses taught by experienced faculty, and in fieldwork opportunities, to improve their listening, speaking, writing, analytical and

evaluative skills. They graduate prepared to work in law enforcement, corrections and the courts.

## Programs

- Crime Analysis, Undergraduate Certificate (p. 523)
- Criminal Justice and Criminology, BS (p. 524)
- Criminal Justice and Criminology, BS: Crime Analysis (p. 526)
- Criminal Justice and Criminology, Minor (p. 528)
- Criminal Justice and Criminology, MS (p. 528)
- Criminal Justice and Criminology, MS/Public Administration, MPA (p. 529)
- Criminal Justice and Criminology, MS/Social Welfare, PhD (p. 530)
- Criminal Justice and Criminology, MS/Social Work, MSW (p. 532)
- Criminal Justice and Criminology, MS: Crime Analytics (p. 533)
- Cyber Crime Forensics, Graduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 535)
- Death Investigation, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 536)
- Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 536)
- Forensic Toxicology, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice) (p. 537)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Steven G. Brandl	Professor Emeritus	PhD	Michigan State University		✓
Ruben Burgos	Senior Lecturer				
Danielle Romain Dagenhardt	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	
Tina Freiburger	Dean and Professor	PhD	Indiana University of Pennsylvania	✓	
Travis Guy	Lecturer				
Kimberly Hassell	Associate Professor	PhD	University of Nebraska-Omaha	✓	
Rebecca Konkel	Associate Professor	PhD	Georgia State University	✓	
Thomas LeBel	Associate Professor	PhD	SUNY - Albany	✓	
Theodore Lentz	Assistant Professor	PhD	University of Missouri-St. Louis	✓	
Leon Sawh	Visiting Professor	PhD, MPH	University of Massachusetts-Lowell		
Alyssa Sheeran	Assistant Professor	PhD	University of Wisconsin-Milwaukee	✓	
Stan Stojkovic	Professor Emeritus	PhD	Michigan State University		✓

## Crime Analysis, Undergraduate Certificate

The Department of Criminal Justice & Criminology offers a specialization, a minor, and a post-baccalaureate certificate in Crime Analysis. Crime analysts gather crime and disorder data, identify and analyze patterns, trends and problems, develop recommendations based on their findings, and create and disseminate information that helps criminal justice agencies address crime and allocate resources.

A sequence of courses will lead to a specialization in this growing area. Preparation includes a foundation in criminal justice and research methods; specialized coursework in crime analysis, analysis-oriented

technology, and data-driven policing; and field placement in an agency setting with practicing professionals.

## Requirements

The Certificate in Crime Analysis is designed for students who already have a bachelor's degree in any field and consists of 21 credits, with the following courses (or equivalents) required:

Code	Title	Credits
CRM JST 110	Introduction to Criminal Justice	3
INFOST 110	Introduction to Information Science and Technology	3
or INFOST 120	Information Technology Ethics	
CRM JST 480	Criminal Evidence and Investigation	3

CRM JST 510	Introduction to Crime Analysis	3
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS	3
CRM JST 530	Data Driven Policing Strategies and Police Intelligence	3
CRM JST 311	Field Experience Practicum	3

**Total Credits** 21

Students must complete all coursework within the sequence. A minimum of 15 credits must be taken in residence at UWM.

## Contact Information

### Criminal Justice Department

Enderis Hall, 1110  
2400 E Hartford Ave.

<http://uwm.edu/socialwelfare/academics/crime-analytics/>

## Criminal Justice and Criminology, BS

Study in the field of criminal justice examines the component parts of criminal justice – police, courts, and corrections – and seeks to gain an understanding of the interdependencies among them. Courses emphasize the role of criminal justice agencies in society, particularly in relation to the impact of alternative criminal justice policies on society and social problems. The program prepares students as generalists in criminal justice and is well suited for those who want to pursue graduate work in criminal justice, law, public administration, and the social sciences.

Thousands of our graduates have gone on to careers with the public sector, private sector and non-profit organizations, including jobs such as FBI agent, intelligence analyst, police officer, evidence technician, border patrol agent, computer security expert, probation officer, customs inspector, and private investigator.

## Requirements

Code	Title	Credits
General Curriculum Requirements (p. 524)		33
Major Requirements (p. 524)		45
General Electives (p. 525)		42
<b>Total Credits</b>		<b>120</b>

## General Curriculum Requirements

For courses that satisfy the distribution requirements in humanities, natural science, and social science, see the GER listing in the current Timetable (<https://catalog.uwm.edu/course-search/>). The UWM General Education Requirements (p. 30) apply to all students who were not enrolled in an accredited institution prior to 1986.

Code	Title	Credits
<b>English</b>		
Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.		
<b>Mathematics</b>		
Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.		
<b>Liberal Arts Foundation</b>		

### UWM Foreign Language Requirement

Completion of two years of high school-level instruction in a single foreign language, or satisfactory completion of at least two semesters of a single foreign language, or approved demonstration of foreign language ability

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

#### Arts

Select 3 credits of General Education-approved arts course in the history, philosophy, theory, or practice of the creative and interpretive arts 3

#### Humanities

COMMUN 103 Public Speaking 3

Select 3 credits of General Education-approved humanities courses 3

#### Natural Science

Select 6 credits of General Education-approved natural science courses to include a lab or field course 6

#### Social Science

Select 6 credits of General Education-approved social science courses 6

**Total Credits** 21

## Major Requirements

Criminal justice intended majors spend their first two years building a liberal arts foundation and fulfilling proficiency requirements. Freshmen and sophomores may begin to take courses offered in the Helen Bader School of Social Welfare.

Students must complete at least 120 credits to obtain the degree. The major in criminal justice requires a minimum of 45 credits in required courses and electives. The Department requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work, to meet graduation requirements.

Code	Title	Credits
<b>Required Courses</b>		
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 271	Introduction to Policing	3
CRM JST 273	Introduction to Corrections	3
CRM JST 275	Introduction to Criminal Courts	3
CRM JST 305	Criminological Theory and Policy	3
CRM JST 310	Race, Crime, and Criminal Justice	3
CRM JST 662	Methods of Social Welfare Research	3
CRM JST 663	Criminal Justice Capstone Seminar	3
SOCIOL 261	Introduction to Statistical Thinking in Sociology	3
or INFOST 370	Data Analysis and Visualization for the Information Professional	

### Criminal Justice Electives

Select 18 credits <sup>1</sup> 18

### Fieldwork

Complete up to 6 credits <sup>2</sup>	0-6
<b>Total Credits</b>	<b>45</b>

<sup>1</sup> SOC WRK 100 and SOC WRK 306 count as electives in the criminal justice major.

<sup>2</sup> Upon approval of the Criminal Justice Field Coordinator, the student may earn up to 6 credits of Criminal Justice electives for authorized field placements with various criminal justice agencies including police departments, court-related agencies, and correctional institutions.

## General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		
ENGLISH 100	Introduction to College Writing and Reading	4
ENGLISH 101	Introduction to College Writing	3
ENGLISH 102	College Writing and Research	3
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
Foreign Language credits		
<b>Total Credits</b>		<b>54</b>

Credits earned in HONORS 687 or HONORS 689 will not count towards the major.

## Degree Requirements

An overall GPA (including non-UWM college work) of 2.0 and a total of 120 credits are needed for graduation. To receive the bachelor's degree with a criminal justice major, the student must complete at least 30 degree credits at UWM. At least 50% of the credits required for the Criminal Justice major must be earned at UWM.

## Undergraduate Academic Advising

The Office of Student Services in the Helen Bader School of Social Welfare, located in the Northwest Quadrant Building D 3rd Floor, offers undergraduate student academic advising from professional advisors who are familiar with the Social Work and Criminal Justice & Criminology curriculum, College requirements, and university policies. Advisors can also provide information on scholarship opportunities, tutoring, and student organizations that align with a student's interests.

These advisors provide services such as new freshman orientation, course selection, assistance with registration, and review of transfer credit. Students are assigned to a permanent professional advisor upon admittance into the Helen Bader School of Social Welfare and are encouraged to meet with their academic advisor at least once each semester. Please call (414) 229-4852 to schedule an appointment or for more information.

## Transfer Students

The Helen Bader School of Social Welfare welcomes students from other academic areas on the UWM campus and students transferring to UWM

from other institutions. Students planning to transfer into either major from another institution should meet with an academic advisor as soon as they are admitted and the transfer credit evaluation process has been completed. During this meeting, the student and advisor will review transfer course equivalencies, discuss program requirements, and create an academic plan for coming semesters. Students may meet with their advisor in person or by phone. Please call (414) 229-4852 to schedule an appointment or for more information.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or above in all major courses taken in residence at UWM. A minimum of 28 Social Work credits or 24 Criminal Justice credits completed in residence are needed to be considered for Honors in the Major.

## High Honors in the Major

High Honors in the Major is granted to students who have earned a GPA of 3.750 or above in all major courses taken in residence at UWM. A minimum of 28 Social Work credits or 24 Criminal Justice credits completed in residence are needed to be considered for Honors in the Major.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Contact Information

**Office of Student Services**  
Enderis Hall, 1110  
2400 E Hartford Ave.

## Criminal Justice and Criminology, BS: Crime Analysis

Study in the field of criminal justice examines the component parts of criminal justice – police, courts, and corrections – and seeks to gain an understanding of the interdependencies among them. Courses emphasize the role of criminal justice agencies in society, particularly in relation to the impact of alternative criminal justice policies on society and social problems. The program prepares students as generalists in criminal justice and is well suited for those who want to pursue graduate work in criminal justice, law, public administration, and the social sciences.

Thousands of our graduates have gone on to careers with the public sector, private sector and non-profit organizations, including jobs such as FBI agent, intelligence analyst, police officer, evidence technician, border patrol agent, computer security expert, probation officer, customs inspector, and private investigator.

The Department of Criminal Justice & Criminology offers a specialization, a minor, and a post-baccalaureate certificate in Crime Analysis. Crime analysts gather crime and disorder data, identify and analyze patterns, trends and problems, develop recommendations based on their findings, and create and disseminate information that helps criminal justice agencies address crime and allocate resources.

A sequence of courses will lead to a specialization in this growing area. Preparation includes a foundation in criminal justice and research methods; specialized coursework in crime analysis, analysis-oriented technology, and data-driven policing; and field placement in an agency setting with practicing professionals.

### Requirements

Code	Title	Credits
	General Curriculum Requirements (p. 526)	33
	Major Requirements (p. 526)	45
	General Electives (p. 527)	42
<b>Total Credits</b>		<b>120</b>

### General Curriculum Requirements

For courses that satisfy the distribution requirements in humanities, natural science, and social science, see the GER listing in the current Timetable (<https://catalog.uwm.edu/course-search/>). The UWM General Education Requirements (p. 30) apply to all students who were not enrolled in an accredited institution prior to 1986.

Code	Title	Credits
<b>English</b>		
Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.		
<b>Mathematics</b>		
Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.		
<b>Liberal Arts Foundation</b>		
<i>UWM Foreign Language Requirement</i>		

Completion of two years of high school-level instruction in a single foreign language, or satisfactory completion of at least two semesters of a single foreign language, or approved demonstration of foreign language ability

#### *UWM Cultural Diversity Requirement*

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

#### *Arts*

Select 3 credits of General Education-approved arts course in the history, philosophy, theory, or practice of the creative and interpretive arts 3

#### *Humanities*

COMMUN 103 Public Speaking 3

Select 3 credits of General Education-approved humanities courses 3

#### *Natural Science*

Select 6 credits of General Education-approved natural science courses to include a lab or field course 6

#### *Social Science*

Select 6 credits of General Education-approved social science courses 6

**Total Credits** 21

### Major Requirements

Criminal justice intended majors spend their first two years building a liberal arts foundation and fulfilling proficiency requirements. Freshmen and sophomores may begin to take courses offered in the Helen Bader School of Social Welfare.

Students must complete at least 120 credits to obtain the degree. The major in criminal justice requires a minimum of 45 credits in required courses and electives. The Department requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work, to meet graduation requirements.

Code	Title	Credits
<b>Required Courses</b>		
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 271	Introduction to Policing	3
CRM JST 273	Introduction to Corrections	3
CRM JST 275	Introduction to Criminal Courts	3
CRM JST 305	Criminological Theory and Policy	3
CRM JST 310	Race, Crime, and Criminal Justice	3
CRM JST 662	Methods of Social Welfare Research	3
CRM JST 663	Criminal Justice Capstone Seminar	3
SOCIOL 261	Introduction to Statistical Thinking in Sociology	3
or INFOST 370	Data Analysis and Visualization for the Information Professional	

#### **Criminal Justice Electives**

Select 18 credits <sup>1</sup> 18

#### **Fieldwork**

Complete up to 6 credits <sup>2</sup> 0-6

**Total Credits** 45

- <sup>1</sup> SOC WRK 100 and SOC WRK 306 count as electives in the criminal justice major.
- <sup>2</sup> Upon approval of the Criminal Justice Field Coordinator, the student may earn up to 6 credits of Criminal Justice electives for authorized field placements with various criminal justice agencies including police departments, court-related agencies, and correctional institutions.

### General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		
ENGLISH 100	Introduction to College Writing and Reading	4
ENGLISH 101	Introduction to College Writing	3
ENGLISH 102	College Writing and Research	3
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
Foreign Language credits		
<b>Total Credits</b>		<b>54</b>

Credits earned in HONORS 687 or HONORS 689 will not count towards the major.

### Degree Requirements

An overall GPA (including non-UWM college work) of 2.0 and a total of 120 credits are needed for graduation. To receive the bachelor’s degree with a criminal justice major, the student must complete at least 30 degree credits at UWM. At least 50% of the credits required for the Criminal Justice major must be earned at UWM.

### Specialization in Crime Analysis

The specialization in Crime Analysis is designed for students completing their major in Criminal Justice and consists of 18 credits, with the following courses (or equivalents) required:

Code	Title	Credits
INFOST 110	Introduction to Information Science and Technology	3
or INFOST 120	Information Technology Ethics	
CRM JST 480	Criminal Evidence and Investigation	3
CRM JST 510	Introduction to Crime Analysis	3
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS	3
CRM JST 530	Data Driven Policing Strategies and Police Intelligence	3
CRM JST 311	Field Experience Practicum	3
<b>Total Credits</b>		<b>18</b>

Students must complete all coursework within the sequence. A minimum of 15 credits must be taken in residence at UWM.

## Undergraduate Academic Advising

The Office of Student Services in the Helen Bader School of Social Welfare, located in the Northwest Quadrant Building D 3rd Floor, offers undergraduate student academic advising from professional advisors who are familiar with the Social Work and Criminal Justice & Criminology curriculum, College requirements, and university policies. Advisors can also provide information on scholarship opportunities, tutoring, and student organizations that align with a student’s interests.

These advisors provide services such as new freshman orientation, course selection, assistance with registration, and review of transfer credit. Students are assigned to a permanent professional advisor upon admittance into the Helen Bader School of Social Welfare and are encouraged to meet with their academic advisor at least once each semester. Please call (414) 229-4852 to schedule an appointment or for more information.

### Transfer Students

The Helen Bader School of Social Welfare welcomes students from other academic areas on the UWM campus and students transferring to UWM from other institutions. Students planning to transfer into either major from another institution should meet with an academic advisor as soon as they are admitted and the transfer credit evaluation process has been completed. During this meeting, the student and advisor will review transfer course equivalencies, discuss program requirements, and create an academic plan for coming semesters. Students may meet with their advisor in person or by phone. Please call (414) 229-4852 to schedule an appointment or for more information.

### Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or above in all major courses taken in residence at UWM. A minimum of 28 Social Work credits or 24 Criminal Justice credits completed in residence are needed to be considered for Honors in the Major.

### High Honors in the Major

High Honors in the Major is granted to students who have earned a GPA of 3.750 or above in all major courses taken in residence at UWM. A minimum of 28 Social Work credits or 24 Criminal Justice credits completed in residence are needed to be considered for Honors in the Major.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student’s GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold

cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Contact Information

**Office of Student Services**  
Enderis Hall, 1110  
2400 E Hartford Ave.

## Criminal Justice and Criminology, Minor

The minor in criminal justice is a strong complement for students studying journalism, politics, sociology, social work, political science, or philosophy; students who plan on attending law school; and students who seek careers in public service.

The Department of Criminal Justice & Criminology offers a specialization, a minor, and a post-baccalaureate certificate in Crime Analysis. Crime analysts gather crime and disorder data, identify and analyze patterns, trends and problems, develop recommendations based on their findings, and create and disseminate information that helps criminal justice agencies address crime and allocate resources.

A sequence of courses will lead to a specialization in this growing area. Preparation includes a foundation in criminal justice and research methods; specialized coursework in crime analysis, analysis-oriented technology, and data-driven policing; and field placement in an agency setting with practicing professionals.

## Requirements

### Standard Track

The standard minor track requires a minimum of 18 credits in criminal justice & criminology courses:

Code	Title	Credits
<b>Required</b>		
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 271	Introduction to Policing	3
CRM JST 273	Introduction to Corrections	3
CRM JST 275	Introduction to Criminal Courts	3
<b>Electives</b>		
Select 6 credits in courses at the 300 level or above		6
<b>Total Credits</b>		<b>18</b>

Credits earned in CRM JST 311 and CRM JST 599 do not count toward the minimum number of credits required for the standard minor track.

### Crime Analysis Track

The crime analysis minor track consists of 18 credits, with the following courses (or equivalents approved by the department chairperson) required:

Code	Title	Credits
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3
CRM JST 510	Introduction to Crime Analysis	3
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS	3
CRM JST 530	Data Driven Policing Strategies and Police Intelligence	3
CRM JST 311	Field Experience Practicum	3
<b>Total Credits</b>		<b>18</b>

A minimum of 15 credits must be taken in residence at UWM.

## Criminal Justice and Criminology, MS

The School of Social Welfare offers a master's program of study in criminal justice and criminology. The program is designed to educate students for leadership positions in the field of criminal justice. The program also provides a strong foundation for students anticipating advanced study at the doctoral level. The curriculum is also designed to prepare Criminal Justice professionals to understand all aspects of criminal justice policy. Legal, organizational, political and behavioral frameworks are used to analyze the operation of the criminal justice system. Students are introduced to advanced knowledge on the nature and causes of crime, the justification and means of social control, the administration of the justice system, and the evaluation of criminal justice programs.

## Requirements

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

An applicant must meet all Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program-specific requirements to be considered for admission:

- Undergraduate degree from an accredited university in criminal justice, a related social science, or other relevant educational background.
- Undergraduate cumulative grade point average (GPA) of 3.00.
- In addition, applicants with an undergraduate cumulative GPA between 2.75-2.99 may be considered for admission, but should address their lower cumulative GPA within their reason statement.
- Two letters of recommendation from persons who are familiar with the applicant's academic record and suitability for graduate work.
- It is recommended that applicants have completed a research methods course and a statistics course at the undergraduate level prior to beginning the program.
- Applicants must also submit a brief narrative statement indicating reasons for interest in graduate study.



## Application

Application must be made to the Graduate School. Applicants may be admitted to the program for Fall, Spring or Summer (note graduate course offerings are currently limited in the summer session). For further information regarding the application process, please contact the Criminal Justice & Criminology Department office at (414) 229-2392.

## Credits and Courses

The Master of Science in Criminal Justice consists of a minimum of 33 graduate credits:

Code	Title	Credits
Courses taken within the Criminal Justice program (27 credits)		
Must include 15 credits of:		
CRM JST 713	Measuring Crime & Analyzing Crime Data	3
CRM JST 743	Proseminar: Administration of Criminal Justice Systems	3
CRM JST 756	Proseminar: Analysis of Criminal Justice Research	3
CRM JST 773	Criminological Perspectives	3
CRM JST 920	Criminal Justice Masters Capstone Seminar	3
Select an additional 12 credits of Criminal Justice Electives (4 courses)		12
Select an additional 6 credit hours taken elsewhere in the School of Social Welfare or in other UWM departments with the prior consent of advisor.		6
<b>Total Credits</b>		<b>33</b>

The student must pursue either Option A: Essay Option, or Capstone Option B: Non-Essay Option described below.

### Option A: Essay Option

Students must complete the required proseminars and, as part of the 33 graduate credits required, must complete 3 credits of research and a graduate-level statistics course approved by the student's faculty advisor. Students planning to go into doctoral programs are strongly encouraged to pursue the essay option.

#### Essay

An acceptable essay must be written on the student's area of concentration.

#### Comprehensive Examination

The student must pass a final oral examination in defense of the essay.

### Option B: Non-Essay Option

Students must complete the 33 graduate credits required, including the three proseminars and the criminal justice capstone seminar course.

## Additional Requirements

### Major Professor as Advisor

The student must have a faculty advisor to advise and supervise the student's studies as specified in Graduate School regulations. At the time of admission, the Graduate Program Director will assign each student to a faculty advisor. Students who begin to work closely with a particular faculty member with expertise in their area of interest may request that this faculty member serve as their advisor. Students who pursue the

Essay Option must choose a faculty member to serve as their major professor.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Criminal Justice and Criminology, MS/Public Administration, MPA

Both departments collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice.

## Requirements

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice & Criminology and the MPA program.

## Credits and Courses

Students accepted into this MS/MPA program complete the following courses:

### MS in Criminal Justice & Criminology

Code	Title	Credits
<b>Required</b>		
CRM JST 773	Criminological Perspectives	3
CRM JST 743	Proseminar: Administration of Criminal Justice Systems	3
CRM JST 756	Proseminar: Analysis of Criminal Justice Research	3
<b>Electives</b>		
Select 12 additional credits within the criminal justice & criminology program		12
Select 12 additional credits with the consent of the student's advisor		12
<b>Total Credits</b>		<b>33</b>

### Master of Public Administration

Students entering the MPA program will be placed, at the discretion of the MPA Director in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A and 42 for Track B.

**Track A**

Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have PUB ADM 921 waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

**Track B**

Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

Code	Title	Credits
<b>Required Core</b>		
BUS ADM 738	Human Resource Management	3
PUB ADM 763	Scope and Dynamics of Public Administration	3
PUB ADM 769	Analyzing and Evaluating Public Policies and Programs	3
Select one of the following:		3
BUSMGMT 709	Predictive Analytics for Managers	
PUB ADM 792	Decision-Making for Nonprofit and Public Organizations	
CRM JST 756	Proseminar: Analysis of Criminal Justice Research	
Select one of the following:		3
BUS ADM 441	Diversity in Organizations	
BUS ADM 443	Special Topics in Human Resources Management:	
BUS ADM 737	Managerial Decisions and Negotiations	
<b>Capstone</b>		
PUB ADM 959	Capstone Seminar in Public Administration <sup>1</sup>	3
<b>General Public Administration</b>		
Select three of the following:		9
BUSMGMT 724	Accounting for Nonprofit Organizations	
PUB ADM 400	Ethics and Responsibility in Public Administration	
PUB ADM/URBPLAN 630	Budgeting and Finance in the Public Sector	
PUB ADM 750	Public Administration Risk and Analysis	
PUB ADM/POL SCI 914	Seminar in Intergovernment Relations	
PUB ADM 958	Seminar in Public Administration:	
PUB ADM 965	Municipal Management	
<b>Concentration</b>		
Select 12 credits in CRM JST		12
<b>Internship</b>		
PUB ADM 921	Public Service Administrative Internship <sup>2</sup>	3
<b>Total Credits</b>		<b>42</b>

the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

<sup>2</sup> An internship is mandatory for students with no public sector work experience.

**Total Degree Credits for Master of Public Administration: 48-51 cr**

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

**Additional Requirements****Time Limit**

Students in the coordinated MS/MPA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

**Criminal Justice and Criminology, MS/Social Welfare, PhD**

The Joint Master of Criminal Justice and Criminology and Doctor of Philosophy in Social Welfare program prepares students to make significant contributions to both education and research in the social sciences. The goals and objectives of both the MSCJC and PhD programs reflect the department's concerns with urban social problems, social and economic equity and well-being, cultural diversity, and the empowerment of individuals, families, organizations, and communities to effect change.

**Admission Requirements****Application Deadlines**

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

**Admission**

Relevant application materials must be submitted to both the Graduate School and the Helen Bader School of Social Welfare and will be accepted for admission in the Fall semester only. All applications must be completed and submitted on or before January 2. Applications received after January 2 will be considered only if space is available after other applications are reviewed.

Students who apply and are accepted to the joint MSCJ/PhD program will be able to earn both degrees in the course of their studies and will not be required to apply to the PhD program after earning the MSCJ degree, assuming their progress is consistent with departmental, school, and Graduate School standards. Applicants who are not offered admission to the joint program will still be considered for admission into the MSCJ-only program.

All applicants must meet Graduate School requirements plus the following school requirements:

<sup>1</sup> Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with

1. Have an undergraduate grade point average of 2.75 or better.
2. Have completed at least 21 semester credits in the social and behavioral sciences (i.e., psychology, sociology, political science, economics, anthropology, and/or their equivalents).

In the Personal Statement section of the Graduate School application form, applicants must indicate:

1. That, of the PhD program’s four areas of specialization (Criminal Justice, Addiction and Behavioral Health, Applied Gerontology, or Family and Child Welfare) they wish to pursue the Criminal Justice option.
2. Their reasons for seeking a doctoral degree.
3. Their goals as future scholars.
4. A topic or issue in the field that they consider to be particularly challenging and worthy of study.

In other materials submitted to the Graduate School, applicants must:

1. Provide a current copy of a professional résumé or curriculum vitae. This should contain information on:

- All post-secondary education, including institutions, degrees and dates of completed programs of study, plus institutions, dates, and types of study that did not lead to a degree.
- All employment by the applicant in criminal justice, social work, and related areas, including dates and employing organizations.
- Employment unrelated to criminal justice or social work within the past five years.
- Any past or current professional licenses held.

2. Submit scores from within the past five years on the Graduate Record Examination (GRE) General Test.

3. Submit three letters of recommendation from persons familiar with the applicant’s achievements and academic potential, including at least one current or former academic instructor.

4. Submit a sample of written work that demonstrates: the applicant’s knowledge of social welfare theory, practice, and research; ability to think analytically; and writing skills. The sample should be at least 1000 words in length and represent work for which the applicant was the sole author, or if it is jointly authored should indicate which sections were primarily done by the applicant.

**Advisement**

The school will assign each MSCJ/PhD student a major professor. This assignment is based on congruence between the applicant’s interests and the expertise of the major professor. In consultation with the director of the PhD program, the student may change major professors after beginning the program, but no applicant will be admitted unless a doctoral faculty member agrees to serve as major professor.

**Financial Assistance**

Through a combination of tuition remission, teaching assistantships, research assistantships, fellowships, and other options, the program will attempt to provide financial assistance to all admitted students during their first four years in the program. Applicants needing additional information on other sources of financial assistance, such as student loans, should contact the campus Department of Financial Aid.

**Residence**

Students must meet minimum Graduate School residency requirements.

**Credits and Courses**

The Criminal Justice MS (MSCJ) portion of the joint curriculum requires a minimum of 21 graduate credits. Another 12 Masters-level credits will be replaced by the same number of PhD-level credits. Courses at the Masters level are:

Code	Title	Credits
CRM JST 743	Proseminar: Administration of Criminal Justice Systems	3
CRM JST 756	Proseminar: Analysis of Criminal Justice Research	3
CRM JST 773	Criminological Perspectives	3
CRM JST 920	Criminal Justice Masters Capstone Seminar	3
or CRM JST 990	Thesis or Research Project	
CRM JST 795	Issues in Law Enforcement Practice and Policy	3
CRM JST 810	Police Administration	3
CRM JST 850	Issues in Correctional Practice and Policy	3
<b>Total Credits</b>		<b>21</b>

MSCJ courses to be replaced by PhD-level courses are:

Code	Title	Credits
CRM JST 713	Measuring Crime & Analyzing Crime Data (replaced by SOC WRK 961)	3
CRM JST 999	Independent Reading in Criminal Justice (replaced by SOC WRK 791 or SOC WRK 932)	1-3
	Elective (replaced by doctoral elective)	3
	Elective (replaced by doctoral elective)	3
<b>Total Credits</b>		<b>12</b>

A minimum of 40 credits of PhD-level course work is required. At least 31 of these must be earned in residence at UWM. Required courses include:

Code	Title	Credits
<b>Foundation</b>		
SOC WRK 901	Philosophy of Science	3
<b>Specialization Seminars</b>		
9 credits required, 3 from student’s area of specialization		9
SOC WRK 931	Theories of Poverty and Social Welfare Policy	
SOC WRK 932	Theories and Research on Behavior Change	
SOC WRK 945	Family and Long-Term Care Across the Life Course	
SOC WRK 791	Current Topics in Social Work: (Multigenerational Policies and Services)	
SOC WRK 791	Current Topics in Social Work: (Child and Family Wellbeing)	
SOC WRK 791	Current Topics in Social Work: (Criminal Justice Practice and Policy)	
<b>Research Methods</b>		
SOC WRK 951	Quantitative Research Methods	3

SOC WRK 952	Qualitative Research Methods in Social Work	3
<b>Statistics</b>		
SOC WRK 961	Introduction to Statistical Methods	4
SOC WRK 962	Applied Multiple Regression Analysis	3
<b>Research Methods or Statistics Electives</b>		
SOC WRK 963	Measurement Methods and Related Multivariate Statistics	3
SOC WRK 964	Advanced Statistical Methods	3
<b>Proseminars</b>		
SOC WRK 991	Doctoral Proseminar: (Proseminar in Research Ethics)	1
SOC WRK 991	Doctoral Proseminar: (Proseminar in Grantwriting)	1
GRAD 803	Teaching & Learning in College: Reflections on Theory and Practice	1
<b>Practicum</b>		
Accompanies first teaching and research assistantships		
SOC WRK 999	Independent Reading in Social Work (Teaching)	1-3
or CRM JST 999	Independent Reading in Criminal Justice	
SOC WRK 999	Independent Reading in Social Work (Research)	1-3
or CRM JST 999	Independent Reading in Criminal Justice	
<b>Electives</b>		
Two approved external doctoral-level courses in area of specialization (2-3 credits each)		4-6
<b>Total Credits</b>		<b>40-42</b>

## Additional Requirements

### Preliminary Examination

All students must pass a preliminary examination subsequent to successfully completing all required course work and prior to being admitted to doctoral candidacy (see <http://uwm.edu/socialwelfare/preliminary-examination/>). The examination assesses students' ability to articulate their research interests, analyze and synthesize empirical knowledge and relevant theoretical concepts, explain how theory may affect the generation of knowledge, and show familiarity with relevant scientific methodologies. In keeping with Graduate School rules, the preliminary examination should be completed within five years of enrollment.

Prior to initialing the preliminary examination, students must complete an application for the examination through the Graduate School's Milestones system. Students who fail the preliminary examination may not proceed to the dissertation. The exam may be retaken only once. Complete policies regarding forming a preliminary examination committee, writing the proposal, and taking the examination are available in the Social Welfare PhD program handbook.

### Dissertation Proposal Defense

All students must successfully complete an oral defense of their dissertation proposal to determine their preparation for independent research. The defense must be completed successfully within four years of initial enrollment.

### Dissertation

Students who have successfully completed the Preliminary Examination and a one-page preliminary dissertation proposal are formally admitted to doctoral candidacy. In accordance with Graduate School policies, students must then register for three research or thesis/dissertation credits each semester until the dissertation is submitted to the Graduate School. To meet the requirements for the dissertation, the candidate must complete an original independent research project that adds meaningfully to the existing body of knowledge in social welfare. It should be of a caliber that warrants publication in respected journals in the field.

### Dissertation Defense

As the final step toward the degree, the candidate must pass an oral examination before their doctoral committee in defense of the dissertation. The examination may also cover general topics relevant to the student's area of study. This requirement may not be completed until all other degree requirements are satisfied.

### Time Limit

It is expected that most students will complete all degree requirements within seven years of initial enrollment in the joint MSCJ/PhD program. All requirements MUST be completed within ten years from the date of initial enrollment.

## Criminal Justice and Criminology, MS/Social Work, MSW

Both departments in the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice, or social work with a focus on criminal justice (e.g., corrections, juvenile justice, probation and parole, etc).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice & Criminology and the MSW program in the Helen Bader School of Social Welfare.

## Credits and Courses

Students accepted into this MS/MSW program complete the following courses:

Code	Title	Credits
<b>Criminal Justice &amp; Criminology</b>		
CRM JST 773	Criminological Perspectives (G)	3
CRM JST 743	Proseminar: Administration of Criminal Justice Systems (G)	3
CRM JST 756	Proseminar: Analysis of Criminal Justice Research (G)	3

Select 12 additional credit hours of courses within the criminal justice & criminology program 12

Select 12 credit hours of Social Work courses with the consent of the student's advisor

Students must complete the requirements of the Essay Option or Non-Essay Option as the degree capstone

**Social Work Foundation Curriculum (required before the Advanced Curriculum for students without a bachelor's degree in social work)**

SOC WRK 604	Social Systems and Social Work Practice (U/G)	3
SOC WRK 662	Methods of Social Welfare Research (U/G)	3
SOC WRK 665	Cultural Diversity and Social Work (U/G)	3
SOC WRK 705	Individual Behavior and Social Welfare (G)	3
SOC WRK 708	Social Work Methods I: Individuals and Families (G)	3
SOC WRK 709	Social Work Methods II: Groups, Organizations and Communities (G)	3
SOC WRK 721	Field Instruction I (G)	3
SOC WRK 750	Social Welfare Policy Development and Implementation (G)	3

**Social Work Advanced Practice Curriculum**

*Required Core Courses*

SOC WRK 711	Direct Social Work Practice I	3
SOC WRK 712	Advanced Practice and Leadership in Organizations and Communities	3
SOC WRK 795	Evaluation of Social Work Practice and Programs	3
SOC WRK 851	Social Issue and Policy Analysis:	3

*Required Field Placement Courses*

SOC WRK 722	Field Instruction II	3
SOC WRK 821	Field Instruction III	3-4
SOC WRK 822	Field Instruction IV	3-4

**Electives**

Select 6 credits of electives from CJC courses in consultation with advisor

Remaining elective credits for MSW degree selected from Social Work graduate courses in consultation with MSW advisor 7

**Total Credits 73-75**

**Total Credits for Coordinated Degree: 73 (without a BSW) or 49 (with a BSW).**

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. Degrees will be awarded simultaneously.

A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

## Additional Requirements

### Time Limit

Students in the coordinated MS/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Criminal Justice and Criminology, MS: Crime Analytics

The Department of Criminal Justice and Criminology offers a Crime Analytics Concentration at the master's level. A sequence of courses will lead to a concentration in this growing area. Preparation includes a foundation in criminal justice, research methods, and criminological theory. It also includes specialized coursework in measuring crime, crime mapping, and analytic techniques for understanding crime and crime patterns. At the conclusion of the program, students will complete a crime analytics project to demonstrate their mastery of crime analytics.

Students entering the Concentration in Crime Analytics choose one of the two tracks:

- Crime Analytics Track
- Advance Crime Analytics Track

## General Degree Information

The School of Social Welfare offers a master's program of study in criminal justice and criminology. The program is designed to educate students for leadership positions in the field of criminal justice. The program also provides a strong foundation for students anticipating advanced study at the doctoral level. The curriculum is also designed to prepare Criminal Justice professionals to understand all aspects of criminal justice policy. Legal, organizational, political and behavioral frameworks are used to analyze the operation of the criminal justice system. Students are introduced to advanced knowledge on the nature and causes of crime, the justification and means of social control, the administration of the justice system, and the evaluation of criminal justice programs.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet all Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program-specific requirements to be considered for admission:

- Undergraduate degree from an accredited university in criminal justice, a related social science, or other relevant educational background.
- Undergraduate cumulative grade point average (GPA) of 3.00.
- In addition, applicants with an undergraduate cumulative GPA between 2.75-2.99 may be considered for admission, but should address their lower cumulative GPA within their reason statement.

- Two letters of recommendation from persons who are familiar with the applicant's academic record and suitability for graduate work.
- It is recommended that applicants have completed a research methods course and a statistics course at the undergraduate level prior to beginning the program.
- Applicants must also submit a brief narrative statement indicating reasons for interest in graduate study.

## Application

Application must be made to the Graduate School. Applicants may be admitted to the program for Fall, Spring or Summer (note graduate course offerings are currently limited in the summer session). For further information regarding the application process, please contact the Criminal Justice & Criminology Department office at (414) 229-2392.

## Credits and Courses

The Master of Science in Criminal Justice consists of a minimum of 33 graduate credits:

Code	Title	Credits
Courses taken within the Criminal Justice program (27 credits)		
Must include 15 credits of:		
CRM JST 713	Measuring Crime & Analyzing Crime Data	3
CRM JST 743	Proseminar: Administration of Criminal Justice Systems	3
CRM JST 756	Proseminar: Analysis of Criminal Justice Research	3
CRM JST 773	Criminological Perspectives	3
CRM JST 920	Criminal Justice Masters Capstone Seminar	3
Select an additional 12 credits of Criminal Justice Electives (4 courses)		12
Select an additional 6 credit hours taken elsewhere in the School of Social Welfare or in other UWM departments with the prior consent of advisor.		6
<b>Total Credits</b>		<b>33</b>

The student must pursue either Option A: Essay Option, or Capstone Option B: Non-Essay Option described below.

### Option A: Essay Option

Students must complete the required proseminars and, as part of the 33 graduate credits required, must complete 3 credits of research and a graduate-level statistics course approved by the student's faculty advisor. Students planning to go into doctoral programs are strongly encouraged to pursue the essay option.

### Essay

An acceptable essay must be written on the student's area of concentration.

### Comprehensive Examination

The student must pass a final oral examination in defense of the essay.

### Option B: Non-Essay Option

Students must complete the 33 graduate credits required, including the three proseminars and the criminal justice capstone seminar course.

## Crime Analytics Track

Students who complete the Crime Analytics Track will be prepared to enter into crime analysis positions in law enforcement and in other criminal justice organizations. To complete this track, students will take the following series of courses:

Code	Title	Credits
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS	3
CRM JST 713	Measuring Crime & Analyzing Crime Data	3
CRM JST 716	Advanced Analytic Techniques for Crime Analysts	3
CRM JST 795 or CRM JST 850	Issues in Law Enforcement Practice and Policy Issues in Correctional Practice and Policy	3
CRM JST 910	Methods and Practice Capstone for Crime Analysts	3
<b>Total Credits</b>		<b>15</b>

Students who complete the Crime Analytics track will also be required to complete the requirements of the master's in Criminal Justice & Criminology, for a total of 33 credits. Students who completed CRM JST 520 at the undergraduate level can have another course substituted for CRM JST 520 with the permission of the department chair. Students who take CRM JST 910 will not need to take CRM JST 920. Students must receive a B or better in all the listed required courses in order to have the concentration posted on their transcripts.

## Advanced Crime Analytics Track

The Advanced Crime Analytics track will be intensive in research methods and advanced statistical analysis. Students who complete the advanced track will be prepared for jobs as advanced analyst, to work with big data, and to conduct advanced predictive modeling. To complete this track, students will take the following series of courses:

Code	Title	Credits
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS	3
CRM JST 713	Measuring Crime & Analyzing Crime Data	3
CRM JST 716	Advanced Analytic Techniques for Crime Analysts	3
CRM JST 795 or CRM JST 850	Issues in Law Enforcement Practice and Policy Issues in Correctional Practice and Policy	3
SOC WRK 962	Applied Multiple Regression Analysis	3
SOC WRK 963	Measurement Methods and Related Multivariate Statistics	3
CRM JST 783	Data Mining and Predictive Modeling for Crime Analytics	3
CRM JST 910	Methods and Practice Capstone for Crime Analysts	3
<b>Total Credits</b>		<b>24</b>

Students who complete the Advanced Crime Analysts track will also be required to complete the requirements of the Master's in Criminal Justice & Criminology, for a total of 36 completed credits. Students

who completed CRM JST 520 at the undergraduate level can have another course substituted for CRM JST 520 with the permission of the department chair. Students who take CRM JST 910 will not need to take CRM JST 920. Students must receive a B or better in all the listed required courses in order to have the concentration posted on their transcripts.

## Additional Requirements

### Major Professor as Advisor

The student must have a faculty advisor to advise and supervise the student's studies as specified in Graduate School regulations. At the time of admission, the Graduate Program Director will assign each student to a faculty advisor. Students who begin to work closely with a particular faculty member with expertise in their area of interest may request that this faculty member serve as their advisor. Students who pursue the Essay Option must choose a faculty member to serve as their major professor.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

# Cyber Crime Forensics, Graduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)

The Graduate Certificate in Cyber Crime Forensics is offered in collaboration with the School of Information Studies and the Department of Criminal Justice & Criminology. The satisfactory completion of a sequence of courses will lead to a certificate in this growing area. Preparation includes a foundation in cyber crime theory, legal and policy issues of cyber crime, and digital forensic investigation.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The certificate will be available to all students who have already received a bachelor's degree from any accredited university. Graduate students enrolled in any program who successfully complete the requirements of their program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree will receive the certificate upon completion of the program requirements.

The Certificate in Cyber Crime will consist of 21 credits with the following courses (or equivalents) required:

Code	Title	Credits
CRM JST 421G	Cybercrime	3
CRM JST 422G	Cyber Crime, Law & Public Policy	3
INFOST 695G	Ethical Hacking I	3
INFOST 691G	Special Topics in Information Science: (Ethical Hacking II)	1-3
INFOST 691G	Special Topics in Information Science: (Computer Forensics)	1-3
Choose 2 from the following:		6
CRM JST 423G	Investigating the Dark Web	
CRM JST 424G	Sex Crimes, Human Trafficking, and the Internet	
CRM JST 480G	Criminal Evidence and Investigation	
INFOST 784	Information Security Management	
<b>Total Credits</b>		<b>21</b>

A minimum of 15 credits must be taken at UWM. For those with a degree in Criminal Justice, past course credits will be evaluated for equivalency and will be approved by the department chairperson.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Death Investigation, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

### Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

### Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
ANTHRO 403	The Human Skeleton	3
ANTHRO 405	Forensic Anthropology	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3
BMS 610 or HCA 212	Pharmacology Drugs Used and Abused	3
<b>Total Credits</b>		<b>24</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/ CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/ CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 404	Human Biological Variation	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
CHEM 194	First-Year Seminar	3
CHEM 524	Instrumental Analysis	3
CHEM 602	Biochemistry: Cellular Processes	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

## Forensic Science, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for



professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

## Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

## Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3
ANTHRO 403 or ANTHRO 404	The Human Skeleton Human Biological Variation	3
BMS 610 or HCA 212	Pharmacology Drugs Used and Abused	3
Select one of the following:		3-4
BIO SCI 539	Laboratory Techniques in Molecular Biology	
CHEM 602	Biochemistry: Cellular Processes	
BMS 560 & BMS 561	Molecular and Genetic Diagnostics and Molecular Diagnostics Laboratory	
<b>Total Credits</b>		<b>21-22</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 285	Medicolegal Death Investigation	3

ANTHRO/BMS/CHEM/ CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/ CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/ CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 405	Forensic Anthropology	3
CHEM 194	First-Year Seminar:	3
CHEM 524	Instrumental Analysis	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1

## Forensic Toxicology, Undergraduate Certificate (Helen Bader School of Social Welfare, Department of Criminal Justice)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

## Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

## Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
CHEM 524	Instrumental Analysis	3
BMS 610	Pharmacology	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3
ANTHRO 403 or ANTHRO 404	The Human Skeleton Human Biological Variation	3
<b>Total Credits</b>		<b>21</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/ CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/ CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/ CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 405	Forensic Anthropology	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
CHEM 194	First-Year Seminar: (with forensic subtitle)	3
CHEM 602	Biochemistry: Cellular Processes	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

## Military Science

### Army ROTC

UW-Milwaukee students have the opportunity to participate in the Army Reserve Officers Training Corps (AROTC) at Marquette University. The AROTC program provides university students with leadership, management, technical, and tactical skills that will enable them to start their journey as commissioned officers in the United States Army, Army Reserve, or Army National Guard.

Army ROTC is not a major field of study. It is a program in which students pursue a baccalaureate degree of their choice and take AROTC courses in military-oriented subject matter. AROTC provides a general knowledge of the contemporary role of the Army in support of national objectives and a practicum in management and leadership skills. Credits earned in military science courses apply toward graduation requirements.

The Army ROTC program offers competitive two-, three-, and four-year scholarships to qualified students. Currently, the scholarships offered

for UWM students cover full tuition and fees or room and board, \$1,200 a year for books, and a \$300-\$500 monthly stipend.

### General Eligibility

To be eligible for an AROTC scholarship, students must:

- Be a United States citizen;
- Be a full-time student;
- Have no major civil convictions;
- Not be a conscientious objector;
- Be medically qualified;
- Have a minimum 2.5 GPA; and
- Have a minimum ACT score of 19 or SAT score of 950.

The Army ROTC program is divided into two parts: the basic course (freshman and sophomore years) and the advanced course (junior and senior years). The freshman year course currently is being offered at UWM; the remainder of the courses are offered at Marquette University. Credit hours earned at Marquette University are transferred to UWM student transcripts and count towards GPA and elective credit.

### Basic Course

In the basic course, cadets learn basic military skills and receive the foundation for leadership and management skills that are expanded during the advanced course. The basic course is open to all full-time UWM students without any obligation to the Army.

### Advanced Course

During the advanced course, cadets learn more extensive leadership and management skills, and they are placed into various leadership positions in the battalion. Cadets also develop skills and attributes that are essential for all commissioned officers in the U.S. Army.

In addition to completing the military science courses, advanced-course students are required to attend the Advanced Leadership Course at Fort Lewis, Washington, during the summer between the junior and senior years. During this five-week camp, cadets are expected to apply all of the skills that they have learned in the AROTC program. In addition, cadets are offered the opportunity to compete for a chance to attend Airborne School, Air Assault School, or Cadet Troop Leadership Training (CTLT). CTLT is an "internship" in which cadets have a chance to see what a Second Lieutenant does on an active duty Army post.

To qualify for the Advanced Course, students must accomplish one of the following:

- Complete the two years of the basic course;
- Attend the Basic Leaders Course, a six-week camp at Fort Knox, Kentucky; or
- Complete U.S. Army Basic Training or its equivalent.

### Field Exercises

Once a semester, all of the cadets in the program go to Fort McCoy, Wisconsin, to practice all of the skills that they have learned. Advanced course cadets also are given the opportunity to improve their leadership skills by being placed in various leadership positions leading other cadets.

### Physical Training

Three times a week, cadets are required to attend physical training (PT). During PT, cadets do physical activities such as push-ups, sit-ups,

and running. PT currently is conducted at both UWM and Marquette University.

For more information about enrolling in the Army ROTC program, contact [army-rotc@uwm.edu](mailto:army-rotc@uwm.edu) or the Department of Military Science at Marquette University, (414) 288-7195, or [www.marquette.edu/rotc/army](http://www.marquette.edu/rotc/army) (<http://www.marquette.edu/rotc/army/>).

## Air Force ROTC

UWM students have the opportunity to participate fully in the Air Force Reserve Officers Training Corps (AFROTC) Program. Students enrolled in the Air Force ROTC program attend AFROTC courses at Marquette University.

Through this program, UWM offers its students the opportunity to prepare for initial active duty assignments as Air Force Commissioned Officers. In order to receive a commission, AFROTC cadets must complete all university requirements for a degree and courses specified by the Air Force. AFROTC offers four- and three-year programs leading to a commission as an Air Force officer. Four-year program students complete the general military course and the professional officer course.

### General Eligibility

- Be a full-time student;
- Be a United States citizen (for scholarship appointment);
- Be in good physical condition;
- Be of good moral character;
- For pilot or navigator training, fulfill all commissioning requirements before age 29;
- For scholarship recipients, fulfill all commissioning requirements before age 31; and
- For non-scholarship students, fulfill all commissioning requirements before age 31.

### General Military Course

The first- and second-year educational program in Air Force Aerospace Studies consists of a series of one-hour courses designed to give students basic information on world military systems and the role of the U.S. Air Force in the defense of the free world. All required textbooks and uniforms are provided free. The general military course is open to all students at UWM without advance application and does not obligate students to the Air Force in any way.

### Field Training

AFROTC Field Training is offered during the summer months at Maxwell Air Force Base, Alabama, and provides leadership and officer training in a structured military environment. Major areas of study include physical training, drill and ceremony, marksmanship, and survival training. The Air Force pays all expenses associated with field training.

### Professional Officer Course

The third and fourth years of Air Force Aerospace Studies are designed to develop skills and attitudes vital to the professional officer. Students completing the professional officer course are commissioned as officers in the U.S. Air Force upon college graduation. All students in the professional officer course receive a non-taxable subsistence allowance per month during the academic year. Students wanting to enter the professional officer course should apply early in the spring semester in order to begin this course of study in the following fall semester.

## Leadership Lab

Leadership Lab is a cadet-centered activity. It is largely cadet-planned and -directed, in line with the premise that it provides leadership training experience that will improve a cadet's ability to perform as an Air Force officer. The freshman and sophomore leadership laboratory program introduces Air Force customs and courtesies, drill and ceremonies, wearing the uniform, career opportunities in the Air Force, education and training benefits, the life and work of an Air Force officer, and opportunities for field trips to Air Force installations throughout the U.S. Initial experiences include preparing the cadet for individual squadron and flight movements in drill and ceremonies and for the field training assignment prior to the junior year.

The junior and senior leadership laboratory program involves the cadets in advanced leadership experiences. Cadet responsibilities include planning and directing the activities of the cadet corps, preparing briefings and written communications, and providing interviews, guidance, information, and other services that will increase the performance and motivation of other cadets.

## AFROTC College Scholarship and High School Scholarship Programs

While participating in AFROTC, scholarship students receive a stipend per month along with paid tuition, fees, and a fixed textbook reimbursement. To be eligible for either of these programs, students must:

- Be a U.S. citizen;
- Be at least 17 years of age on the date of enrollment and under 31 years of age on December 31 of the estimated year of commissioning;
- Pass an Air Force physical exam;
- Be selected by a board of Air Force officers;
- Have no moral objections or personal convictions that prevent bearing arms and supporting and defending the Constitution of the United States against all enemies, foreign and domestic (applicants must not be conscientious objectors);
- Maintain a 2.5 grade point average.

High school students can apply for scholarships late in their junior year or early in their senior year. Information on Air Force ROTC and applications for Air Force scholarships are available at [www.AFROTC.com](http://www.AFROTC.com) (<http://www.afrotc.com/>). Scholarship applications will not be accepted after December 1 of the year before entering college.

For more information, contact the Department of Aerospace Studies at Marquette University, (414) 288-7682.

## Naval ROTC

The Naval Science Department at Marquette University administers the Naval Reserve Officers Training Corps (NROTC) program. Graduates who complete all requirements will receive reserve commissions and serve on active duty in the Navy or Marine Corps with a minimum three-year commitment for non-scholarship students and five-year commitment for scholarship students.

### Scholarships

NROTC offers two-, three-, and four-year scholarships to qualified applicants. Four-year scholarships are awarded on a national level to qualified high school applicants (visit [www.nrotc.navy.mil](http://www.nrotc.navy.mil) (<http://www.nrotc.navy.mil>) for more information and to apply). Two- and three-year scholarships are awarded to students who have completed at least

one, but not more than four, terms of college while a member of the NROTC Unit. Two-year scholarships for students who are entering their junior year and have not previously been enrolled in the NROTC program also are available.

Students entering UWM with a four-year scholarship, earned on a competitive basis while still in high school, will receive full tuition, fees, laboratory expenses, a stipend for books, and a subsistence allowance of \$250 to \$400 per month, depending on class year. Necessary uniforms and textbooks for required Naval Science courses are issued as well.

## General Eligibility

- Be a U.S. citizen;
- Not less than 17 years old by Sept. 1 of year starting college, and no more than 23 on June 30 of that year;
- Be of good moral character;
- Be a high school graduate;
- Be 27 or younger by June 30 of the year you will graduate;
- Be physically qualified by Navy/Marine Corps standards; and
- Achieve qualifying scores on the SAT or ACT  
**ACT:** 22 verbal, 22 math (22 composite for Marine Corps)  
**SAT:** 530 verbal, 520 math (1000 composite for Marine Corps).

Students not on scholarship can still participate in the NROTC College Program. They receive uniforms and Naval Science textbooks, and \$350 and \$400 per month during their junior and senior years, respectively. All College Program students are eligible to compete for Naval Education and Training Command scholarships. Students are selected on a competitive basis after completing at least one term as an NROTC College Program student. Selection boards meet semiannually in March and June to consider students based on their most recent term. Students may receive scholarship benefits for three or two academic years. Once selected, the students receive the same benefits and incur the same active duty requirements as students in the four-year scholarship program.

The Naval Science Department teaches Naval Science courses and supervises a midshipman-run drill program that instills leadership skills and professional development in all members of the midshipman battalion. All midshipmen are required to register for and participate in this two-hour weekly drill period, which occurs at the Marquette University Gymnasium. One Naval Science class each term is also required, with the exception of Nurse Corps and Marine Corps Options. Students enrolled in the program from UWM attend Naval Science classes at Marquette as "cross-town" students, while the rest of their major is completed on the UWM campus. Midshipmen on scholarship or in advanced-standing status also are required to attend a four- to six-week training period each summer. This summer training introduces

midshipmen to the fleet and to the life of a junior Naval Officer. The summer training period also provides an orientation to each of the different warfare specialties available upon graduation (aviation, surface, submarine, and the Marine Corps).

All Navy Option scholarship students are required to complete one year of calculus by the end of their sophomore year, and one year of calculus-based physics by the end of their junior year. Navy Option college program students must complete one year each in mathematics and physical science. One course on World Cultural Awareness, one year of English, and either an American Military History or National Security Policy course also are required for all NROTC students.

All scholarships are awarded on the basis of merit and personal qualifications. Neither a Parents' Confidential Financial Statement nor a standard FAF is required for consideration for Naval ROTC scholarships.

For more information, contact the Department of Naval Science at Marquette University, (414) 288-7076, or visit our website at [www.marquette.edu/rotc/navy](http://www.marquette.edu/rotc/navy) (<http://www.marquette.edu/rotc/navy/>).

## Social Work

Study in the field of social work examines social problems from multiple perspectives and encourages change among individuals, families, groups, organizations and communities. Social work practitioners work in child welfare, gerontology, mental and physical health, and community leadership. This program partners with hundreds of agencies to prepare graduates with hands-on field experience.

## Programs

- Aging, Minor (p. 541)
- Applied Gerontology, Graduate Certificate (p. 541)
- Social Welfare, PhD (p. 543)
- Social Welfare, PhD/Criminal Justice and Criminology, MS (p. 545)
- Social Work, BS (p. 547)
- Social Work, MSW (p. 549)
- Social Work, MSW/Criminal Justice and Criminology, MS (p. 551)
- Social Work, MSW/Public Health, MPH (p. 552)
- Social Work, MSW/Social Welfare, PhD (p. 554)
- Social Work, MSW/Women's and Gender Studies, MA (p. 556)
- Suicide Prevention Across the Lifespan, Undergraduate Microcredential (p. 558)
- Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work) (p. 558)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Lisa Berger	Associate Dean and Professor	PhD	University of Wisconsin-Milwaukee	✓	
Ai Bo	Assistant Professor	PhD	New York University	✓	
Linda Britz	Senior Lecturer	PhD	University of Pretoria, South Africa	✓	
Michael Brondino	Associate Professor Emeritus	PhD	University of South Carolina		✓
Zach Chartrand	MSW Senior Advisor	MSW	University of Wisconsin-Milwaukee		

Colleen Galambos	Helen Bader Endowed Chair in Applied Gerontology	PhD	The Catholic University of America National Catholic School of Social Service	✓
Ke'Andra Hagans	Clinical Assistant Professor and Field Liaison	MSW	University of Wisconsin-Milwaukee	
Jane Hereth	Assistant Professor	PhD	University of Chicago	✓
Colleen Janczewski	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓
Thomasina Jenkins	Clinical Assistant Professor and Field Liaison	MSW	University of Wisconsin-Milwaukee	
Michelle Jurvelin	Lecturer and MSW Online Program Specialist	MSW	University of Wisconsin-Milwaukee	
Jennifer Kahn-Pettigrew	Clinical Assistant Professor	MSW	University of Wisconsin-Milwaukee	
Melinda S. Kavanaugh	Professor	PhD	University of Wisconsin-Madison	✓
Yura Lee	Assistant Professor	PhD	University of Southern California	✓
Gwat-Yong Lie	Associate Professor Emerita	PhD	University of Wisconsin-Madison	✓
Livy Malle	Senior Lecturer	MSW	University of Wisconsin-Milwaukee	
Steven McMurtry	Professor Emeritus	PhD	University of Wisconsin-Madison	✓
Joshua Mersky	Professor	PhD	University of Wisconsin-Madison	✓
Laura Otto-Salaj	Associate Professor Emerita	PhD	Temple University	✓
David J. Pate Jr.	Associate Professor	PhD	University of Wisconsin-Madison	✓
Susan Rose	Professor Emerita	PhD	University of Illinois at Chicago	✓
Matt Steigerwald	Senior Lecturer and BSW Program Coordinator	MSW	University of Wisconsin-Madison	
Andrew T. Steward	Assistant Professor	PhD	University of Denver	✓
Jenny Taylor-McBride	Clinical Assistant Professor	MSW	Western Michigan University	
James Dimitri Topitzes	Professor and Chair	PhD	University of Wisconsin-Madison	✓
Devin Thomas	Clinical Associate Professor and Field Liaison	MSW	Jane Addams College of Social Work	
Jeanne Wagner	Clinical Professor	MSW	Jane Addams College of Social Work	
Trina Salm Ward	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓

## Aging, Minor

Older adults are living longer than any other time in history. By 2035, older adults will outnumber children. There is a genuine need for social work students to be adequately trained to meet the needs of older adults in settings including: medical, hospice, long-term care, rehabilitation, home and community-based services, behavioral health, corrections, criminal justice, research and policy analysis, program development, advocacy, education, and training.

The Social Work Minor in Aging will provide an opportunity for undergraduate social work students to obtain skills and knowledge in gerontology. Their classroom training will culminate in a field practicum in an agency that serves older adults. In this setting, students will have the opportunity to apply the knowledge they have learned in the classroom and acquire direct practice skills by interacting with clients in the field with the support of an agency field instructor. This will prepare students to work with the aging population after graduation.

## Requirements

The Social Work Minor in Aging is open to Undergraduate Social Work Students only. It includes 22 total credits, including the following required courses and electives:

Code	Title	Credits
<b>Required Courses (already required for the Social Work program)</b>		
SOC WRK 250	Human Behavior and the Social Environment	3
SOC WRK 421	Field Education & Integrated Field Seminar I	5
SOC WRK 422	Field Education & Integrated Seminar II	5
<b>Electives</b>		
Choose three courses from those listed below:		9
SOC WRK 300	Aged to Perfection: Introduction to the Study of Aging	
SOC WRK 564	Social Services for the Aging	
SOC WRK 680	Death and Dying	
SOC WRK 685	Social Gerontology	
<b>Total Credits</b>		<b>22</b>

## Applied Gerontology, Graduate Certificate

The Graduate Certificate in Applied Gerontology is an interdisciplinary program designed to provide students with the knowledge and skills they need to successfully pursue careers within aging services organizations, or to conduct academic research in the field of aging. The program

focuses on the biological, psychological, social, and policy aspects of aging, and encourages students to link practice and research in order to improve the quality of life of older adults. The GCAG is intended for graduate degree-seeking students in any field, and for degreed professionals looking to advance or refocus their careers. Please contact Jennifer Kahn-Pettigrew, Coordinator for Education and Programming, at 414-229-6888 or kahnpet2@uwm.edu for more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

Scholarship (<https://uwm.edu/socialwelfare/research/office-of-applied-gerontology/appgerscholarships/>) options are available.

### Admission

Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

## Credits and Courses

Students wishing to earn a Graduate Certificate in Applied Gerontology must complete 18 graduate credit hours. No student may complete all 18 credits within a single school or college.

Code	Title	Credits
<b>Core</b>		
NURS 760	Processes of Aging	3
SOC WRK 851	Social Issue and Policy Analysis: (Aging)	3
<b>Choice Core</b>		
Select two of the following: 6		
AD LDSP 547	The Educational Dimensions of Practice with Older Adults	
NURS 670G	Nursing Care of Adults and Older Adults I (*open to Nursing students only)	
OCCTHPY 744	Advanced Occupational Therapy for Aging Adults (*open to Occupational Therapy students only)	

PSYCH 680	Psychology of Aging
SOC WRK 680	Death and Dying
SOC WRK 685	Social Gerontology
SOC WRK 855	Practice Skills and Concepts for Aging and Health
<b>Electives</b>	
Select 6 credits <sup>1</sup>	6
AD LDSP 667	Program Planning in Adult Education
AD LDSP 757	Principles and Foundations of Adult Education
ARCH 791	Master's Level Directed Research
ARCH 792	Master's Level Independent Studies and Research
ARCH 794	Pre-Thesis or Master's Project Research
ARCH 800	Design Elective:
ARCH 891	Master's Project
COMMUN 672	Communication and Social Order
COMSDIS 713	Degenerative Cognitive Communication Disorders in Older Adults
ED PSY 747	Human Development: Study of the Adult
ENGLISH 749	Advanced Internship in Writing and Community Engagement
NURS 671G	Nursing Care of Adults and Older Adults II (*open to Nursing students only)
NURS 702	Advanced Practice Nursing Adult-Gerontology Chronic Illness (*open to Nursing students only)
NURS 779	Special Topics Seminar: (Pain and Symptom Management)
OCCTHPY 625	Design and Disability
OCCTHPY 760	Assistive and Rehabilitation Technology
OCCTHPY 770	Assessment in Assistive Technology and Accessible Design
PSYCH 782	The Aging Brain
SOC WRK 564	Social Services for the Aging
SOC WRK 811	Direct Social Work Practice II: (Aging)

**Total Credits** 18

<sup>1</sup> Additional electives that are not listed in the Electives heading above may be approved by the Certificate Coordinator. Students may also complete a "Practicum" in their home department or area of choice, with the approval of the Certificate Coordinator.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

## Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Social Welfare, PhD

### Related Certificates

- Applied Gerontology (p. 541)
- Non-Profit Management (p. 1274)
- Trauma-Informed Care (p. 376)
- Women's Studies (p. 1328)

## State of Wisconsin Credentials

- School Social Work Certification (<http://uwm.edu/socialwelfare/academics/school-social-work/>)
- Substance Abuse Certification (<http://uwm.edu/socialwelfare/academics/substance-abuse-certification-sac/>)

## Overview

The Helen Bader School of Social Welfare (HBSSW) offers a program of graduate studies in social work. As a department in an urban research university, the mission of the Department of Social Work is to promote positive change through social work research, scholarship, education, and community partnerships. The Department promotes the values of the social work profession through a commitment to social justice and diversity, a dedication to public service, and an emphasis on individual

and community well-being. The goal of the MSW program is to prepare graduates with specialized knowledge and skills for advanced practice and leadership with diverse populations and communities.

In furtherance of its mission, the goals of the Social Work Department are:

1. To educate students to become highly skilled, culturally competent, and ethical social workers and to provide leadership for the practice of social justice.
2. To create and disseminate knowledge leading to social work and inter-disciplinary innovations.
3. To engage in research and apply results that inform social work policy, practice, advocacy, education, and future research.
4. To collaborate with community partners in promoting evidence-informed practice, educational and research partnerships, and social and economic justice.

HBSSW offers students access to the University computer system, special interview training rooms, and specialized audiovisual materials.

The MSW curriculum is designed to prepare students for advanced-level professional Social Work practice, and builds upon a solid base of coursework in human behavior, practice methods, research, and policy. The MSW program is accredited by the Council on Social Work Education and can prepare students for state certification requirements.

## Requirements

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

Relevant application materials must be submitted to both the Graduate School (<http://uwm.edu/graduateschool/admission/>) and HBSSW and will be accepted for admission in the Fall semester only. All applications must be completed and submitted on or before January 2. Applications received after January 2 will be considered only if space is available after other applications are reviewed. Applicants must meet Graduate School requirements plus the following departmental requirements in order to be considered:

1. Hold or be in the process of completing a master's degree in social welfare or master's degree in criminal justice, criminology, or comparable degree. Applicants with master's degrees in related disciplines will be considered on a case-by-case basis.
2. Identify the following in the Personal Statement section of the Graduate School application:
  - Which of the program's four areas of specialization (Applied Behavioral Health, Applied Gerontology, Criminal Justice, or Family and Child Welfare) they wish to pursue.
  - Their reasons for seeking a doctoral degree in social welfare.
  - Their goals as future scholars.
  - A topic or issue in the field that they consider to be particularly challenging and worthy of study.

- Submit a current copy of a professional résumé or curriculum vitae to the Social Welfare PhD Program. This should contain information on:
  - All post-secondary education, including institutions, degrees and dates of completed programs of study, plus institutions, dates, and types of study that did not lead to a degree.
  - All employment by the applicant in social work, criminal justice, and related areas, including dates and employing organizations.
  - Employment unrelated to social work or criminal justice within the past five years.
  - Information on any past or current professional licenses held.
- Submit scores from within the past five years on the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>) General Test to the Social Welfare PhD Program.
- Submit three letters of recommendation from persons familiar with the applicant's achievements and academic potential, including at least one current or former graduate program instructor to the Social Welfare PhD Program.
- Submit a sample of written work to the Social Welfare PhD Program that demonstrates: the applicant's knowledge of social work and/or criminal justice theory, practice, and research; ability to think analytically; and writing skills. The sample should be at least 1000 words in length and represent work for which the applicant was the sole author.

The program will assign each PhD student a major professor. This assignment is based on congruence between the applicant's interests and the expertise of the major professor. In consultation with the director of the PhD program, the student may change major professors after beginning the program, but no applicant will be admitted unless a doctoral faculty member in criminal justice or social work agrees to serve as major professor.

### Financial Assistance

Through a combination of tuition remission, teaching assistantships, research assistantships, fellowships, and other options, the program will attempt to provide financial assistance to all admitted students during their first three years in the program. Applicants needing additional information on other sources of financial assistance, such as student loans, should contact the campus Office of Financial Aid.

## Credits and Courses

A minimum degree of 43 graduate credits beyond the master's degree are required, at least 36 of which must be earned in residence at UWM.

In consultation with the major professor and as soon as possible after admission, each student designs a program of study to gain the knowledge and skills appropriate to his/ her educational goals. All programs of study must include the following:

Code	Title	Credits
<b>Knowledge Building</b>		
SOC WRK 901	Philosophy of Science	3
Select 11-12 credits in Specialization Seminars (see below)		11-12
<b>Methods of Inquiry and Analysis</b> <sup>1</sup>		
<i>Research Methods</i>		
SOC WRK 951	Quantitative Research Methods	3
SOC WRK 952	Qualitative Research Methods in Social Work	3
<i>Statistics</i>		

SOC WRK 961	Introduction to Statistical Methods	4
SOC WRK 962	Applied Multiple Regression Analysis	3
<i>Research Methods and Statistics Electives</i> <sup>2</sup>		
SOC WRK 963	Measurement Methods and Related Multivariate Statistics	3
SOC WRK 964	Advanced Statistical Methods	3
<i>Doctoral Proseminar</i> <sup>3</sup>		
SOC WRK 991	Doctoral Proseminar: (Research Ethics)	1
SOC WRK 991	Doctoral Proseminar: (Grantwriting)	1
SOC WRK 991	Doctoral Proseminar: (Teaching)	1
<i>Teaching</i> <sup>4</sup>		
Select one semester of work as a teaching assistant		
Select semester as a project or research assistant		
<i>Independent Study</i> <sup>5</sup>		
SOC WRK 999	Independent Reading in Social Work	1-3
<b>Electives</b> <sup>6</sup>		
Select 4-6 credits		4-6
<b>Total Credits</b>		<b>41-46</b>

<sup>1</sup> Content in this area comprises a set of required courses in methods of social/behavioral research and statistics. Students are expected to enter the program with at least a basic background in both methods and statistics and may need to satisfy prerequisites before proceeding to required courses.

<sup>2</sup> Two electives from inside or outside the HBSSW are required. Students may choose one or both of the above elective courses or one or two courses from an approved set of alternatives offered in other Schools or campuses. Approval must be secured from the major advisor prior to enrolling.

<sup>3</sup> Requirements in this area are designed to provide students with specialized knowledge and skills needed for success in scholarly endeavors and teaching at the post-secondary level. With respect to classroom work, all students must complete the following three one-credit proseminars.

<sup>4</sup> All students must complete one semester of work as a teaching assistant and one semester as a project or research assistant, usually in their second year. During the semester in which they serve as a teaching assistant, students must enroll for one credit in SOC WRK 999/CRM JST 999.

<sup>5</sup> This independent study credit will be completed under the supervision of the faculty member to whom the student is assigned as an assistant. The product should be a project that will advance the student's skills in teaching, such as preparation of a guest lecture or other such task determined by the supervising faculty member.

<sup>6</sup> These credits provide an opportunity for students to take content of interest within the HBSSW or in other schools on campus that offer graduate-level courses relevant to the student's educational goals. Elective options within the HBSSW include the completion of additional specialization seminars beyond the required total. Students may also complete this requirement by taking additional research methods or statistics courses within or outside the HBSSW, or they may take theory or basic-knowledge courses in other Schools that are at the graduate level and are approved by their advisor and the PhD program director.

### Knowledge Building

The goals and objectives of the doctoral program reflect the Department's concern with urban social problems, social and economic equity and



well-being, cultural diversity, and the empowerment of individuals, families, organizations, and communities to effect change. The program will prepare students to make significant contributions to social work education and the knowledge base of the profession.

The curriculum includes four areas of specialization:

- Applied Behavioral Health
- Applied Gerontology
- Criminal Justice
- Family and Child Welfare

Each student must select at least one of these areas in which to concentrate. In consultation with the major professor, a student may also choose to develop expertise that spans more than one area.

Content in these four specialization areas is presented in the form of specialization seminars. All students must take at least three specialization seminars within the program and at least one relevant course external to the HBSSW; the external course must be from a list of courses approved for this purpose or a student's unique request approved by the doctoral program committee. At least two courses, including one internal and one external course, must be in the student's area of specialization, and at least one course internal to the HBSSW must be in an area other than the student's primary specialization. All specialization courses outside the HBSSW must be approved by the student's major professor prior to enrollment.

### Examples of Specialization Seminars

Code	Title	Credits
SOC WRK 931	Theories of Poverty and Social Welfare Policy (Family and Child Welfare specialization)	3
SOC WRK 932	Theories and Research on Behavior Change (Addiction and Behavioral Health specialization)	3
SOC WRK 945	Family and Long-Term Care Across the Life Course (Applied Gerontology specialization)	3
SOC WRK 791	Current Topics in Social Work: (Family and Child Welfare Specialization)	1-3

## Additional Requirements

### Residence

Students must meet minimum Graduate School residency requirements.

### Preliminary Examination

All students must pass a preliminary examination subsequent to successfully completing all required coursework and prior to being admitted to doctoral candidacy. The examination assesses students' ability to articulate their research interests, analyze and synthesize empirical knowledge and relevant theoretical concepts, explain how theory may affect the generation of knowledge, and show familiarity with relevant scientific methodologies. In keeping with Graduate School rules, the preliminary examination should be completed within five years of enrollment.

An Application for the Doctoral Preliminary Examination must be completed by the student and signed and submitted to the PhD Program Committee by the major professor six weeks prior to the first examination. Students who fail the preliminary examination may not proceed to the dissertation. The exam may be retaken only

once. Complete policies regarding forming a preliminary examination committee, writing the proposal, and taking the examination are available in the Social Welfare PhD program handbook.

### Dissertation Proposal Defense

All students must successfully complete an oral defense of their dissertation proposal to determine their preparation for independent research. The defense must be completed successfully within four years of initial enrollment.

### Dissertation

Students who have passed the Preliminary Examination and have submitted a one-page preliminary dissertation proposal are formally admitted to doctoral candidacy. In accordance with Graduate School policies, students must then register for three research or thesis/dissertation credits each semester until the dissertation is submitted to the Graduate School. To meet the requirements for the dissertation, the candidate must complete an original independent research project that adds meaningfully to the existing body of knowledge in social work. It should be of a caliber that warrants publication in respected journals in the field.

### Dissertation Defense

As the final step toward the degree, the candidate must pass an oral examination before his/her doctoral committee in defense of the dissertation. The examination may also cover general topics relevant to the student's area of study. This requirement may not be completed until all other degree requirements are satisfied.

### Time Limit

It is expected that most students will complete all degree requirements within six years of initial enrollment in the doctoral program. All requirements MUST be completed within ten years from the date of initial enrollment.

## Social Welfare, PhD/Criminal Justice and Criminology, MS

The Joint Master of Criminal Justice and Criminology and Doctor of Philosophy in Social Welfare program prepares students to make significant contributions to both education and research in the social sciences. The goals and objectives of both the MSCJC and PhD programs reflect the department's concerns with urban social problems, social and economic equity and well-being, cultural diversity, and the empowerment of individuals, families, organizations, and communities to effect change.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Relevant application materials must be submitted to both the Graduate School and the Helen Bader School of Social Welfare and will be accepted for admission in the Fall semester only. All applications must be completed and submitted on or before January 2. Applications received after January 2 will be considered only if space is available after other applications are reviewed.

Students who apply and are accepted to the joint MSCJ/PhD program will be able to earn both degrees in the course of their studies and will not be required to apply to the PhD program after earning the MSCJ degree, assuming their progress is consistent with departmental, school, and Graduate School standards. Applicants who are not offered admission to the joint program will still be considered for admission into the MSCJ-only program.

All applicants must meet Graduate School requirements plus the following school requirements:

1. Have an undergraduate grade point average of 2.75 or better.
2. Have completed at least 21 semester credits in the social and behavioral sciences (i.e., psychology, sociology, political science, economics, anthropology, and/or their equivalents).

In the Personal Statement section of the Graduate School application form, applicants must indicate:

1. That, of the PhD program's four areas of specialization (Criminal Justice, Addiction and Behavioral Health, Applied Gerontology, or Family and Child Welfare) they wish to pursue the Criminal Justice option.
2. Their reasons for seeking a doctoral degree.
3. Their goals as future scholars.
4. A topic or issue in the field that they consider to be particularly challenging and worthy of study.

In other materials submitted to the Graduate School, applicants must:

1. Provide a current copy of a professional résumé or curriculum vitae. This should contain information on:

- All post-secondary education, including institutions, degrees and dates of completed programs of study, plus institutions, dates, and types of study that did not lead to a degree.
- All employment by the applicant in criminal justice, social work, and related areas, including dates and employing organizations.
- Employment unrelated to criminal justice or social work within the past five years.
- Any past or current professional licenses held.

2. Submit scores from within the past five years on the Graduate Record Examination (GRE) General Test.

3. Submit three letters of recommendation from persons familiar with the applicant's achievements and academic potential, including at least one current or former academic instructor.

4. Submit a sample of written work that demonstrates: the applicant's knowledge of social welfare theory, practice, and research; ability to think analytically; and writing skills. The sample should be at least 1000 words in length and represent work for which the applicant was the sole author, or if it is jointly authored should indicate which sections were primarily done by the applicant.

#### Advisement

The school will assign each MSCJ/PhD student a major professor. This assignment is based on congruence between the applicant's interests and the expertise of the major professor. In consultation with the director of the PhD program, the student may change major professors after beginning the program, but no applicant will be admitted unless a doctoral faculty member agrees to serve as major professor.

#### Financial Assistance

Through a combination of tuition remission, teaching assistantships, research assistantships, fellowships, and other options, the program will attempt to provide financial assistance to all admitted students during their first four years in the program. Applicants needing additional information on other sources of financial assistance, such as student loans, should contact the campus Department of Financial Aid.

#### Residence

Students must meet minimum Graduate School residency requirements.

## Credits and Courses

The Criminal Justice MS (MSCJ) portion of the joint curriculum requires a minimum of 21 graduate credits. Another 12 Masters-level credits will be replaced by the same number of PhD-level credits. Courses at the Masters level are:

Code	Title	Credits
CRM JST 743	Proseminar: Administration of Criminal Justice Systems	3
CRM JST 756	Proseminar: Analysis of Criminal Justice Research	3
CRM JST 773	Criminological Perspectives	3
CRM JST 920	Criminal Justice Masters Capstone Seminar	3
or CRM JST 990	Thesis or Research Project	
CRM JST 795	Issues in Law Enforcement Practice and Policy	3
CRM JST 810	Police Administration	3
CRM JST 850	Issues in Correctional Practice and Policy	3
<b>Total Credits</b>		<b>21</b>

MSCJ courses to be replaced by PhD-level courses are:

Code	Title	Credits
CRM JST 713	Measuring Crime & Analyzing Crime Data (replaced by SOC WRK 961)	3
CRM JST 999	Independent Reading in Criminal Justice (replaced by SOC WRK 791 or SOC WRK 932)	1-3
	Elective (replaced by doctoral elective)	3
	Elective (replaced by doctoral elective)	3
<b>Total Credits</b>		<b>12</b>

A minimum of 40 credits of PhD-level course work is required. At least 31 of these must be earned in residence at UWM. Required courses include:

Code	Title	Credits
<b>Foundation</b>		
SOC WRK 901	Philosophy of Science	3
<b>Specialization Seminars</b>		
9 credits required, 3 from student's area of specialization		9
SOC WRK 931	Theories of Poverty and Social Welfare Policy	
SOC WRK 932	Theories and Research on Behavior Change	

SOC WRK 945	Family and Long-Term Care Across the Life Course	
SOC WRK 791	Current Topics in Social Work: (Multigenerational Policies and Services)	
SOC WRK 791	Current Topics in Social Work: (Child and Family Wellbeing)	
SOC WRK 791	Current Topics in Social Work: (Criminal Justice Practice and Policy)	

**Research Methods**

SOC WRK 951	Quantitative Research Methods	3
SOC WRK 952	Qualitative Research Methods in Social Work	3

**Statistics**

SOC WRK 961	Introduction to Statistical Methods	4
SOC WRK 962	Applied Multiple Regression Analysis	3

**Research Methods or Statistics Electives**

SOC WRK 963	Measurement Methods and Related Multivariate Statistics	3
SOC WRK 964	Advanced Statistical Methods	3

**Proseminars**

SOC WRK 991	Doctoral Proseminar: (Proseminar in Research Ethics)	1
SOC WRK 991	Doctoral Proseminar: (Proseminar in Grantwriting)	1
GRAD 803	Teaching & Learning in College: Reflections on Theory and Practice	1

**Practicum**

Accompanies first teaching and research assistantships		
SOC WRK 999	Independent Reading in Social Work (Teaching)	1-3
or CRM JST 999	Independent Reading in Criminal Justice	
SOC WRK 999	Independent Reading in Social Work (Research)	1-3
or CRM JST 999	Independent Reading in Criminal Justice	

**Electives**

Two approved external doctoral-level courses in area of specialization (2-3 credits each)	4-6
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**Total Credits** **40-42**

## Additional Requirements

### Preliminary Examination

All students must pass a preliminary examination subsequent to successfully completing all required course work and prior to being admitted to doctoral candidacy (see <http://uwm.edu/socialwelfare/preliminary-examination/>). The examination assesses students' ability to articulate their research interests, analyze and synthesize empirical knowledge and relevant theoretical concepts, explain how theory may affect the generation of knowledge, and show familiarity with relevant scientific methodologies. In keeping with Graduate School rules, the preliminary examination should be completed within five years of enrollment.

Prior to initialing the preliminary examination, students must complete an application for the examination through the Graduate School's Milestones system. Students who fail the preliminary examination may not proceed to the dissertation. The exam may be retaken only once. Complete

policies regarding forming a preliminary examination committee, writing the proposal, and taking the examination are available in the Social Welfare PhD program handbook.

### Dissertation Proposal Defense

All students must successfully complete an oral defense of their dissertation proposal to determine their preparation for independent research. The defense must be completed successfully within four years of initial enrollment.

### Dissertation

Students who have successfully completed the Preliminary Examination and a one-page preliminary dissertation proposal are formally admitted to doctoral candidacy. In accordance with Graduate School policies, students must then register for three research or thesis/dissertation credits each semester until the dissertation is submitted to the Graduate School. To meet the requirements for the dissertation, the candidate must complete an original independent research project that adds meaningfully to the existing body of knowledge in social welfare. It should be of a caliber that warrants publication in respected journals in the field.

### Dissertation Defense

As the final step toward the degree, the candidate must pass an oral examination before their doctoral committee in defense of the dissertation. The examination may also cover general topics relevant to the student's area of study. This requirement may not be completed until all other degree requirements are satisfied.

### Time Limit

It is expected that most students will complete all degree requirements within seven years of initial enrollment in the joint MSCJ/PhD program. All requirements MUST be completed within ten years from the date of initial enrollment.

## Social Work, BS

The bachelor's degree in social work is accredited by the Council on Social Work Education. Its primary objective is to prepare students for beginning generalist social work practice.

The program prepares students for potential employment in both public (federal, state, and county) and private social service agencies. Students are trained to work and affect change among individuals, families, groups, organizations and communities. The program helps prepare students to engage in critical thinking and actively apply research to practice, policy, advocacy, education, and leadership. A sample of career possibilities includes caseworker, psychiatric social worker, youth counselor, and alcohol/drug counselor.

## Requirements

Code	Title	Credits
	General Curriculum Requirements (p. 547)	36
	Major Requirements (p. 548)	55
	General Electives (p. 548)	29
<b>Total Credits</b>		<b>120</b>

## General Curriculum Requirements

For courses that satisfy the distribution requirements in humanities, natural science, and social science, see the GER listing in the current Timetable (<http://www4.uwm.edu/schedule/>). The UWM General

Education Requirements (p. 30) apply to all students who were not enrolled in an accredited institution prior to 1986.

Code	Title	Credits
<b>English</b>		
Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.		
<b>Mathematics</b>		
Refer to Proficiency Requirements in General Education Requirements. Contact a school advisor for specific information.		
<b>Liberal Arts Foundation</b>		
<i>Foreign Language</i>		
Completion of two years of high school-level instruction in a single foreign language, or satisfactory completion of at least two semesters of a single foreign language, or approved demonstration of foreign language ability		
<i>Arts</i>		
	Select 3 credits of General Education-approved arts course in the history, philosophy, theory, or practice of the creative and interpretive arts	3
<i>Humanities</i>		
COMMUN 103	Public Speaking	3
	Select 3 credits of General Education-approved humanities courses	3
<i>Natural Science</i>		
	Select 6 credits of General Education-approved natural science courses to include a lab or field course	6
<i>Social Science</i>		
	Select 6 credits of General Education-approved social science courses	6
<b>Total Credits</b>		<b>21</b>

## Major Requirements

The undergraduate social work major includes a pre-professional component. Freshmen and sophomores may begin to take courses offered in the Helen Bader School of Social Welfare.

Students must complete at least 120 credits to obtain the degree. The major in Social Work requires a minimum of 55 credits in Social Work or Helen Bader School of Social Welfare courses (students can take courses in criminal justice and have them count toward the major as elective credit). The Department requires that students attain at least a 2.5 cumulative GPA, including transfer credits, in order to advance in the major. In addition, students must attain a 2.0 cumulative GPA in order to graduate from UWM.

Code	Title	Credits
<b>Required Courses</b>		
SOC WRK 100	Introduction to Social Work	3
SOC WRK 250	Human Behavior and the Social Environment	3
SOC WRK 260	Case Management in Social Work	3
SOC WRK 270	Advocacy and Empowerment	3
SOC WRK 306	Introduction to Social Welfare Policy	3
SOC WRK 308	Social Work Values and Ethics	3
SOC WRK 310	Social Work Practice I: Individuals and Families <sup>1</sup>	3

SOC WRK 410	Social Work Practice II: Groups <sup>1,2</sup>	3
SOC WRK 421	Field Education & Integrated Field Seminar I <sup>1,2</sup>	5
SOC WRK 422	Field Education & Integrated Seminar II <sup>1,3</sup>	5
SOC WRK 427	Social Work Practice III: Communities and Organizations <sup>1,3</sup>	3
SOC WRK 604	Social Systems and Social Work Practice	3
SOC WRK 662	Methods of Social Welfare Research	3
SOC WRK 665	Cultural Diversity and Social Work	3
<b>Social Work Electives</b>		
Select 9 credits in SOC WRK or CRM JST courses		9
<b>Total Credits</b>		<b>55</b>

<sup>1</sup> Minimum grade of B or better required.

<sup>2</sup> To be taken concurrently.

<sup>3</sup> To be taken concurrently.

No academic credit for life experience and previous work experience is granted in lieu of field placement or course work.

All credit for required courses must have been earned within 10 years of graduation.

## General Electives

Code	Title	Credits
Credits towards the degree not counted in other categories will apply to General Electives. Classes counting towards General Electives may include, but are not limited to:		
ENGLISH 100	Introduction to College Writing and Reading	4
ENGLISH 101	Introduction to College Writing	3
ENGLISH 102	College Writing and Research	3
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
Foreign Language credits		
<b>Total Credits</b>		<b>44</b>

Credits earned in HONORS 687 or HONORS 689 will not count towards the major.

## Fieldwork

The field education sequence required for social work majors consists of two semesters of placement, beginning as early as the junior year. A total of 216 hours in the field is required each of the two semesters. The field courses are taken concurrently with the practice courses. Students are required to maintain a grade of B or better in each social work practice and field course. When a student does not, the student's academic progress is reviewed by the chair of the Social Work Department. In certain cases, the student may be referred to the Faculty Review Panel and may not be allowed to continue in the major.

For further information about fieldwork, consult the Field Staff Office, Enderis Hall, Room 1075, (414) 229-6526.

## Degree Requirements

To receive the bachelor's degree with a social work major, the student must have an overall GPA (including non-UWM college work) of 2.0 and a total of 120 credits. At least 50% of the credits in the social work major must be earned at UWM. Social work students must complete at least one semester of field placement at UWM. Students must earn their last 30 credits at UWM.

## Advancing to the Major

Social Work majors must be formally advanced to the major to begin field placement. This is an automated process that occurs through PAWS upon completion of the requirements listed below. Students who have not yet been advanced to the Social Work major are still able to take a sequence of Social Work courses. The requirements to be advanced to the Social Work major are:

- Completion of 48+ credits
- Completion of SOC WRK 100, SOC WRK 250, and SOC WRK 306
- Cumulative GPA of 2.5 or higher, including all transfer work

All of these requirements must be satisfied to be advanced into the major. Students may appeal to be advanced into the major if they fail to meet one or more of the requirements listed above. This should be done in consultation with an academic advisor in the Helen Bader School of Social Welfare.

## Undergraduate Academic Advising

The Office of Student Services in the Helen Bader School of Social Welfare, located in the Northwest Quadrant Building D 3rd Floor, offers undergraduate student academic advising from professional advisors who are familiar with the Social Work and Criminal Justice & Criminology curriculum, College requirements, and university policies. Advisors can also provide information on scholarship opportunities, tutoring, and student organizations that align with a student's interests.

These advisors provide services such as new freshman orientation, course selection, assistance with registration, and review of transfer credit. Students are assigned to a permanent professional advisor upon admittance into the Helen Bader School of Social Welfare and are encouraged to meet with their academic advisor at least once each semester. Please call (414) 229-4852 to schedule an appointment or for more information.

## Transfer Students

The Helen Bader School of Social Welfare welcomes students from other academic areas on the UWM campus and students transferring to UWM from other institutions. Students planning to transfer into either major from another institution should meet with an academic advisor as soon as they are admitted and the transfer credit evaluation process has been completed. During this meeting, the student and advisor will review transfer course equivalencies, discuss program requirements, and create an academic plan for coming semesters. Students may meet with their advisor in person or by phone. Please call (414) 229-4852 to schedule an appointment or for more information.

## Honors in the Major

Honors in the Major is granted to students who have earned a GPA of 3.500 or above in all major courses taken in residence at UWM. A minimum of 28 Social Work credits or 24 Criminal Justice credits completed in residence are needed to be considered for Honors in the Major.

## High Honors in the Major

High Honors in the Major is granted to students who have earned a GPA of 3.750 or above in all major courses taken in residence at UWM. A minimum of 28 Social Work credits or 24 Criminal Justice credits completed in residence are needed to be considered for Honors in the Major.

## College of Community Engagement and Professions Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Contact Information

### Office of Student Services

Enderis Hall, 1110  
2400 E Hartford Ave.

## Social Work, MSW

## Related Certificates

- Applied Gerontology (p. 541)
- Non-Profit Management (p. 1274)
- Trauma-Informed Care (p. 376)
- Women's Studies (p. 1328)

## State of Wisconsin Credentials

- School Social Work Certification (<http://uwm.edu/socialwelfare/academics/school-social-work/>)

- Substance Abuse Certification (<http://uwm.edu/socialwelfare/academics/substance-abuse-certification-sac/>)

## Overview

The Helen Bader School of Social Welfare (HBSSW) offers a program of graduate studies in social work. As a department in an urban research university, the mission of the Department of Social Work is to promote positive change through social work research, scholarship, education, and community partnerships. The Department promotes the values of the social work profession through a commitment to social justice and diversity, a dedication to public service, and an emphasis on individual and community well-being. The goal of the MSW program is to prepare graduates with specialized knowledge and skills for advanced practice and leadership with diverse populations and communities.

In furtherance of its mission, the goals of the Social Work Department are:

1. To educate students to become highly skilled, culturally competent, and ethical social workers and to provide leadership for the practice of social justice.
2. To create and disseminate knowledge leading to social work and inter-disciplinary innovations.
3. To engage in research and apply results that inform social work policy, practice, advocacy, education, and future research.
4. To collaborate with community partners in promoting evidence-informed practice, educational and research partnerships, and social and economic justice.

HBSSW offers students access to the University computer system, special interview training rooms, and specialized audiovisual materials.

The MSW curriculum is designed to prepare students for advanced-level professional Social Work practice, and builds upon a solid base of coursework in human behavior, practice methods, research, and policy. The MSW program is accredited by the Council on Social Work Education and can prepare students for state certification requirements.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applications will be made to both the Graduate School and the MSW program via a single application in the UWM Graduate School Panthera system. The MSW program accepts applications for the Fall semester only. MSW applications open in the Panthera system October 1. For priority consideration, applications are due by January 3. Second priority applications are due by the final deadline of March 1. Applicants must meet Graduate School and MSW program requirements for admission, including:

1. Undergraduate grade point average of 2.75 or better.
2. Completion of at least 21 semester credits in the social and behavioral sciences (i.e., psychology, sociology, political science, economics, anthropology, and/or their equivalents).

3. Submission of a program application which includes two letters of recommendation, a narrative statement, and a comprehensive professional resume.

*Please see complete requirements and instructions for applying on the MSW program web page (<http://uwm.edu/socialwelfare/academics/msw-in-social-work/>) before starting an application.*

## Credits and Courses

The MSW program requires a minimum of 34 graduate credits for students admitted to the Advanced Curriculum. Students may be required to complete up to 22 credits to fulfill the Professional Foundation prior to beginning the Advanced Curriculum. The minimum 34 Advanced Curriculum credit requirements are distributed as follows:

Code	Title	Credits
<b>Required</b>		
SOC WRK 722	Field Instruction II	3
SOC WRK 821	Field Instruction III	3
SOC WRK 822	Field Instruction IV <sup>1</sup>	3
SOC WRK 711	Direct Social Work Practice I	3
SOC WRK 712	Advanced Practice and Leadership in Organizations and Communities	3
SOC WRK 795	Evaluation of Social Work Practice and Programs	3
SOC WRK 851	Social Issue and Policy Analysis:	3
<b>Electives</b>		
Select 13 credits of graduate social work electives <sup>2</sup>		13
<b>Total Credits</b>		<b>34</b>

<sup>1</sup> The capstone requirement is satisfied by SOC WRK 822.

<sup>2</sup> Electives outside of social work can be approved by advisor.

## Professional Foundation

Students admitted into the graduate social work program without having earned a bachelor's degree from an accredited social work program within the past 5 years are required to fulfill the Professional Foundation prior to Advanced Curriculum coursework (see below for exemptions). The purpose of the Professional Foundation is to orient students to the profession and to provide a knowledge, values and skills base in preparation for the Advanced Curriculum. Coursework in the Professional Foundation is not included in the 34 Advanced Curriculum credits required for completion of the MSW degree. The Professional Foundation courses are:

Code	Title	Credits
SOC WRK 604	Social Systems and Social Work Practice	3
SOC WRK 662	Methods of Social Welfare Research	3
SOC WRK 665	Cultural Diversity and Social Work	3
SOC WRK 705	Individual Behavior and Social Welfare	3
SOC WRK 708	Social Work Methods I: Individuals and Families	3
SOC WRK 709	Social Work Methods II: Groups, Organizations and Communities	3
SOC WRK 721	Field Instruction I	3

SOC WRK 750	Social Welfare Policy Development and Implementation	3
<b>Total Credits</b>		<b>24</b>

### Exemptions

Students who have, within the 5 years preceding admission, completed coursework which substantially duplicates Professional Foundation courses may apply to the MSW Program Coordinator for an exemption from the relevant courses. Exemption examinations are also offered on a scheduled basis for these courses. Exemption of the field experience (SOC WRK 721) may be permitted under special employment experience circumstances and only by permission of the Director of Field Programs. Students interested in securing an exemption should request course exemption forms upon notification of admission to the program.

All requests for exemptions must be made at the time of initial enrollment. Exemption requests will not be accepted following the end of the first semester of coursework.

### Elective Pathways

The MSW Program at UWM is anchored in core courses that build knowledge and skills in crucial advanced social work competencies. Students will build Advanced Generalist competencies related to social work practice with individuals, families, groups, organizations and communities, as well as knowledge and skills in the areas of social welfare policy, social justice, and evaluation of practice and programs.

### Traditional Program Students (Campus-based)

Beyond the curriculum core, students may choose electives that build a pathway of emphasis for their MSW Degree in areas related to child and family well-being, behavioral and mental health, gerontology, physical health, school social work, clinical social work practice, substance abuse counseling and trauma-informed care. Alternately, students can also choose to build a pathway with varied electives of their choice to broaden and diversify their knowledge and skills across multiple areas of advanced social work practice.

With careful faculty advising, students are able to develop a course of study that builds upon their individualized interests, experiences and strengths.

### Online Program Students

Online Program students will take a standard set of elective courses built into their cohort's course plan. Elective courses are selected to represent a spectrum of advanced topics relevant to broad-based social work practice.

## Additional Requirements

### Advising

MSW students will work with the MSW Advisor for course and curriculum planning, including appropriately sequenced courses and electives for meeting a student's desired pathway. Additionally, all students will be assigned a faculty member advisor with whom they may consult regarding career pathway development and professional guidance and support.

### Time Limit

Students admitted directly into the Advanced Curriculum must complete all degree requirements within seven years of initial enrollment; students required to complete any portion of the Professional Foundation must complete all degree requirements within seven years of initial enrollment.

## Social Work, MSW/Criminal Justice and Criminology, MS

Both departments in the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice, or social work with a focus on criminal justice (e.g., corrections, juvenile justice, probation and parole, etc).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice & Criminology and the MSW program in the Helen Bader School of Social Welfare.

## Credits and Courses

Students accepted into this MS/MSW program complete the following courses:

Code	Title	Credits
<b>Criminal Justice &amp; Criminology</b>		
CRM JST 773	Criminological Perspectives (G)	3
CRM JST 743	Proseminar: Administration of Criminal Justice Systems (G)	3
CRM JST 756	Proseminar: Analysis of Criminal Justice Research (G)	3
Select 12 additional credit hours of courses within the criminal justice & criminology program		12
Select 12 credit hours of Social Work courses with the consent of the student's advisor		
Students must complete the requirements of the Essay Option or Non-Essay Option as the degree capstone		
<b>Social Work Foundation Curriculum (required before the Advanced Curriculum for students without a bachelor's degree in social work)</b>		
SOC WRK 604	Social Systems and Social Work Practice (U/G)	3
SOC WRK 662	Methods of Social Welfare Research (U/G)	3
SOC WRK 665	Cultural Diversity and Social Work (U/G)	3
SOC WRK 705	Individual Behavior and Social Welfare (G)	3
SOC WRK 708	Social Work Methods I: Individuals and Families (G)	3
SOC WRK 709	Social Work Methods II: Groups, Organizations and Communities (G)	3
SOC WRK 721	Field Instruction I (G)	3
SOC WRK 750	Social Welfare Policy Development and Implementation (G)	3

**Social Work Advanced Practice Curriculum***Required Core Courses*

SOC WRK 711	Direct Social Work Practice I	3
SOC WRK 712	Advanced Practice and Leadership in Organizations and Communities	3
SOC WRK 795	Evaluation of Social Work Practice and Programs	3
SOC WRK 851	Social Issue and Policy Analysis:	3

*Required Field Placement Courses*

SOC WRK 722	Field Instruction II	3
SOC WRK 821	Field Instruction III	3-4
SOC WRK 822	Field Instruction IV	3-4

**Electives**

Select 6 credits of electives from CJC courses in consultation with advisor	
Remaining elective credits for MSW degree selected from Social Work graduate courses in consultation with MSW advisor	7

**Total Credits** **73-75**

**Total Credits for Coordinated Degree: 73** (without a BSW) **or 49** (with a BSW).

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. Degrees will be awarded simultaneously.

A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

## Additional Requirements

### Time Limit

Students in the coordinated MS/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Social Work, MSW/Public Health, MPH

The Zilber College of Public Health and the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical, research-based policy and practice knowledge and accompanying skill sets, to address health inequities and inequalities and respond to the health and well-being needs of communities at the local, regional, national and international arenas.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students are admitted to each graduate program separately and based on admission requirements which are consistent with those specified

by the UWM Graduate School, the MPH program in the Zilber College of Public Health, and the MSW program of the Department of Social Work.

## Credits and Courses

Students accepted into this MPH/MSW program complete the following courses:

### Master of Public Health (MPH)

**Required Common Core Courses (24-25 Credits)**

Code	Title	Credits
<b>Required Common Core Courses</b>		
PH 702	Introduction to Biostatistics	3
PH 703	Environmental Health Sciences	3
PH 704	Principles and Methods of Epidemiology	3
PH 705	Principles of Public Health Policy and Administration	3
PH 706	Perspectives on Community & Behavioral Health	3
PH 708	Health Systems and Population Health	3
PH 733	Overview of Qualitative Methods for Public Health *	1
PH 791	Leadership in Public Health	1
PH 800	Capstone in Public Health	2
SOC WRK 823	Coordinated Public Health and Social Work Field Education **	3
<b>Total Credits</b>		<b>25</b>

\* Students in the PHP Track take PH 776 Qualitative Approaches in Public Health Policy instead of PH 733. Students in the CBHP Track may take PH 776 Qualitative Approaches in Public Health Policy as an elective instead of PH 733.

\*\* SOC WRK 823 satisfies the PH 790 Field Experience for MPH/MSW students.

**Students specialize in one of the two public health tracks of study:**

- Community and Behavioral Health Promotion
- Public Health Policy

**Community and Behavioral Health Promotion Track (24 credits)**

In addition to the common MPH core classes, students complete:

Code	Title	Credits
<b>Required Courses</b>		
PH 700	Structures of Inequality and Population Health	3
PH 725	Theories and Models of Health Behavior	3
PH 726	Community Health Assessment	3
PH 727	Program Planning & Implementation in Public Health	3
PH 728	Program Evaluation in Public Health	3
<b>Electives (see table below)</b>		<b>9</b>
<b>Total Credits</b>		<b>24</b>



**Community and Behavioral Health Promotion Electives**

Code	Title	Credits
<b>Methods "S" Electives 6</b>		
Select two of the following courses:		
PH 729	Survey Research Methods in Public Health	3
PH 776	Qualitative Approaches in Public Health Policy	3
PH 831	Community Engagement and Participatory Research Approaches in Public Health	3
<b>Electives 3</b>		
Select one of the following courses:		
PH 719	Social Justice in Public Health	3
PH 730	Overview of Children with Special Health Care Needs	3
PH 740	Special Topics in Public Health:	1-3
PH 752	Public Health and Mental Health	3
PH 820	Maternal and Child Health Foundations, Policy and Practice	3
PH 999	Independent Study	1-3
Other courses as approved by advisor.		

**Public Health Policy Track (24 credits)**

In addition to the common MPH core classes, students complete:

Code	Title	Credits
<b>Required Courses</b>		
PH 776	Qualitative Approaches in Public Health Policy	3
PH 777	Quantitative Research Methods for Public Health Policy	3
PH 779	Public Health Policymaking and Policy Analysis	3
PH 785	Principles of Public Health Economics	3
<b>Electives (see table below)</b>		<b>12</b>
<b>Total Credits</b>		<b>24</b>

**Public Health Policy Electives**

Code	Title	Credits
<b>Content Elective 3</b>		
Select one of the following courses:		
ED POL 630G	Race, Ethnicity, and Public Policy in Urban America	3
PH 700	Structures of Inequality and Population Health	3
PH 719	Social Justice in Public Health	3
PH 730	Overview of Children with Special Health Care Needs	3
PH 752	Public Health and Mental Health	3
PH 769	Critical Perspectives on Nutritional Epidemiology and the Food System	3
PH 784	Social and Economic Policy as Health Policy	3
PH 820	Maternal and Child Health Foundations, Policy and Practice	3

PH 859	Racial/Ethnic Health Disparities in the United States	3
<b>Methods and Practice Elective 9</b>		
Select three of the following courses:		
BUS ADM 755	Health Care Administration and Delivery Systems	3
BUS ADM 766	Marketing for Nonprofit Organizations	3
ED POL 601	Foundations of Community-Based Organizations	3
ED POL 602	Proposal Writing and Fundraising Skills for Community-Based Organizations	3
NONPROF 791	Nonprofit Advocacy and Public Policy	3
PH 726	Community Health Assessment	3
PH 727	Program Planning & Implementation in Public Health	3
PH 728	Program Evaluation in Public Health	3
PH 729	Survey Research Methods in Public Health	3
PH 763	Epidemiology for Equity	3
PUB ADM 630	Budgeting and Finance in the Public Sector	3
PUB ADM 763	Scope and Dynamics of Public Administration	3
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	3
Other courses as approved by advisor.		

**Total MPH Degree Credits Required: 48-49 Credit Hours**  
**Master of Social Work (MSW)**

Code	Title	Credits
<b>Foundation Curriculum</b>		
SOC WRK 604	Social Systems and Social Work Practice	3
SOC WRK 662	Methods of Social Welfare Research	3
SOC WRK 665	Cultural Diversity and Social Work	3
SOC WRK 705	Individual Behavior and Social Welfare	3
SOC WRK 708	Social Work Methods I: Individuals and Families	3
SOC WRK 709	Social Work Methods II: Groups, Organizations and Communities	2
SOC WRK 721	Field Instruction I	3
SOC WRK 750	Social Welfare Policy Development and Implementation	2
<b>Advanced Practice Curriculum</b>		
SOC WRK 711	Direct Social Work Practice I	3
SOC WRK 712	Advanced Practice and Leadership in Organizations and Communities	3
SOC WRK 795	Evaluation of Social Work Practice and Programs	3
SOC WRK 851	Social Issue and Policy Analysis:	3
<b>Field Courses</b>		
SOC WRK 722	Field Instruction II	3
SOC WRK 822	Field Instruction IV	3
SOC WRK 823	Coordinated Public Health and Social Work Field Education	3

Electives (see table below)	4
<b>Total Credits</b>	<b>47</b>

### Electives

Code	Title	Credits
Choose at least two courses:		
SOC WRK 630G	Families and Poverty	2-3
SOC WRK 680G	Death and Dying	3
SOC WRK 685G	Social Gerontology	3
SOC WRK 690G	Mindfulness and Community Building	3
SOC WRK 753	Adult Psychopathology	3
SOC WRK 754	Child and Adolescent Psychopathology	2
SOC WRK 765	Social Work Boundaries and Ethics in Professional Practice	2-3
SOC WRK 771	Development of the Family Over the Life Span	3
SOC WRK 774	Trauma Counseling I: Theory and Research	3
SOC WRK 775	Trauma Counseling II: Diagnosis and Treatment	3
SOC WRK 791	Current Topics in Social Work:	1-3
SOC WRK 811	Direct Social Work Practice II:	3
SOC WRK 818	Treatment of Co-Occurring Disorders	3
SOC WRK 820	Seminar in Social Work Practice:	2
SOC WRK 855	Practice Skills and Concepts for Aging and Health	3
SOC WRK 999	Independent Reading in Social Work	1-3
Other courses as approved by advisor.		

### Total Degree Credits Required:

- (1) With BSW: 34 cr. (includes 9 cr. satisfied by public health credits)
- (2) Without BSW: 56 cr. (includes 9 cr. satisfied by public health credits)

### Total Credits for Coordinated Degree Program:

- (1) With BSW: 73 - 74 cr.
- (2) Without BSW: 95 - 96 cr.

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

## Additional Requirements

### Time Limit

Students in the coordinated MPH/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Social Work, MSW/Social Welfare, PhD

### Related Certificates

- Applied Gerontology (p. 541)
- Non-Profit Management (p. 1274)
- Trauma-Informed Care (p. 376)
- Women's Studies (p. 1328)

### State of Wisconsin Credentials

- School Social Work Certification (<http://uwm.edu/socialwelfare/academics/school-social-work/>)
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### Overview

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### Admission

Relevant application materials must be submitted to both the Graduate School and HBSSW and will be accepted for admission in the Fall semester only. All applications must be completed and submitted on or before January 2. Applications received after January 2 will be considered only if space is available after other applications are reviewed.

Students who apply and are accepted to the joint MSW/PhD program will be able to earn both the Master of Social Work and Doctor of Philosophy in Social Welfare and will not be required to apply to the PhD program after earning the MSW degree, assuming their progress is satisfactory. Applicants who are not offered admission to the joint program will still be considered for admission into the MSW-only program.

All applicants must meet Graduate School requirements plus the following HBSSW requirements:

1. Have an undergraduate grade point average of 2.75 or better.
2. Have completed at least 21 semester credits in the social and behavioral sciences (i.e., psychology, sociology, political science, economics, anthropology, and/or their equivalents).
3. Indicate the following In the Personal Statement section of the Graduate School application form:
  - Which of the program’s four areas of specialization (Applied Behavioral Health, Applied Gerontology, Criminal Justice, or Family and Child Welfare) they wish to pursue.
  - Their reasons for seeking a doctoral degree in social welfare.
  - Their goals as future scholars.
  - topic or issue in the field that they consider to be particularly challenging and worthy of study.
4. In materials submitted to the HBSSW, applicants must:
  - Provide a current copy of a professional résumé or curriculum vitae. This should contain information on:
  - All post-secondary education, including institutions, degrees and dates of completed programs of study, plus institutions, dates, and types of study that did not lead to a degree.
  - All employment by the applicant in social work or criminal justice and related areas, including dates and employing organizations.
  - Employment unrelated to social work or criminal justice within the past five years.
  - Information on any past or current professional licenses held.
5. Submit scores from within the past five years on the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>) General Test.
6. Submit three letters of recommendation from persons familiar with the applicant’s achievements and academic potential, including at least one current or former academic instructor.
7. Submit a sample of written work that demonstrates: the applicant’s knowledge of social science theory, practice, and research; ability to think analytically; and writing skills. The sample should be at least 1000 words in length and represent work for which the applicant was the sole author, or if it is jointly authored should indicate which sections were primarily done by the applicant.

### Advisement

The HBSSW will assign each MSW/PhD student a major professor. This assignment is based on congruence between the applicant’s interests and the expertise of the major professor. In consultation with the director of the PhD program, the student may change major professors after beginning the program, but no applicant will be admitted unless a

doctoral faculty member in social welfare agrees to serve as major professor.

### Financial Assistance

Through a combination of tuition remission, teaching assistantships, research assistantships, fellowships, and other options, the program will attempt to provide financial assistance to all admitted students during their first four years in the program. Applicants needing additional information on other sources of financial assistance, such as student loans, should contact the campus’s Office of Financial Aid.

## Credits and Courses

### MSW Requirements

The MSW portion of the joint curriculum requires a minimum of 22 graduate credits for students admitted to the Advanced Curriculum. Another 12 credits normally required in the Advanced Curriculum will be replaced by the same number of Ph.D- level credits. Students admitted into the joint curriculum who have not earned a bachelor’s degree from an accredited social work program within the past five years are required to complete 22 credits in the Professional Foundation prior to beginning courses in the Advanced Curriculum.

### Professional Foundation

The purpose of the Professional Foundation is to orient students to the profession and to provide a knowledge, values and skills base for later course. Credits in the Professional Foundation are not included in the 22 Advanced Curriculum credits required for completion of the MSW degree, nor do they apply to the required 12 Ph.D-level credits.

Code	Title	Credits
SOC WRK 604	Social Systems and Social Work Practice	3
SOC WRK 662	Methods of Social Welfare Research	3
SOC WRK 665	Cultural Diversity and Social Work	3
SOC WRK 705	Individual Behavior and Social Welfare	3
SOC WRK 708	Social Work Methods I: Individuals and Families	3
SOC WRK 709	Social Work Methods II: Groups, Organizations and Communities	2
SOC WRK 721	Field Instruction I	3
SOC WRK 750	Social Welfare Policy Development and Implementation	2

### MSW-level Advanced Curriculum

Code	Title	Credits
SOC WRK 711 or SOC WRK 713	Direct Social Work Practice I Community Organization, Planning and Human Service Administration I	3
SOC WRK 722	Field Instruction II	3
SOC WRK 753	Adult Psychopathology	3
SOC WRK 811	Direct Social Work Practice II:	3
SOC WRK 820	Seminar in Social Work Practice:	2
SOC WRK 821	Field Instruction III	4
SOC WRK 822	Field Instruction IV	4

**Total Credits 22**

**MSW courses in the Advanced Curriculum to be replaced by PhD-level courses are:**

- SOC WRK 793 replaced by SOC WRK 961
- SOC WRK 794 replaced by SOC WRK 951 or SOC WRK 952
- SOC WRK 851 (subtitled) replaced by SOC WRK 931 or SOC WRK 945
- SOC WRK 791 replaced by SOC WRK 901 or SOC WRK 932
- SOC WRK 791 replaced by SOC WRK 963 or doctoral elective

### Exemptions

Students who have, within the 5 years preceding admission, completed coursework which substantially duplicates MSW Professional Foundation courses may apply to the Chair of the Social Work Department for an exemption from the relevant courses. Exemption examinations are also offered on a scheduled basis for these courses. Exemption of the field experience (SOC WRK 721) may be authorized by the Director of Field Programs for students having sufficient supervised employment experience. Students interested in securing an exemption should request course exemption forms upon notification of admission to the program.

All requests for exemptions must be made at the time of initial enrollment. Exemption requests will not be accepted following the end of the first semester of coursework.

### PhD Requirements

A minimum of 39 credits of PhD-level coursework is required. At least 33 of these must be earned in residence at UWM. Required courses include:

Code	Title	Credits
<b>Foundation</b>		
SOC WRK 901	Philosophy of Science	3
<b>Specialization Seminars</b>		
Select 9 credits (3 from area of specialization) Examples include:		9
SOC WRK 931	Theories of Poverty and Social Welfare Policy	
SOC WRK 932	Theories and Research on Behavior Change	
SOC WRK 945	Family and Long-Term Care Across the Life Course	
SOC WRK 791	Current Topics in Social Work: (Family and Child Welfare Specialization)	
<b>Research Methods</b>		
SOC WRK 951	Quantitative Research Methods	3
SOC WRK 952	Qualitative Research Methods in Social Work	3
<b>Statistics</b>		
SOC WRK 961	Introduction to Statistical Methods	4
SOC WRK 962	Applied Multiple Regression Analysis	3
SOC WRK 963	Measurement Methods and Related Multivariate Statistics	3
SOC WRK 964	Advanced Statistical Methods	3
<b>Proseminars and Independent Study</b>		
SOC WRK 991	Doctoral Proseminar: (Research Ethics)	1
SOC WRK 991	Doctoral Proseminar: (Grantwriting)	1
SOC WRK 991	Doctoral Proseminar: (Teaching)	1
SOC WRK/CRM JST 999	Independent Reading in Social Work	1-3
<b>Electives</b>		
Select two approved external doctoral-level courses in area of specialization (2-3 cr. each)		4-6
<b>Total Credits</b>		<b>39-43</b>

## Additional Requirements

### Preliminary Examination

All students must pass a preliminary examination subsequent to successfully completing all required coursework and prior to being admitted to doctoral candidacy. The examination assesses students' ability to articulate their research interests, analyze and synthesize empirical knowledge and relevant theoretical concepts, explain how theory may affect the generation of knowledge, and show familiarity with relevant scientific methodologies. In keeping with Graduate School rules, the preliminary examination should be completed within five years of enrollment.

An Application for the Doctoral Preliminary Examination (<http://uwm.edu/graduateschool/doctoral-requirements/>) must be completed by the student and signed and submitted to the PhD Program Committee by the major professor six weeks prior to the first examination. Students who fail the preliminary examination may not proceed to the dissertation. The exam may be retaken only once. Complete policies regarding forming a preliminary examination committee, writing the proposal, and taking the examination are available in the Social Welfare PhD program handbook.

### Dissertation Proposal Defense

All students must successfully complete an oral defense of their dissertation proposal to determine their preparation for independent research. The defense must be completed successfully within four years of initial enrollment.

### Dissertation

Students who have passed the Preliminary Examination and have submitted a one-page preliminary dissertation proposal are formally admitted to doctoral candidacy. In accordance with Graduate School policies, students must then register for three research or thesis/dissertation credits each semester until the dissertation is submitted to the Graduate School. To meet the requirements for the dissertation, the candidate must complete an original independent research project that adds meaningfully to the existing body of knowledge in social work or criminal justice. It should be of a caliber that warrants publication in respected journals in the field.

### Dissertation Defense

As the final step toward the degree, the candidate must pass an oral examination before his/her doctoral committee in defense of the dissertation. The examination may also cover general topics relevant to the student's area of study. This requirement may not be completed until all other degree requirements are satisfied.

### Residence

Students must meet minimum Graduate School residency requirements.

### Time Limit

It is expected that most students will complete all degree requirements within seven years of initial enrollment in the joint MSW/PhD program. All requirements MUST be completed within ten years from the date of initial enrollment.

## Social Work, MSW/Women's and Gender Studies, MA

The College of Letters and Science and the Helen Bader School of Social Welfare located in the College of Community Engagement & Professions collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice

and the field of feminist research and scholarship. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students are admitted to both graduate programs separately, and admission requirements (<http://uwm.edu/graduateschool/admission/>) are consistent with those specified by the UWM Graduate School, the MA in Women’s and Gender Studies (p. 1329) program in the College of Letters and Science, and the MSW in Social Work (<http://uwm.edu/graduateschool/social-work/>) of the Helen Bader School of Social Welfare.

## Credit and Courses

The MA in Women’s and Gender Studies (WGS) normally has a minimum requirement of 30 credits from Women’s and Gender Studies courses. For the coordinated WGS MA/MSW degree program, however, students can substitute 6 credits in Social Work courses for 6 credits of WGS courses. Similarly, the Social Work master’s program will accept 6 credits of WGS course work to satisfy the 6 required elective credits for the MSW degree. Because the MSW degree has a distinction in the number of credits required depending on bachelor’s degree type, the total number of credits required to complete the Coordinated WGS/MSW program will range from 52 credits (24 from WGS and 28 from MSW when holding a bachelor’s in social work) to 76 credits (24 from WGS and 52 from MSW when a bachelor’s degree is from another discipline and needing to complete the Foundation Curriculum in addition to the Advanced Curriculum).

## Women’s and Gender Studies

Code	Title	Credits
<b>Required</b>		
WGS 700	Feminist Issues and Scholarship	3
WGS 701	Feminisms in Global Context	3
WGS 710	Advanced Feminist Theory	3
WGS 711	Feminist Epistemologies and Research Practices	3
WGS 740	Advanced Queer Theory	3
Select one G or U/G WGS course <sup>1</sup>		3
<b>Electives</b>		
Select 6 elective credits in WGS or WGS cross-listed courses (not SOC WRK), in consultation with the WGS Director of Graduate Studies. Of these electives, 3 credits may be thesis credits (WGS 990).		6
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> Excluding WGS 497, WGS 700, WGS 990, and WGS 999.

Total WGS credits: 24 (maximum of 6 U/G cr; and maximum 3 cr of WGS 999)

## Master of Social Work

Code	Title	Credits
<b>Social Work Foundation Curriculum (required before the Advanced Curriculum for students without a bachelor’s degree in social work)</b>		
SOC WRK 604	Social Systems and Social Work Practice (U/G)	3
SOC WRK 662	Methods of Social Welfare Research (U/G)	3
SOC WRK 665	Cultural Diversity and Social Work (U/G)	3
SOC WRK 705	Individual Behavior and Social Welfare (G)	3
SOC WRK 708	Social Work Methods I: Individuals and Families (G)	3
SOC WRK 709	Social Work Methods II: Groups, Organizations and Communities (G)	3
SOC WRK 721	Field Instruction I (G)	3
SOC WRK 750	Social Welfare Policy Development and Implementation (G)	3

### Social Work Advanced Practice Curriculum

#### Required Core Courses

SOC WRK 711	Direct Social Work Practice I (G)	3
SOC WRK 712	Advanced Practice and Leadership in Organizations and Communities	3
SOC WRK 795	Evaluation of Social Work Practice and Programs	3
SOC WRK 851	Social Issue and Policy Analysis: (Subtitled) (G)	3

#### Required Field Placement Courses

SOC WRK 722	Field Instruction II	3
SOC WRK 821	Field Instruction III	3-4
SOC WRK 822	Field Instruction IV	3-4

#### Electives

Select 6 credits from Women’s and Gender Studies courses in consultation with faculty advisor

Remaining elective credits for MSW degree selected from Social Work graduate courses in consultation with MSW advisor	7
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**Total Credits 52-54**

**Minimum Total Credits for Coordinated Program: 52 (for those admitted to the MSW Social Work Advanced Curriculum - Advanced Standing).**

**For students without a social work baccalaureate or otherwise needing the Foundation Coursework, the total credits will sum to 76.**

## Additional Requirements

### Time Limit

Students in the coordinated MA/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Suicide Prevention Across the Lifespan, Undergraduate Microcredential

This microcredential offers the opportunity to gain knowledge and skills in social work and related fields in working with client systems affected by suicide. A focus on human behavior in the social environment is first examined, followed by specific knowledge and skills on the epidemiology, assessment, and prevention of suicide across the lifespan.

### Requirements

Code	Title	Credits
<b>Required Courses</b>		
SOC WRK 250	Human Behavior and the Social Environment	3
SOC WRK 591	Special Topics: Social Welfare and Social Work: (Suicide Prevention: A Life Course Perspective)	3
<b>Total Credits</b>		<b>6</b>

### Admission

This microcredential is available to any interested undergraduate student at the University of Wisconsin-Milwaukee. In addition to taking SOC WRK 250: Human Behavior and the Social Environment and SOC WRK 591: Suicide Prevention: A Life Course Perspective, students would need to satisfy the prerequisite requirement for SOC WRK 250.

## Trauma Informed Care, Graduate Certificate (Helen Bader School of Social Welfare, Department of Social Work)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).

- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

### Credits and Courses

All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

Code	Title	Credits
<b>Core</b>		
SOC WRK/COUNS/NURS/OCCTHPY 774	Trauma Counseling I: Theory and Research	3
SOC WRK/COUNS/NURS/OCCTHPY 775	Trauma Counseling II: Diagnosis and Treatment	3
<b>Electives</b>		
Select 9 elective credits (see Potential Electives and Recommended Field Work lists below)		9
<i>Recommended Field Work</i>		
Select 3-6 credits from the following: <sup>1</sup>		
SOC WRK 721	Field Instruction I	
SOC WRK 722	Field Instruction II	
SOC WRK 821	Field Instruction III	
SOC WRK 822	Field Instruction IV	
SOC WRK 921	Field Instruction V	
COUNS 764	Supervised Practicum 1 in School Counseling	
COUNS 765	Supervised Practicum 1 in Clinical Mental Health Counseling	
NURS 899	Practicum in Nursing:	
OCCTHPY 725	Occupational Therapy Field Service I	
OCCTHPY 735	Occupational Therapy Field Service II	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in in trauma-informed practice field settings, contingent on the respective department's field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Rehabilitation Sciences & Technology—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

### Potential Electives

Code	Title	Credits
SOC WRK/CRM JST 497	Study Abroad: (Bristol or South Africa or Austria)	1-6
SOC WRK 680G	Death and Dying	3
SOC WRK 690G	Mindfulness and Community Building	3

SOC WRK 753	Adult Psychopathology	3
SOC WRK 754	Child and Adolescent Psychopathology	3
SOC WRK 791	Current Topics in Social Work: (subtopic: Technology in Social Work Practice)	3
SOC WRK 818	Treatment of Co-Occurring Disorders	3
SOC WRK 820	Seminar in Social Work Practice: (Qualifying topics: Violent & Traumatized Families; Motivational Interviewing; or Interventions for Substance Misuse and Screening Brief Intervention and Referral to Treatment for Substance Misuse)	3
PSYCH 711	Current Topics in Psychology: (Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning & Memory)	1-4
PSYCH 727	Cognitive Neuroscience	3
MSP 770	Conflict Analysis and Restorative Practices	3
COUNS 704 & COUNS 705	Multicultural Mental Health Guidelines and Ethics Overview and Multicultural Practice: Awareness and Knowledge of Others <sup>1</sup>	6
COUNS 715	Multicultural Counseling	3
COUNS 744	Multicultural Mental Health Guidelines, Working with First Nations Persons	3
COUNS 812	Clinical Studies in Counseling	3
COUNS 816	Counseling Children and Adolescents	3
COUNS 820	Counseling Appraisal and Clinical Decision-Making	3
COUNS 904	Family Systems Theory, Research, and Practice	3
OCCTHPY 519	Therapeutic Communication	3
OCCTHPY 719	Occupational Therapy in Psychosocial Practice	3
CRM JST 830	Intervention Strategies for Correctional Clients	3
CRM JST 970	Readings in Criminal Justice Research: (Qualifying topics: Victimology; Women and the Criminal Justice System)	3

<sup>1</sup> COUNS 704 and COUNS 705 must be taken together to fulfill this requirement.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

## Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# ENGINEERING AND APPLIED SCIENCE (COLLEGE OF)

UWM's College of Engineering & Applied Science is a dynamic research institution with award-winning faculty, state-of-the-art facilities and established business connections that provide context for our work.

One of only two doctorate-granting institutions in the state of Wisconsin, UW-Milwaukee is recognized by the Carnegie Classification of Institutions of Higher Education as one of the nation's top research institutions. UWM's location offers unique benefits to engineering students and faculty alike. Seven Fortune 500 companies' international headquarters are located within easy driving distance of the university – as are many leading manufacturers' facilities.

This has real and lasting impact on the UWM engineering community. Collaborative research, corporate partnerships, and real-world work experience (<http://uwm.edu/engineering/current-students/career-services/co-ops-and-internships/>) are an integral part of the UWM experience.

We invite you to learn more about our research as well as our undergraduate and graduate programs. You'll see why UWM is the right choice when you are ready to build your future and change the world.

## Mission

To educate students to become creative problem solvers, conduct leading-edge research with global impacts, and act as a catalyst for improved economic development and quality of life in Wisconsin.

## Vision

To become a globally prominent engineering education and research institution.

Our location in the major industrial center of the state of Wisconsin offers engineering and computer science students several advantages. Professional engineers and computer scientists from the industrial community share their expertise with the College in the classroom, research laboratory, and on the College's advisory committees. Our very successful co-op and internship programs give students work experience in their field of study before graduation. Many of the projects that students work on in the classroom are real projects brought to us by local companies. In short, Milwaukee-area companies offer our students a real-world laboratory to gain valuable insights and skills in their major field.

## Accreditation

UWM is accredited by the Higher Learning Commission. In addition, the College's bachelor's programs in biomedical engineering, civil engineering, computer engineering, electrical engineering, industrial engineering, materials engineering, and mechanical engineering are accredited by the Engineering Accreditation Commission of ABET. The computer science program is accredited by the Computing Accreditation Commission of ABET. The newer environmental engineering program will be reviewed for accreditation in an upcoming review cycle.

## Departments and Programs

- Biomedical and Health Informatics (p. 562)
  - Biomedical and Health Informatics, PhD (p. 563)
- Biomedical Engineering (p. 568)
  - Biomedical Engineering, BSE (p. 568)
- Civil and Environmental Engineering (p. 571)
  - Civil Engineering, BSE (p. 572)
  - Environmental Engineering, BSE (p. 576)
  - Professional Practice in Civil Engineering Infrastructure, Graduate Certificate (p. 580)
  - Structural Engineering, Minor (p. 581)
- Computer Engineering, BS (p. 581)
- Computer Science (p. 585)
  - Applied Computing, BS (p. 586)
  - Applied Math and Computer Science, BS (College of Engineering and Applied Science, Department of Computer Science) (p. 587)
  - Artificial Intelligence and Machine Learning, Graduate Certificate (Department of Computer Science) (p. 589)
  - Computer Science, BA (p. 590)
  - Computer Science, BS (p. 593)
  - Computer Science, Minor (p. 597)
  - Computer Science, MS (p. 597)
  - Data Science, BS (College of Engineering and Applied Science, Department of Computer Science) (p. 599)
  - Web Development, Undergraduate Certificate (p. 601)
- Electrical Engineering (p. 601)
  - Artificial Intelligence and Machine Learning, Graduate Certificate (Department of Electrical Engineering) (p. 603)
  - Electrical Engineering, BSE (p. 604)
  - Electrical Engineering, Minor (p. 608)
  - Electrical Engineering, PhD (p. 608)
- Engineering and Applied Science (Graduate Programs) (p. 611)
  - Energy Engineering, Graduate Certificate (p. 611)
  - Engineering, MS (p. 612)
  - Engineering, MS/Urban Planning, MUP (p. 614)
  - Engineering, MS: Biomedical Engineering (p. 615)
  - Engineering, MS: Civil Engineering (p. 617)
  - Engineering, MS: Electrical and Computer Engineering (p. 618)
  - Engineering, MS: Energy Engineering (p. 620)
  - Engineering, MS: Engineering Management (p. 622)
  - Engineering, MS: Engineering Mechanics (p. 623)
  - Engineering, MS: Industrial and Systems Engineering (p. 625)
  - Engineering, MS: Manufacturing Engineering (p. 627)
  - Engineering, MS: Materials Engineering (p. 629)
  - Engineering, MS: Mechanical Engineering (p. 630)
  - Engineering, MS: Occupational Biomechanics/Ergonomics (p. 632)
  - Engineering, PhD (p. 634)
  - Engineering, PhD: Biomedical Engineering (p. 636)
  - Engineering, PhD: Civil Engineering (p. 639)
  - Engineering, PhD: Computer Science (p. 641)
  - Engineering, PhD: Electrical Engineering (p. 644)
  - Engineering, PhD: Industrial Engineering (p. 646)



- Engineering, PhD: Materials Engineering (p. 648)
- Engineering, PhD: Mechanical Engineering (p. 651)
- Ergonomics, Graduate Certificate (p. 653)
- Modern Engineering Leadership, Graduate Certificate (p. 654)
- Industrial and Manufacturing Engineering (p. 655)
  - Connected Systems Engineering, MS (p. 655)
  - Industrial Engineering, BSE (p. 657)
  - Industrial Engineering, Minor (p. 660)
- Integrated BS-MS Degree (p. 660)
- Materials Engineering (p. 661)
  - Materials Engineering, BSE (p. 662)
  - Materials Engineering, Minor (p. 665)
- Mechanical Engineering (p. 666)
  - Mechanical Engineering, BSE (p. 667)
  - Mechanical Engineering, Minor (p. 670)
  - Mechanical Engineering, PhD (p. 670)

## Requirements for Employment, Licensing, or Professional Organizations

Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students may be subjected to a check of criminal conviction records prior to acceptance of a student by the placement site. Students are responsible for obtaining the necessary information about these requirements and for planning their studies accordingly. Please contact the appropriate department or program office for further information.

## Administration

**Brett Peters**  
Dean

**Andrew Graettinger**  
Associate Dean for Research

**Prasenjit Guptasarma**  
Associate Dean, Academic and Administrative Affairs

## Student Services

**Steven Anderson**  
Academic Support & Retention Coordinator

**Todd R. Johnson**  
Assistant Dean of Student Services

**Megan Bauski**  
Academic Advisor

**Brandon Clark**  
Academic Advisor

**Tina Current**  
Senior Academic Advisor

**Jennifer Klumpp**  
Senior Academic Advisor

**Julianne Pickering**

Career Services

## Graduate Programs

**Therese Crary**  
Advisor, Graduate Programs

**Robert Packard**  
Advisor, Graduate Programs

## Student Organizations

In addition to the wide variety of activities that are available for all UWM students, CEAS students have the opportunity to participate in many organizations relating to their professional interests. Involvement in these organizations is recognized as a valuable component of their professional education.

## Organizations

AAO - Aeronautics and Aerospace Organization

AFS - American Foundrymen's Society

ASCE - American Society of Civil Engineers

ASM/TMS - Materials Engineering Society

ASME - American Society of Mechanical Engineers

IEEE - Institute of Electrical and Electronic Engineers

IEEE-CS - Institute of Electrical and Electronic Engineers Computer Society

IIE - Institute of Industrial Engineers

ITE - Institute of Transportation Engineers

NSBE - National Society of Black Engineers

RC - Rocket Club

ROV - Remotely Operated Vehicle Team

SAE - Society of Automotive Engineers

SHPE - Society of Hispanic Professional Engineers

SME - Society of Manufacturing Engineers

SWE - Society of Women Engineers

## Professional Fraternity

Triangle

## Honor Societies

Pi Tau Sigma

Tau Beta Pi

## Co-op and Internship Program

In today's competitive job market, it takes more than a college degree to find employment upon graduation. The Career Services Office in the College provides the link between your education and the real world. This office is dedicated to helping all CEAS students secure engineering or computer science-related work experience before graduation, because

related work experience in combination with good academics are the criteria most employers use to select new hires.

The College offers students two ways to gain that experience: internships and co-ops. The principal goals of the programs are to provide career orientation to students and enhance their professional development. All internships and co-ops are paid at a rate commensurate with educational background and experience. For more information, contact the Career Services Office at (414) 229-6960 or ceascareers@uwm.edu.

## Contact Information

### Office of Student Services

Engineering and Mathematical Sciences Building, E386

# Biomedical and Health Informatics Programs

The PhD in Biomedical and Health Informatics (p. 563) is an interdisciplinary doctoral program offered by UWM through collaboration between several academic units at UWM and the Medical College of Wisconsin. The Program is housed in the UWM Department of Electrical Engineering and Computer Science. It is guided by a Steering Committee consisting of faculty from the academic units participating in the Program.

Biomedical and health informatics is a field that is concerned with the cognitive, information processing, and communication aspects of medicine and healthcare including the information sciences and technology to support these tasks. The field covers the application of information technology in clinical medicine, medical record keeping, medical instrumentation, and healthcare management.

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Roshan D'Souza	Associate Professor (College of Engineering and Applied Science)	PhD	University of California Berkeley	✓	
Adam Greenberg	Assistant Professor (Medical College of Wisconsin faculty)	PhD	Johns Hopkins University		
Yi Hu	Assistant Professor (College of Engineering and Applied Science)	PhD	University of Texas at Dallas	✓	
Chiang-Ching Huang	Associate Professor (Zilber School of Public Health)	PhD	University of Michigan-AnnArbor	✓	
Rohit Kate	Assistant Professor (College of Health Sciences)	PhD	University of Texas at Austin	✓	
Chiu-tai Law	Associate Professor (College of Engineering and Applied Science)	PhD	Purdue University	✓	
Jake Luo	Assistant Professor (College of Health Sciences)	PhD	Queen's University, Belfast, U.K.	✓	
Amol Mali	Associate Professor (College of Engineering and Applied Science)	PhD	Arizona State University	✓	
Susan McRoy	Professor (College of Engineering and Applied Science)	PhD	University of Toronto	✓	
Devendra Misra	Professor (College of Engineering and Applied Science)	PhD	Michigan State University	✓	
Ethan Munson	Professor (College of Engineering and Applied Science)	PhD	University of California-Berkeley	✓	
Derek Nazareth	Associate Professor (Lubar School of Business)	PhD	Case Western Reserve University	✓	
Jessica Olson	Assistant Professor (Medical College of Wisconsin faculty)	PhD	Medical College of Wisconsin		
Anna Palatnik	MD, Obstetrics and Gynecology	MD	Sackler School of Medicine at Tel-Aviv University		

Mohammad Habib Rahman	Assistant Professor (College of Engineering and Applied Science)	PhD	Université of Québec, Canada	✓
Nathan Salowitz	Assistant Professor (College of Engineering and Applied Science)	PhD	Stanford University	✓
Mathew Scanlon	Professor (Medical College of Wisconsin faculty)	MD	Loyola Stritch School of Medicine, Chicago	
Atish Sinha	Professor (Lubar School of Business)	PhD	University of Pittsburgh	✓
Ehsan S. Soofi	Professor (Lubar School of Business)	PhD	University of California-Riverside	✓
Yongjin Sung	Assistant Professor (College of Engineering and Applied Science)	PhD	Massachusetts Institute of Technology	✓
AkkeNeel Talsma	Associate Professor (College of Nursing)	PhD	University of Michigan-Ann Arbor	✓
Weizhong Wang	Associate Professor (College of Engineering and Applied Science)	PhD	University of Maryland	✓
Min Wu	Associate Professor (College of Health Sciences)	PhD	University of North Carolina at Chapel Hill	✓
Zeyun Yu	Associate Professor (College of Engineering and Applied Science)	PhD	University of Texas-Austin	✓
Jun Zhang	Professor (College of Engineering and Applied Science)	PhD	Rensselaer Polytechnic Institute	✓
Tian Zhao	Associate Professor (College of Engineering and Applied Science)	PhD	Purdue University	✓

## Biomedical and Health Informatics, PhD

The PhD in Biomedical and Health Informatics is an interdisciplinary doctoral program offered by UWM through collaboration between several academic units at UWM and the Medical College of Wisconsin. The Program is housed in the UWM Department of Electrical Engineering and Computer Science. It is guided by a Steering Committee consisting of faculty from the academic units participating in the Program.

Biomedical and health informatics is a field that is concerned with the cognitive, information processing, and communication aspects of medicine and healthcare including the information sciences and technology to support these tasks. The field covers the application of information technology in clinical medicine, medical record keeping, medical instrumentation, and healthcare management.

The main goal of the PhD program is to prepare graduates to perform advanced research in the discipline and to assume leadership roles in medical and healthcare industries. The degree is philosophically conceptualized as involving several disciplines in a collaborative learning process with the goal of fostering inter-professional interactions and inquiry. This degree will build upon existing graduate programs and research in the participating units. Qualified students with strong academic records in any of these programs will be considered for admission.

Other participating units:

- College of Health Sciences
- College of Nursing
- Lubar School of Business
- School of Information Studies
- Zilber School of Public Health
- The Medical College of Wisconsin

## Requirements

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

An applicant must meet the UWM Graduate School requirements as well as the following to be considered for admission to the program:

Master's degree in biomedical and health informatics or a related area such as Computer Science, Electrical Engineering, Health Sciences, Business Administration, Nursing; or an MD degree. Exceptionally

strong candidates with Bachelor's degree in a related area will also be considered for admission.

1. At least two letters of recommendation that attest to academic and/or professional qualifications.
2. Scores from the GRE (general) or GMAT or MCAT (test taken within the last five years.)

For applicants who intend to satisfy the English proficiency requirement by submission of test scores, a score of at least 79 on the computer-based Test of English as a Foreign Language (TOEFL) IBT is required. A score of 6.5 on the international English Language Testing Systems (IELTS) examination will be required in lieu of the TOEFL.

Requests for financial support must also be submitted below:

Co Director  
Biomedical and Health Informatics Program  
College of Engineering and Applied Science  
University of Wisconsin-Milwaukee  
Milwaukee, WI 53201

## Areas of Concentration

The PhD program requires a student to follow one of the following six areas of concentration. (At the time of application, each applicant should indicate a preferred area of concentration in their statement of Reasons for Graduate Study.)

### Translational Bioinformatics Track

The track in Translational Bioinformatics centers on driving the flow of knowledge from "bench to bedside", bridging the gap between basic and clinical informatics research. This discipline has applications to drug development, genetics research, and the use of animal models to develop new understandings or treatments, which has implications both to basic science and to commercialization.

### Knowledge Based Systems Track

The Knowledge Based Systems track is designed to train students in the development of techniques to support decision-making in medical practice (including both clinical and administrative decision-making) and customized instruction on health and medical topics for patients and health care providers. Technical areas include decision analysis, expected utility theory and cost-effectiveness analysis, computer-based decision support systems, user modeling and user interface design, intelligent tutoring systems, knowledge representation, structured reporting, and data mining and knowledge discovery.

### Health Services Management & Policy Track

Health services management and policy research is broad in scope and touches on all of the standard functional business areas (e.g., management, strategy and marketing, finance/economics, management information systems, human resources management) in addition to government health policy/reimbursement/regulation, insurance and other payer mechanisms, dealing with health professionals, and illness/health in individuals and in populations. The track is designed to equip students to deal with both management information and with population health and illness information and research to understand the implications of such information and research, and to transform inferences from that information and research into practical recommendations on the national, state, and local level. By its nature, it is applied to health services settings including hospitals, skilled-nursing facilities, medical group practices, public health agencies, mental health services, managed care organizations, and integrated health networks.

### Health Information Systems Track

The track in Health Information Systems is designed to explore the role of administrative and clinical information systems in health care organizations. Attention will be directed at the design, implementation, and maintenance of the broad array of computer applications used in the health care industry. An interdisciplinary approach will be taken drawing on expertise from the health professions, management information systems, and library and information science. Curricular content will range from systems analysis and design, system efficacy and management, to e-commerce.

### Medical Imaging and Instrumentation Track

The track in Medical Imaging and Instrumentation is designed to train students in understanding and developing medical imaging systems and medical electronic instrumentation. The aspects emphasized in this track are medical imaging systems, image processing, computer vision, pattern recognition, medical instrumentation development and optimization, computer modeling, applications of electric and magnetic fields, and wireless communication.

### Public Health Informatics Track

The Public Health Informatics track is designed to train students in the development of techniques, methods and tools to conduct public health research and to provide public health programs and tools for practical use. Graduates of this track will also be able to provide customized instruction on public health and related biomedical topics for public health workers, the public and others such as those in public health policy who will benefit from public health informatics. Technical areas include databases, tools and techniques for acquiring, processing, warehousing, and analyzing public health data. Other areas of expertise include utility theory and cost-effectiveness analysis, computer-based decision support systems, user modeling and user interface design, intelligent tutoring systems, structured reporting, and data mining.

## Credits and Courses

Students enrolled in this program must follow all UWM Graduate School requirements and regulations. The minimum requirement for the Ph.D. in Biomedical and Health Informatics will be 58-63 credits beyond the bachelor's degree. Up to 24 credits from a related master's degree may be applied toward the Ph.D.

The curriculum will consist of a common set of core courses for all tracks, required and elective courses for each individual track, and the dissertation. The purpose of the core is to ensure that all graduates of the program share a basic common knowledge in biomedical and health informatics. The purpose of the tracks is to enable the students to develop significant strengths in specific sub-areas within biomedical and health informatics. The courses identified in the curriculum are offered by UWM or MCW and, in some case, by both institutions. Following are descriptions of these components and their corresponding credit requirements.

### Core Courses

The core courses provide a comprehensive structure for the foundations needed for all students in biomedical and health informatics irrespective of their special interests. This includes a series of seminars that deal with different aspects of biomedical and health informatics. All students must take the following core courses or must have taken equivalent courses in previous study.

Code	Title	Credits
<b>Core Courses</b>		
Select one of the following:		2-3
MCW 13200(A,B)	Medical Informatics, 6 quarter cr	
HI 700	Introduction to Health Care Informatics	
Select one of the following:		3
BMS 701	Human Pathophysiology I	
HCA XXX	Physiology and Disease Informatics	
Select the following for four 1-credit semesters		4
COMPSCI 870	Medical Informatics Seminar (or at MCW)	
COMPSCI 557	Introduction to Database Systems	3
or BUS ADM 749	Data and Information Management	
Select one of the following:		1-3
HI 722	Legal, Ethical and Social Issues in Health Care Informatics	
MCW 12202	Medical Ethics (1cr)	
MCW 10222	Ethics and Integrity in Science (1cr)	
<b>Total Credits</b>		<b>13-16</b>

**Knowledge Based Systems Track**

Code	Title	Credits
<b>Required</b>		
COMPSCI 535	Algorithm Design and Analysis	3
COMPSCI 710	Artificial Intelligence	3
or HI 742	Computational Intelligence in Health Informatics	
BUS ADM 741	Web Mining and Analytics	3
or COMPSCI 425	Introduction to Data Mining	
COMPSCI 743	Intelligent User Interfaces	3
or COMPSCI 747	Principles & Practices of User Interface Design	

**Required Mathematics & Quantitative Methods**

<i>Statistics</i>		
Select one of the following:		3
BUS ADM 795	Seminar-in-Management:	
BUS ADM 995	Doctoral Seminar in Decision Sciences:	
ED PSY 624	Educational Statistical Methods I	
MTHSTAT 871	Mathematical Statistics I	

*Probability*

ECON 413	Statistics for Economists	3
or MATH 883	Theory of Probability	

**Track Electives**

<i>Computing and Applications</i>		
Select 12-15 credits with approval of advisor and steering committee		12-15

*Quantitative Analysis*

Select up to 6 credits with approval of advisor and steering committee		6
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**Dissertation**

Select 12 credits from the following (use course from program of major advisor):		12
BUS ADM 997	Doctoral Dissertation	
COMPSCI 998	Doctoral Thesis	

ELECENG 998	Doctoral Thesis	
HI 890	Health Care Informatics Research and Thesis	
INFOST 998	Doctoral Dissertation	
NURS 997	Doctoral Dissertation	
PH 990	Research and Dissertation	

**Total Credits 48-51**

**Health Services Management & Policy Track**

Code	Title	Credits
<b>Required</b>		
BUS ADM 755	Health Care Administration and Delivery Systems	3
BUS ADM 757	Managed Care and Integrated Health Networks	3
BUS ADM 744	Information Technology Strategy and Management	3
BUSMGMT 720	Strategic Management in Health Care Organizations	3
BUSMGMT 727	Health Care Accounting, Law and Ethics	3
BUS ADM 990	Doctoral Seminar in Strategic Management:	3
BUS ADM 996	Doctoral Seminar in Organizations:	3

**Required Mathematics & Quantitative Methods**

BUS ADM 918	Doctoral Seminar in Behavioral Research Methods in Management	3
Select one of the following:		3
BUS ADM 714	Multivariate Techniques in Management Research	
ECON 513	Introduction to Econometrics	
ED PSY 624	Educational Statistical Methods I	
ECON 710	Applied Econometrics	

**Track Electives**

Select 9 credits with approval of advisor and steering committee		9
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**Dissertation**

Select 12 credits from the following (use course from program of major advisor):		12
BUS ADM 997	Doctoral Dissertation	
COMPSCI 998	Doctoral Thesis	
ELECENG 998	Doctoral Thesis	
HI 890	Health Care Informatics Research and Thesis	
INFOST 998	Doctoral Dissertation	
NURS 997	Doctoral Dissertation	
PH 990	Research and Dissertation	

**Total Credits 48**

**Health Information Systems Track**

Code	Title	Credits
<b>Required</b>		
BUS ADM 744	Information Technology Strategy and Management	3
BUS ADM 747	Service-Oriented Analysis and Design	3
BUS ADM 817	Connected Systems for Business	3
or COMPSCI 759	Data Security	

COMPSCI 720	Computational Models of Decision Making	3
HI 721	Health Information Technology Procurement	3
HI 723	Health Care Systems Applications - Administrative and Clinical	3
or HI 760	Biomedical and Healthcare Terminology and Ontology	

**Research Methods**

Select one of the following: 3

IND ENG 716	Engineering Statistical Analysis	
BUS ADM 714	Multivariate Techniques in Management Research	
BUS ADM 918	Doctoral Seminar in Behavioral Research Methods in Management	
BUS ADM 991	MIS Doctoral Seminar II: (Subtitled)	
NURS 882	Qualitative Methods in Health Research	
NURS 883	Quantitative Methods in Health Research	

**Track Electives**

Select 12 credits with approval of advisor and steering committee 12

**Dissertation**

Select 12 credits from the following (use course from program of major advisor): 12

BUS ADM 997	Doctoral Dissertation	
COMPSCI 998	Doctoral Thesis	
ELECENG 998	Doctoral Thesis	
HI 890	Health Care Informatics Research and Thesis	
INFOST 998	Doctoral Dissertation	
NURS 997	Doctoral Dissertation	
PH 990	Research and Dissertation	

**Total Credits** 45**Medical Imaging & Instrumentation Track**

Code	Title	Credits
<b>Required</b>		
ELECENG 436	Introduction to Medical Instrumentation	3
ELECENG 437	Introduction to Biomedical Imaging	3
ELECENG 439	Introduction to Biomedical Optics	3
ELECENG/COMPSCI 712	Image Processing	3
or ELECENG 716	Tomography: Imaging and Image Reconstruction	
ELECENG 737	Medical Imaging Signals and Systems	3
or ELECENG 765	Introduction to Fourier Optics and Optical Signal Processing	

**Track Electives**

Select 21 credits with approval of advisor and steering committee 21

**Dissertation**

Select 12 credits from the following (use course from program of major advisor): 12

BUS ADM 997	Doctoral Dissertation	
COMPSCI 998	Doctoral Thesis	
ELECENG 998	Doctoral Thesis	

HI 890	Health Care Informatics Research and Thesis	
INFOST 998	Doctoral Dissertation	
NURS 997	Doctoral Dissertation	
PH 990	Research and Dissertation	

**Total Credits** 48**Public Health Informatics Track**

Code	Title	Credits
<b>Required</b>		
PH 701	Public Health Principles and Practice	3
PH 704	Principles and Methods of Epidemiology	3
PH 709		3
COMPSCI 535	Algorithm Design and Analysis	3
<b>Required Statistics &amp; Quantitative Methods</b>		
PH 702	Introduction to Biostatistics	3
PH XXX	Seminar in Biostatistics and Bioinformatics	1
PH 713		3
PH XXX	Data Management, Visualization, and Advanced Statistical Computing	3

**Track Electives***Computing and Applications*

Select 6 credits with approval of advisor and steering committee 6

*Quantitative Analysis*

Select 6 credits with approval of advisor and steering committee 6

**Dissertation**

Select 12 credits from the following (use course from program of major advisor): 12

BUS ADM 997	Doctoral Dissertation	
COMPSCI 998	Doctoral Thesis	
ELECENG 998	Doctoral Thesis	
HI 890	Health Care Informatics Research and Thesis	
INFOST 998	Doctoral Dissertation	
NURS 997	Doctoral Dissertation	
PH 990	Research and Dissertation	

**Total Credits** 46**Translational Bioinformatics Track**

Code	Title	Credits
<b>Required</b>		
Select one of the following: 2-3		
BIO SCI 490	Molecular Genetics	
MCW 20240	Translational Genetics, 2 cr	
Select one of the following: 3		
PH XXX	Introduction to Bioinformatics, 3 cr	
MCW 17201	Bioinformatics I: Introduction to Bioinformatics, 3 cr	
MARQ BIIN 6000	Introduction to Bioinformatics, 3 cr	
MARQ BIOL 5201	Genomics and Bioinformatics, 3 cr	
Select one of the following: 2-3		
PH XXX	Translational Bioinformatics, 3 cr	

Or both of the following:		
MCW 20100	Introduction to Clinical and Translational Research, 1 cr	
and MCW 20261	Clinical Trial Design, 1 cr	
Select one of the following:		3
COMPSCI 425	Introduction to Data Mining	
ELECENG/COMPSCI 711	Introduction to Machine Learning	
BUS ADM 741	Web Mining and Analytics	
MARQ ENMA 6060	Innovation and Technology, 3cr	
Select one of the following:		3
HI 760	Biomedical and Healthcare Terminology and Ontology	
BUS ADM 814	Enterprise Knowledge & Semantic Management	
COMPSCI 810	Knowledge Representation	
InfoSt 714	Metadata, 3cr	
Select one of the following:		2-3
HI 723	Health Care Systems Applications - Administrative and Clinical	
MCW 14230	Product Development of Medical Devices, 2 cr	

**Quantitative Methods**

Select 9 credits from the following:		9
NURS 883	Quantitative Methods in Health Research	
MATH 883	Theory of Probability	
PH 702	Introduction to Biostatistics	
PH XXX	Statistical Genetics and Genetic Epidemiology, 3cr	
PH XXX	Applied Quantitative Methods for Studying Population Health and Health Disparities, 3 cr	

Select a maximum of one of the following:

MCW 11200	Introduction to Epidemiology, 3 cr
PH 704	Principles and Methods of Epidemiology

Select a maximum of one of the following:

PH 711	Intermediate Biostatistics
MCW 04201	Biostatistics II, 3cr

**Track Electives**

Select 9 credits with approval of advisor and steering committee	9
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**Dissertation**

Select 12 credits from the following (use course from program of major advisor):	12
BUS ADM 997	Doctoral Dissertation
COMPSCI 998	Doctoral Thesis
ELECENG 998	Doctoral Thesis
HI 890	Health Care Informatics Research and Thesis
INFOST 998	Doctoral Dissertation
NURS 997	Doctoral Dissertation

PH 990	Research and Dissertation	
<b>Total Credits</b>		<b>45-48</b>

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise and approve the program of study before registering for courses. The Biomedical and Health Informatics Steering Committee will assign the incoming student to a temporary Program Advisor at the time of admission. Prior to the completion of 12 credit (9 credits for a part-time student), the student must select a major professor who will be the student's dissertation advisor. The student, in consultation with the major professor, develops a program of study which is submitted to the Biomedical and Health Informatics Steering Committee for approval. For subsequent changes, the student must file a revised program of study for approval.

### Doctoral Program Committee

The Doctoral Program Committee is proposed by the Major Professor in consultation with the student by the end of the student's first year of enrollment. The Program Committee, subject to the approval of the Biomedical and Health Informatics Steering Committee, shall consist of the Major Professor and at least four graduate faculty members, including at least one with health care and/or medical background, and one with informatics background.

### Residence

The student must meet Graduate School residence requirements.

### Qualifying Examination

A qualifying examination must be taken to determine whether the student is qualified to perform advanced doctoral level work in biomedical and health informatics. This examination is administered by the steering committee and must be taken prior to the completion of 21 credits of coursework in the program.

### Doctoral Preliminary Examination

The student is also required to take a preliminary examination after all the coursework is completed and prior to the advancement of candidacy to determine the student's preparation for independent research. Prior to the examination, the student must present a proposal for a doctoral dissertation. The preliminary examination may cover both graduate course material and the dissertation proposal. The preliminary examination must be successfully completed within five years of initial enrollment.

### Dissertation

The candidate must complete a dissertation presenting independent original research that adds to the existing body of knowledge in biomedical and health informatics. It should be of such caliber that warrants publication in respected journals.

### Dissertation Defense

The final oral examination will be an oral defense of the dissertation but may also cover the general field of the primary area of study. The examination may not be taken until all other degree requirements are satisfied. A majority of the examination committee members must approve the dissertation in order for the student to pass. The final oral examination must be taken within five years after passing the preliminary examination. Candidates who exceed this time limit may be required

to retake the preliminary examination and be admitted to candidacy a second time.

### Time Limit

All components of the PhD program must be completed within 10 years of matriculation.

## Biomedical Engineering

Biomedical engineers apply mathematics, science, and engineering knowledge to solve healthcare-related problems that improve quality of life and reduce the cost of healthcare to society. They design assistive,

diagnostic, and therapeutic tools, in collaboration with healthcare professionals. They work in research institutions, clinics, and industry.

According to the United States Bureau of Labor Statistics, employment of biomedical engineers is projected to grow 23 percent from 2014 to 2024, much faster than the average for all occupations. Growing technology and its application to medical equipment and devices, along with an aging population, will increase demand for the work of biomedical engineers.

### Programs

- Biomedical Engineering, BSE (p. 568)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Mahsa Dabagh	Assistant Professor	PhD	Lappeenranta University of Technology	✓	
Ranjan Dash	Adjunct Associate Professor (Medical College of Wisconsin faculty)	PhD	Indian Institute of Technology		
Guilherme Garcia	Adjunct Associate Professor (Medical College of Wisconsin faculty)	PhD	Universidade Federal de Minas Gerais, Brazil		
Veysi Malkoc	Visiting Assistant Professor	PhD	The Ohio State University		
Devendra Misra	Professor, Chair	PhD	Michigan State University	✓	
Priyatha Premnath	Assistant Professor	PhD	Ryerson University	✓	
Jacob Rammer	Assistant Professor	PhD	Marquette University	✓	
Pradeep Rohatgi	UWM Distinguished Professor	ScD	Massachusetts Institute of Technology		
Brooke Slavens	Associate Professor	PhD	Marquette University	✓	

## Biomedical Engineering, BSE

Biomedical engineering (BME) students at UWM will learn to translate engineering principles into clinical methods. Students will also engage in collaborative and interdisciplinary research projects with labs in the College of Engineering & Applied Science, College of Letters & Science, College of Health Sciences, School of Nursing, School of Public Health, and with local industry.

The BME undergraduate program emphasizes engineering design in preparation for employment in biomedical industries or launching startups in this fast-growing field. Freshmen and sophomores take a core curriculum that provides a foundation of engineering principles and tools, software application, anatomy and physiology, and communication skills. Juniors take courses on sensors and actuators, biomedical signal processing and medical devices. Seniors also work on capstone design projects and the Product Realization course in multidisciplinary teams. A wide variety of elective courses allow juniors and seniors to specialize in the area of their choice.

#### Current focus areas include:

- Assistive Technology
- Biomechanics
- Medical Imaging
- Medical Instrumentation
- Rehabilitation Engineering

#### Key aspects of the undergraduate program include:

- **Design projects**, throughout the curriculum
- **Hands-on laboratories**
- **Flexibility in biomedical engineering** with depth through specialization areas
- **Industry cooperatives/internship opportunities**
- **Research opportunities in world-class labs** that make UWM one of the nation's top research universities (rated R1 by the Carnegie Classification of Institutions of Higher Education); the only one in southeastern Wisconsin

#### Career Paths

Biomedical engineers work with medical scientists, other medical researchers, and manufacturers to address a wide range of injuries and physical disabilities. Their ability to work on different activities with other professionals is enlarging the range of applications for biomedical products and services, particularly in healthcare.

- Clinical or Field Engineer
- Staff Engineer
- Manufacturing Engineer
- Researcher
- Quality Engineer
- Sales Engineer



## New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

## Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies.

The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

## Biomedical Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Biomedical Engineering is 120.

Code	Title	Credits
<b>Major Requirement - 51 credits</b>		
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
BME 101	Fundamentals of Biomedical Engineering	3
BME 296	Fundamentals of Biomaterials	4
BME 302	Analysis and Modeling of Dynamic Systems	4
BME 306	Introduction to Engineering Biomechanics	4
BME 310	Biomedical Signals and Systems	3
BME 320	Engineering of Biomedical Devices I	4
BME 325	Engineering of Biomedical Devices II	3
BME 495	Biomedical Instrumentation Laboratory	3
BME 595	Capstone Design Project	4
EAS 110	Fundamentals of Smart Systems Engineering I	2
EAS 200	Professional Seminar	1

EAS 210	Fundamentals of Smart Systems Engineering II	2
COMPSCI 202	Introductory Programming Using Python	3
or COMPSCI 250	Introductory Computer Programming	
KIN 270	Statistics in the Health Professions: Theory and Practice	3

<b>Engineering Requirement- 15 credits</b>		
Select any 15 credits from 200 or higher-level courses from BME, CIV ENG, ELECENG, IND ENG, MATLENG, MECHENG; at least 9 of these credits must be from 300 or higher-level courses. Courses cannot be double counted as part of other requirements of the program.		15

<b>Mathematics Requirement - 16 credits <sup>1</sup></b>		
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
ELECENG 234	Analytical Methods in Engineering	4

<b>Physics Requirement - 8 credits</b>		
PHYSICS 209	Physics I (Calculus Treatment)	4
PHYSICS 210	Physics II (Calculus Treatment)	4

<b>Technical Electives - 9 credits</b>		
Select 9 credits from the approved technical electives list below: <sup>2</sup>		9

BIO SCI 150	Foundations of Biological Sciences I	
BIO SCI 152	Foundations of Biological Sciences II	
BME 585	Advanced Biomaterials	
BME 599	Senior Thesis	
BME 690	Topics in Biomedical Engineering:	
BME 699	Independent Study	
BUS ADM 447	Entrepreneurship	
CHEM 102	General Chemistry	
CHEM 104	General Chemistry and Qualitative Analysis	
CHEM 343	Organic Chemistry	
CHEM 344	Organic Chemistry Laboratory	
CHEM 345	Organic Chemistry	
CIV ENG 311	Introduction to Energy, Environment and Sustainability	
COMPSCI 411	Machine Learning and Applications	
EAS 1	Engineering Co-op Work Period	
EAS 497	Study Abroad:	
ELECENG 361	Electromagnetic Fields	
ELECENG 410	Digital Signal Processing	
ELECENG 436	Introduction to Medical Instrumentation	
ELECENG 437	Introduction to Biomedical Imaging	
IND ENG 360	Engineering Economic Analysis	
MECHENG 320	Introduction to Fluid Mechanics	
MECHENG 474	Introduction to Control Systems	

<b>GER Distribution Requirement - 15 credits</b>		
Arts		3
Humanities		3
Social Science		6
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3

Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement

<b>Free Electives</b>	<b>6</b>
<b>Students must also satisfy Oral and Written Communication (OWA) Part A<sup>3</sup></b>	<b>0-6</b>
<b>Students must also Satisfy the UWM Foreign Language requirements (0-8)<sup>3</sup></b>	<b>0-8</b>
<b>Total Credits</b>	<b>120</b>

<sup>1</sup> MATH 221 and MATH 222 may substitute for MATH 231, MATH 232, and MATH 233.

<sup>2</sup> The following courses are approved technical electives, but are currently inactive: ELECENG 437, ELECENG 438, ELECENG 539.

<sup>3</sup> See General Education Requirements (p. 30).

## Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

## Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

## Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

## Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

## Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as

they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

## Honors in the Major

Students in Biomedical Engineering who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all CEAS courses counting toward the Biomedical Engineering major;
3. A 3.500 GPA over all upper-division (300 level and higher) BME courses; and
4. At least one of the following:
  - a. Successful completion of 3 credits of research experience via senior thesis (BME 599) and/or an approved independent study (BME 699).
  - b. Participation in the Accelerated MS program with successful completion of 6 credits in approved courses for the Biomedical Engineering concentration in the MS in Engineering Program.

Students who believe they may qualify for honors in Biomedical Engineering should apply to the College of Engineering & Applied Science during their last semester of study.

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Joint Programs with Other Campuses

### Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

### Dual Degree Programs

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

## Joint Programs with Wisconsin Technical Colleges

### Gateway Technical College

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

### Milwaukee Area Technical College

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

### Waukesha County Technical College

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

## Civil and Environmental Engineering

Civil engineering is a profession that deals with the infrastructure of society. Civil engineers design bridges, buildings, and other structures;

develop and design water resources, waste treatment, and environmental management facilities; plan and design highway and transportation systems; and design foundations, earth and rock structures, and tunnels. Students completing a civil engineering program have an opportunity for professional employment with industry; utilities; consulting firms; contractors; local, state, and federal government agencies; research laboratories; and academia.

## Mission Statement

The mission of the UWM undergraduate Civil Engineering Program is to educate students to become civil engineering professionals who plan,

design, build, and manage the infrastructure needed for a modern urban society and the environment.

## Programs

- Civil Engineering, BSE (p. 572)
- Environmental Engineering, BSE (p. 576)
- Professional Practice in Civil Engineering Infrastructure, Graduate Certificate (p. 580)
- Structural Engineering, Minor (p. 581)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Edward A. Beimborn	Professor	PhD, PE			✓
Hector R. Bravo	Professor, Chair	PhD	University of Iowa		✓
Erik R. Christensen	Professor	PhD, PE			✓
Rani El-Hajjar	Associate Professor	PhD	University of Nebraska	✓	
Al Ghorbanpoor	Professor	PhD, PE	University of Maryland		✓
Andrew Graettinger	Professor, Associate Dean for Research	PhD	Northwestern University	✓	
Sam Helwany	Professor	PhD, PE	University of Boulder, Colorado	✓	
Alan J. Horowitz	Professor	PhD, PE			✓
Kwang K. Lee	Professor	PhD, PE			✓
Jin Li	Professor	PhD	University of Cincinnati	✓	
Qian Liao	Associate Professor	PhD	Cornell University	✓	
Tarun R. Naik	Professor	PhD, PE			✓
Xiao Qin	Professor	PhD	University of Connecticut	✓	
Adeeb Rahman	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Konstantin Sobolev	Professor	PhD	Research Institute of Concrete and Reinforced Concrete, Russia	✓	
Habibollah Tabatabai	Associate Professor	PhD, PE	University of Florida, Gainesville	✓	
Hani H. Titi	Professor	PhD, PE	Louisiana State University	✓	
Yin Wang	Assistant Professor	PhD	Washington University in St. Louis	✓	
Jian Zhao	Associate Professor	PhD	University of Minnesota, Minneapolis	✓	

## Civil Engineering, BSE

Civil Engineering is a profession that deals with the infrastructure of society and impacts your everyday life. From the roads and bridges you use every day to the drinking water that comes out of your tap at home, civil engineers work to develop safe, efficient and sustainable ways to continually improve our infrastructure.

### Concentrations

- Geotechnical engineering
- Structural engineering
- Transportation and municipal engineering
- Water resources and environmental engineering

### Research

Work with faculty engaged in leading-edge research in areas such as:

- Social and environmental impacts of transportation development
- Flexible pavement design
- Fatigue and fracture mechanics
- Hydrodynamic modeling
- Environmental fluid mechanics
- Application of nanomaterials in construction

### Career Paths

Civil engineers work in all levels of government and throughout the private sector.

- Structural Designer
- Construction Manager
- City Engineer
- Stormwater Manager
- Foundation Engineer
- Resident Engineer

## Accreditation

The Civil Engineering program is accredited by the Engineering Accreditation Commission of ABET: <https://www.abet.org> (<https://tinyurl.com/u7fsfevw/>).

## New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

## Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies.

The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

## Civil Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in civil engineering is 120.

Code	Title	Credits
<b>Engineering Core (23 Credits)</b>		
CIV ENG 203	Introduction to Solid Mechanics	4
CIV ENG 202	Dynamics	3
EAS 200	Professional Seminar	1
IND ENG 111	Introduction to Engineering <sup>1</sup>	3
IND ENG 112	Engineering Drawing & Computer Aided Design/Drafting <sup>1</sup>	3
IND ENG 360	Engineering Economic Analysis	3
IND ENG 367	Introductory Statistics for Physical Sciences and Engineering Students	3
MECHENG 320	Introduction to Fluid Mechanics	3
<b>Major Requirements (26 Credits)</b>		
CIV ENG 250	Engineering Surveying	3

CIV ENG 335	Soil Mechanics	3
CIV ENG 372	Introduction to Structural Design	4
CIV ENG 411	Engineering Principles of Water Resources Design	3
CIV ENG 413	Environmental Engineering	3
CIV ENG 431	Materials of Construction <sup>2</sup>	3
CIV ENG 490	Transportation Engineering	3
CIV ENG 494	Principles of Civil Engineering Design	1
CIV ENG 495	Senior Design	3
<b>Mathematics Requirement (16 Credits) <sup>3</sup></b>		
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
ELECENG 234	Analytical Methods in Engineering	4
<b>Chemistry Requirement (5 Credits)</b>		
CHEM 105 or CHEM 102	General Chemistry for Engineering General Chemistry	5
<b>Physics Requirement (8 Credits)</b>		
PHYSICS 209 & PHYSICS 210	Physics I (Calculus Treatment) and Physics II (Calculus Treatment)	8
<b>Technical Electives - Select 21 credits from approved lists</b>		<b>21</b>
<b>GER Distribution Requirement (15 Credits)</b>		
Select 3 credits in Art		3
Select 3 credits in Humanities		3
Select 6 credits of Social Science		6
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3
Cultural Diversity - One of the arts, humanities, or social science courses selected must also meet the UWM cultural diversity requirement.		
<b>Free Electives - Select 6 credits of free electives</b>		<b>6</b>
<b>Students must also satisfy Oral and Written Communication (OWA) Part A <sup>4</sup></b>		<b>0-6</b>
<b>Students must also Satisfy the UWM Foreign Language requirements <sup>4</sup></b>		<b>0-8</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> MECHENG 110 and MECHENG 111 may substitute for IND ENG 111 and IND ENG 112 for students transferring from another engineering major.

<sup>2</sup> Civil engineering majors may take MATLENG 201 in place of CIV ENG 431.

<sup>3</sup> MATH 221, MATH 222 and two free elective credits may substitute for MATH 231, MATH 232 and MATH 233.

<sup>4</sup> See General Education Requirements (p. 30).

## Technical Electives

A minimum of 21 technical elective credits are required. At least 15-21 credits are required from Group A Technical Electives and 0-6 credits from Group B Technical Electives. Normally a minimum of 12 credits will be taken in an area of concentration.

**Code Title Credits**

**Group A Technical Electives - Take 15 to 21 credits of Group A electives. All non-required Civ Eng courses 400-699 are Group A Technical Electives.**

CIV ENG 311	Introduction to Energy, Environment and Sustainability	
CIV ENG 360	Introduction to Structural Analysis	
CIV ENG 401	Intermediate Strength of Materials	
CIV ENG 412	Applied Hydrology	
CIV ENG 431	Materials of Construction	
CIV ENG 455	Construction Planning, Equipment, and Methods	
CIV ENG 456	Foundation Engineering	
CIV ENG 463	Introduction to Finite Elements	
CIV ENG 466	Design of Composite Structures	
CIV ENG 480	Software Applications for Civil Engineering	
CIV ENG 492	Environmental Impact Assessment	
CIV ENG 502	Experimental Stress Analysis	
CIV ENG 511	Water Supply and Sewerage	
CIV ENG 521	Water Quality Assessment	
CIV ENG 555	Sustainable Construction Materials and Technologies	
CIV ENG 560	Intermediate Structural Analysis	
CIV ENG 571	Design of Concrete Structures	
CIV ENG 572	Design of Steel Structures	
CIV ENG 573	Design of Masonry and Wood Structures	
CIV ENG 574	Design of Prestressed Concrete Structures	
CIV ENG 579	Earthquake Engineering	
CIV ENG 590	Urban Transportation Planning	
CIV ENG 592	Traffic Control	
CIV ENG 594	Physical Planning and Municipal Engineering	
CIV ENG 596	Transportation Facilities Design	
CIV ENG 598	Pavement Analysis and Design	
CIV ENG 610	Introduction to Water and Sewage Treatment	
CIV ENG 614	Hazardous Waste Management	
CIV ENG 616	Computational Hydraulics and Environmental Flows	
CIV ENG 691	Topics in Civil Engineering:	

**Group B Technical Electives**

Select no more than 6 credits from the following list:

Any Chemistry course 200-level or above	
Any Engineering or Mathematics course at the 400-level or above	
Any Physics course 300-level or above	
CHEM 104	General Chemistry and Qualitative Analysis <sup>1</sup>
COMPSCI 250	Introductory Computer Programming <sup>2</sup>
EAS 1	Engineering Co-op Work Period <sup>3</sup>
ENGLISH 206	Technical Writing

ELECENG 301	Electrical Circuits I
GEOG 215	Introduction to Geographic Information Science
GEOG 403	Remote Sensing: Environmental and Land Use Analysis
MATH 313	Linear Programming and Optimization
MATH 322	Introduction to Partial Differential Equations
PHYSICS 214	Lab Physics I (Calculus Treatment)
PHYSICS 215	Lab Physics II (Calculus Treatment)
URBPLAN 591	Introduction to Urban Geographic Information Systems (GIS) in Planning

<sup>1</sup> Students who take CHEM 104 satisfy 3 credits of Group B Electives.

<sup>2</sup> COMPSCI 202 Introductory Programming Using Python is an acceptable alternative.

<sup>3</sup> Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.

## Areas of Concentration

The Civil & Environmental Engineering Department offers numerous elective courses that allow students to work in one of four areas of concentration.

Code	Title	Credits
<b>Geotechnical Engineering</b>		
Students in this concentration should complete:		
CIV ENG 456	Foundation Engineering	
And at least three of the following courses:		
CIV ENG 360	Introduction to Structural Analysis	
CIV ENG 401	Intermediate Strength of Materials	
CIV ENG 412	Applied Hydrology	
CIV ENG 463	Introduction to Finite Elements	
CIV ENG 492	Environmental Impact Assessment	
CIV ENG 598	Pavement Analysis and Design	
<b>Municipal and Transportation Engineering</b>		
Students in this concentration should complete at least three of the following:		
CIV ENG 492	Environmental Impact Assessment	
CIV ENG 590	Urban Transportation Planning	
CIV ENG 592	Traffic Control	
CIV ENG 594	Physical Planning and Municipal Engineering	
CIV ENG 596	Transportation Facilities Design	
CIV ENG 598	Pavement Analysis and Design	
CIV ENG 610	Introduction to Water and Sewage Treatment	

## Structural Engineering

Students in this concentration should complete:

CIV ENG 360	Introduction to Structural Analysis
CIV ENG 401	Intermediate Strength of Materials
And at least two of the following courses:	
CIV ENG 431	Materials of Construction
CIV ENG 456	Foundation Engineering
CIV ENG 463	Introduction to Finite Elements

CIV ENG 466	Design of Composite Structures
CIV ENG 560	Intermediate Structural Analysis
CIV ENG 571	Design of Concrete Structures
CIV ENG 572	Design of Steel Structures
CIV ENG 573	Design of Masonry and Wood Structures
CIV ENG 574	Design of Prestressed Concrete Structures
CIV ENG 579	Earthquake Engineering

### Water Resources and Environmental Engineering

Students in this concentration should complete at least three of the following:

CIV ENG 311	Introduction to Energy, Environment and Sustainability
CIV ENG 412	Applied Hydrology
CIV ENG 511	Water Supply and Sewerage
CIV ENG 521	Water Quality Assessment
CIV ENG 610	Introduction to Water and Sewage Treatment
CIV ENG 614	Hazardous Waste Management

## Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.

2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

## Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

## Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

## Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

## Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising

from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

## Honors in the Major

Students in Civil Engineering who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all upper-division (300-level and higher) Civ Eng courses;
3. Participation in the Accelerated MS Degree program with successful completion of 6 credits at the undergraduate level that can apply towards the MS degree program.

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold

cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Joint Programs with Other Campuses

### Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

### Dual Degree Programs

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

## Joint Programs with Wisconsin Technical Colleges

### Gateway Technical College

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

### Milwaukee Area Technical College

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

### Waukesha County Technical College

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

## Environmental Engineering, BSE

### Environmental Engineering at UWM

Environmental engineers use the principles of engineering, soil science, biology and chemistry to develop solutions to environmental problems. Environmental engineers work to improve drinking water supply, public



health, recycling, sustainability, to control water and air pollution, and manage waste.

**Areas of Specialization**

- Water and wastewater treatment
- Air quality
- Environmental remediation
- Environmental technology
- Energy and sustainability
- Water resources management
- Environmental health

**Career Paths**

- Engineering services
- Consulting, scientific and management services
- Environmental engineering in all levels of government and throughout the private sector
- Water project manager
- Environmental health and safety engineer

**New Freshmen**

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

**Transfer Students**

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies.

The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

**Environmental Engineering Curriculum**

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in environmental engineering is 120.

Code	Title	Credits
<b>Engineering Core (27 credits)</b>		
CIV ENG 203	Introduction to Solid Mechanics	4
EAS 200	Professional Seminar	1
IND ENG 111	Introduction to Engineering <sup>1</sup>	3
IND ENG 112	Engineering Drawing & Computer Aided Design/Drafting <sup>1</sup>	3
IND ENG 360	Engineering Economic Analysis	3
IND ENG 367	Introductory Statistics for Physical Sciences and Engineering Students	3
MATLENG 201	Engineering Materials <sup>2</sup>	4
CIV ENG 202	Dynamics	3
MECHENG 320	Introduction to Fluid Mechanics	3
<b>Environmental Engineering Major (22 credits)</b>		
CIV ENG 311	Introduction to Energy, Environment and Sustainability	3
CIV ENG 411	Engineering Principles of Water Resources Design	3
CIV ENG 412	Applied Hydrology	3
CIV ENG 413	Environmental Engineering	3
CIV ENG 521	Water Quality Assessment	3
CIV ENG 610	Introduction to Water and Sewage Treatment	3
CIV ENG 494	Principles of Civil Engineering Design	1
CIV ENG 495	Senior Design	3
<b>Mathematics Requirement (16 credits) <sup>3</sup></b>		
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
ELECENG 234	Analytical Methods in Engineering	4
<b>Chemistry Requirement (5 credits) <sup>4</sup></b>		
CHEM 105	General Chemistry for Engineering	5
<b>Physics Requirement (8 credits)</b>		
PHYSICS 209	Physics I (Calculus Treatment)	4
PHYSICS 210	Physics II (Calculus Treatment)	4
<b>Other Natural Sciences (7 credits)</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
Select one of the following:		3
Any ATM SCI course 150 level or above		
Any GEO SCI course 150 level or above		
<b>GER Distribution Requirement (15 credits)</b>		
Select 3 credits in Art		3
Select 3 credits in Humanities		3
Select 6 credits of Social Science		6
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3
Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement		
Students must also satisfy Oral and Written Communication (OWC) Part A <sup>5</sup>		0-6
Students must also Satisfy the UWM Foreign Language requirements <sup>5</sup>		0-8
<b>Free Electives (2 credits)</b>		<b>2</b>
<b>Technical Electives (18 credits)</b>		<b>18</b>

CIV ENG 335	Soil Mechanics
CIV ENG 455	Construction Planning, Equipment, and Methods
CIV ENG 480	Software Applications for Civil Engineering
CIV ENG 490	Transportation Engineering
CIV ENG 492	Environmental Impact Assessment
CIV ENG 511	Water Supply and Sewerage
CIV ENG 555	Sustainable Construction Materials and Technologies
CIV ENG 614	Hazardous Waste Management
CIV ENG 616	Computational Hydraulics and Environmental Flows
COMPSCI 250	Introductory Computer Programming <sup>6</sup>
EAS 497	Study Abroad:
ELECENG/MECHENG 430	Energy Modeling
FRSHWTR 502	Aquatic Ecosystem Dynamics
FRSHWTR 504	Quantitative Freshwater Analysis
FRSHWTR 506	Environmental Health of Freshwater Ecosystems
FRSHWTR 510	Economics, Policy and Management of Water
GEOG 403	Remote Sensing: Environmental and Land Use Analysis
GEO SCI/FRSHWTR 464	Chemical Hydrogeology
GEO SCI 562	Environmental Surface Hydrology
IND ENG 455	Operations Research I
MATLENG 460	Nanomaterials and Nanomanufacturing
MATLENG 483	Materials for Energy Systems
MECHENG 301	Basic Engineering Thermodynamics
MECHENG 321	Basic Heat Transfer
MECHENG 436	Solar Engineering
PH 303	Climate Change, the Environment and Human Health
URBPLAN 591	Introduction to Urban Geographic Information Systems (GIS) in Planning

**Total Credits****120**

<sup>1</sup> MECHENG 110 and MECHENG 111 may substitute for IND ENG 111 and IND ENG 112 for students transferring from another engineering major.

<sup>2</sup> Environmental engineering majors may take CIV ENG 431 (<https://catalog.uwm.edu/search/?P=CIV%20ENG%20431>) (with proper prerequisites) in place of MATLENG 201 (<https://catalog.uwm.edu/search/?P=MATLENG%20201>).

<sup>3</sup> MATH 221, MATH 222 and two free electives may substitute for MATH 231, MATH 232 and MATH 233.

<sup>4</sup> CHEM 102 and CHEM 104 may substitute for CHEM 105.

<sup>5</sup> See General Education Requirements (p. 30) for details.

<sup>6</sup> COMPSCI 202 Introductory Programming Using Python is an acceptable alternative.

## Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

## Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

## Student Academic Appeals

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- course registration,
- graduation planning,
- career preparation,

- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

## Honors in the Major

Students in Environmental Engineering who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all upper-division (300-level and higher) Civ Eng courses;
3. Participation in the Accelerated MS program with successful completion of 6 credits that can apply towards the MS degree program.

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Joint Programs with Other Campuses Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

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## Professional Practice in Civil Engineering Infrastructure, Graduate Certificate

The certificate in **Professional Practice in Civil Engineering Infrastructure** offers an opportunity for practicing engineers seeking professional growth to pursue graduate education on a flexible part-time or full-time basis. The program of study is individualized to accommodate the many different focus areas in Civil and Environmental Engineering. This five-course graduate-level program will allow a student to broaden and strengthen knowledge in the areas of engineering mechanics, or environmental, geotechnical, structures, transportation, or water resource engineering by learning the most up-to-date engineering theory and techniques taught by UWM's renowned faculty.

### Certificate Features

- Student will work with the department chair and program coordinator to design a program tailored to meet the student's individual goals.
- No GRE is required for admission into the certificate program. Credits and courses required for the certificate can count towards meeting the MS degree requirements (*See Requirements tab*).
- Addresses the gap between the curriculum completed at the undergraduate level and the required knowledge required in licensure in civil engineering.
- Learn the latest theory and practice methods using the most up-to-date design codes and practices.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The minimum GPA for admission is 2.75 in the prior bachelor's or post-baccalaureate degree. Applicants should generally have a prior degree in civil engineering or related fields. Applicants with other prior degrees will be considered via holistic assessment of the academic record and professional experience, with a focus on substantial work experience in the areas related to the certificate focus areas in engineering.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
Select 15 credits of electives from any graduate level (G or U/G) courses offered by the Department of Civil and Environmental Engineering. A minimum of 6 credits are required at the 700-level or above.		15
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the

degree. (Note: Students in PhD programs must still complete the minimum residency requirements)

- Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
  3. A course may count toward no more than one certificate and one degree.
  4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Structural Engineering, Minor

Structural engineers focus on the design and physical integrity of buildings and other large structures, assuring they are safe and stable. They frequently work with architects and contractors. In addition to new construction, they often inspect and design plans for maintenance or renovation of existing structures.

The minor in structural engineering is designed especially for students in the following majors:

- Architecture
- Mechanical Engineering
- Industrial and Manufacturing Engineering
- Materials
- Geology
- Physics

This minor is not available to civil engineering majors.

## Requirements

The 19-credit minor requires the following:

Code	Title	Credits
<b>Required</b>		
CIV ENG 335	Soil Mechanics	3
CIV ENG 360	Introduction to Structural Analysis	3
CIV ENG 372	Introduction to Structural Design	4
CIV ENG 571	Design of Concrete Structures	3
or CIV ENG 572	Design of Steel Structures	
<b>Electives</b>		
Select two electives (see below)		6
<b>Total Credits</b>		<b>19</b>

## Electives

Code	Title	Credits
CIV ENG 401	Intermediate Strength of Materials	3
CIV ENG 431	Materials of Construction	3
CIV ENG 456	Foundation Engineering	3
CIV ENG 463	Introduction to Finite Elements	3
CIV ENG 502	Experimental Stress Analysis	3
CIV ENG 560	Intermediate Structural Analysis	3
CIV ENG 571	Design of Concrete Structures	3
CIV ENG 572	Design of Steel Structures	3
CIV ENG 573	Design of Masonry and Wood Structures	3
CIV ENG 574	Design of Prestressed Concrete Structures	3
CIV ENG 579	Earthquake Engineering	3
ARCH 321	Building Technology I	3
ARCH 421	Building Technology III	3
ARCH 422	Building Technology IV	3

More information on the minor may be obtained from the CEAS Office of Student Services: (414) 229-4667, EMS Room E386.

## Computer Engineering, BS

The Computer Engineering major is offered through the Electrical Engineering and Computer Science departments at UWM. Computer engineering pertains to the design, implementation and maintenance of hardware and software components of computers and computer-controlled equipment.

Our program provides students with a broad and strong technical background in the field. It also helps students develop a solid grounding in computing, mathematics and engineering. Students will learn to apply these theoretical principles to design hardware, software, networks, and computerized equipment for diverse application domains.

## Accreditation

The Computer Engineering program is accredited by the Engineering Accreditation Commission of ABET: <https://www.abet.org> (<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abet.org%2F&data=02%7C01%7Cebilicki%40uwm.edu%7Cbcb1f9a3ce174b5fcecc08d863abd8be%7C0bca7ac3fcb64efd89eb6de97603cf21%7C0%7C637368937031393544&sc=2Fz8V8KR7ONCyAdv22g40jpM9w%3D&reserved=0>).

## New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

## Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies.

The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

## Laptop Requirement

A laptop is required hardware for Computer Science and Computer Engineering students beginning in the sophomore year, and for all graduate students. The specific requirements can be found here (<https://uwm.edu/engineering/laptop-requirement-cs-and-ce/>).

## Computer Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Computer Engineering is 120.

Code	Title	Credits
<b>Engineering Core - 17 Credits</b>		
ELECENG 140	Intro to Embedded Computing I: Digital Logic and Microprocessors	3
ELECENG 240	Intro to Embedded Computing II: C Programming for Embedded Applications	4
COMPSCI 250	Introductory Computer Programming	3
EAS 200	Professional Seminar	1
ELECENG 301	Electrical Circuits I	3
IND ENG 367	Introductory Statistics for Physical Sciences and Engineering Students	3
<b>Major Requirements - 44 Credits</b>		
COMPSCI 251	Intermediate Computer Programming	3
COMPSCI 317	Discrete Information Structures	3
COMPSCI 351	Data Structures and Algorithms	3
COMPSCI 361	Introduction to Software Engineering	3
COMPSCI 395	Social, Professional, and Ethical Issues	3
COMPSCI 458	Computer Architecture	3
COMPSCI 520	Computer Networks	3
COMPSCI 535	Algorithm Design and Analysis	3
ELECENG 305	Electrical Circuits II	4
ELECENG 310	Signals and Systems	3
ELECENG 330	Electronics I	4

ELECENG 340	Embedded Systems I: C and C++ Programming for Embedded Applications	3
ELECENG 440	Embedded Systems II: Advanced Embedded Systems	3
ELECENG 457	Digital Logic Laboratory	3
<b>Mathematics Requirement - 16 Credits <sup>1</sup></b>		
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
ELECENG 234	Analytical Methods in Engineering	4
<b>Chemistry or Biology Requirement - 4-5 Credits</b>		
Select one of the following:		4-5
CHEM 105	General Chemistry for Engineering	
CHEM 102	General Chemistry	
BIO SCI 150	Foundations of Biological Sciences I	
BIO SCI 202	Anatomy and Physiology I	
<b>Physics Requirement - 8 Credits</b>		
PHYSICS 209 & PHYSICS 210	Physics I (Calculus Treatment) and Physics II (Calculus Treatment)	8
<b>Technical Electives - 13 Credits</b>		
<i>Group A Technical Electives - Select 6 to 9 credits from the following list. All COMPSCI and ELECENG courses numbered 300-699 that are not explicitly listed as Engineering Core, Major, Group B or Group C</i>		
COMPSCI 315	Introduction to Computer Organization and Assembly Language Programming	
COMPSCI 318	Topics in Discrete Mathematics	
COMPSCI 337	System Programming	
COMPSCI 411	Machine Learning and Applications	
COMPSCI 417	Introduction to the Theory of Computation	
COMPSCI 422	Introduction to Artificial Intelligence	
COMPSCI 423	Introduction to Natural Language Processing	
COMPSCI 425	Introduction to Data Mining	
COMPSCI 431	Programming Languages Concepts	
COMPSCI 443	Intelligent User Interfaces and Usability Assessment	
COMPSCI 459	Fundamentals of Computer Graphics	
COMPSCI 469	Introduction to Computer Security	
COMPSCI 511	Symbolic Logic	
COMPSCI 522	Computer Game Design	
COMPSCI 530	Computer Networks Laboratory	
COMPSCI 536	Software Engineering	
COMPSCI 537	Introduction to Operating Systems	
COMPSCI 545	FPGA Embedded CPUs & Firmware Development	
COMPSCI 547	User-Centered Interaction Design	
COMPSCI 557	Introduction to Database Systems	
COMPSCI 654	Introduction to Compilers	
COMPSCI 655	Compiler Implementation Laboratory	
COMPSCI 657	Topics in Computer Science:	
COMPSCI 699	Independent Study	
ELECENG 335	Electronics II	

ELECENG 361	Electromagnetic Fields
ELECENG 362	Electromechanical Energy Conversion
ELECENG 410	Digital Signal Processing
ELECENG 420	Random Signals and Systems
ELECENG 421	Communication Systems
ELECENG 430	Energy Modeling
ELECENG 436	Introduction to Medical Instrumentation
ELECENG 437	Introduction to Biomedical Imaging
ELECENG 439	Introduction to Biomedical Optics
ELECENG 451	Introduction to VLSI Design
ELECENG 461	Microwave Engineering
ELECENG 462	Antenna Theory
ELECENG 464	Fundamentals of Photonics
ELECENG 465	Broadband Optical Networks
ELECENG 474	Introduction to Control Systems
ELECENG 482	Introduction to Nanoelectronics
ELECENG 490	Topics in Electrical Engineering:
ELECENG 541	Integrated Circuits and Systems
ELECENG 545	FPGA Embedded CPUs & Firmware Development
ELECENG 562	Telecommunication Circuits
ELECENG 568	Applications of Digital Signal Processing
ELECENG 572	Power Electronics
ELECENG 574	Intermediate Control Systems
ELECENG 575	Analysis of Electric Machines and Motor Drives
ELECENG 588	Fundamentals of Nanotechnology
ELECENG 699	Independent Study
IND ENG 475	Simulation Methodology
IND ENG 572	Reliability Engineering

*Group B Technical Electives - 4-5 credits*

Select one of the following sequences:

COMPSCI 594 & COMPSCI 595	Capstone Project Preparation and Capstone Project
ELECENG 596 & ELECENG 597	Capstone Design I and Capstone Design II

*Group C Technical Electives - Select 0 to 3 credits from the following list*

BIO SCI 150	Foundations of Biological Sciences I <sup>2</sup>
BIO SCI 152	Foundations of Biological Sciences II
BUS ADM 292	Introduction to Entrepreneurship and Small Business Formation
BUS ADM 447	Entrepreneurship
COMPSCI 481	Server-side Internet Programming
COMPSCI 482	Rich Internet Applications
COMPSCI 581	Web Languages and Standards
COMPSCI 658	Topics in Applied Computing:
EAS 1	Engineering Co-op Work Period <sup>3</sup>
EAS 497	Study Abroad:
ELECENG 471	Electric Power Systems
ELECENG 472	Introduction to Wind Energy
ELECENG 481	Electronic Materials

ENGLISH 206	Technical Writing
IND ENG 360	Engineering Economic Analysis
MATLENG 481	Electronic Materials
MECHENG 301	Basic Engineering Thermodynamics
MECHENG 321	Basic Heat Transfer
MECHENG 542	Introduction to Technology Entrepreneurship
MECHENG 543	Introduction to Technology Management and Innovation

**GER Distribution Requirement - 15 Credits**

Arts		3
Humanities		3
Social Science		6
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3

Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement

**English Composition Requirement**

Select one of the following: 0-6

- Earning a satisfactory score on the English placement test, or other appropriate test as determined by the English Department; or
- Earning a grade of C or higher in ENGLISH 102; or
- Transferring a grade of C or higher in a course equivalent to ENGLISH 102 or higher expository writing course

**Foreign Language Requirement**

The foreign language requirement can be completed with one of these options: 0-8

- Two years of a single foreign language in high school
- Two semesters of a single foreign language in college
- Demonstrate ability by examination

**Free Electives (2-3 Credits) 2-3**

**Total Credits 119-120**

<sup>1</sup> MATH 221, MATH 222, and 2 credits of Free Electives may substitute for MATH 231, MATH 232 and MATH 233  
<sup>2</sup> Cannot be counted as a technical elective if taken to fulfill Chemistry or Biology Requirement above  
<sup>3</sup> Students who earn 3 or more credits of EAS 1 may use 3 of those credits as technical electives

## Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

## Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

## Student Academic Appeals

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You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
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- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

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## Computer Science

The discipline of computer science pertains to the study and design of computer systems, hardware and software, computing techniques, and underlying theory. Our program provides a student with a broad technical background in computer science. It is a flexible program providing breadth and permitting a student to develop strengths in selected areas within computer science, as well as in related areas such as electrical engineering, mathematics, or business, depending on a student's interests. Technical electives available in the Computer Science major span courses in a broad spectrum of areas such as Networks, Computer Security, Artificial Intelligence, and Database Systems.

## Laptop Requirement

A laptop is required hardware for Computer Science and Computer Engineering students beginning in the sophomore year, and for all graduate students. The specific requirements can be found here (<https://uwm.edu/engineering/laptop-requirement-cs-and-ce/>).

## Mission Statement

The Department of Electrical Engineering and Computer Science is committed to outstanding undergraduate and graduate education, distinguished research programs, and strong service to our students, professional and technical societies, and the community.

## Programs

- Applied Computing, BS (p. 586)
- Applied Math and Computer Science, BS (College of Engineering and Applied Science, Department of Computer Science) (p. 587)
- Artificial Intelligence and Machine Learning, Graduate Certificate (Department of Computer Science) (p. 589)
- Computer Science, BA (p. 590)
- Computer Science, BS (p. 593)
- Computer Science, Minor (p. 597)
- Computer Science, MS (p. 597)
- Data Science, BS (College of Engineering and Applied Science, Department of Computer Science) (p. 599)
- Web Development, Undergraduate Certificate (p. 601)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Brian Armstrong	Professor, Co-Chair	PhD	Stanford University	✓	
John T. Boyland	Professor, Co-Chair	PhD	University of California, Berkeley	✓	
Christine T. Cheng	Associate Professor	PhD	Johns Hopkins University	✓	

Robert Cuzner	Associate Professor	PhD	University of Wisconsin-Madison	✓	
George I. Davida	Professor	PhD			✓
Adrian Dumitrescu	Professor	PhD	Rutgers, The State University of New Jersey		✓
Mukul Goyal	Associate Professor	PhD	Ohio State University	✓	
George W. Hanson	Professor	PhD	Michigan State University		✓
Seyed Hosseini	Professor	PhD	University of Iowa		✓
Yi Hu	Associate Professor	PhD	University of Texas at Dallas	✓	
Charles E. Kahn Jr.	Adjunct Professor	MD	University of Illinois at Chicago		
Nikolai A. Kouklin	Professor	PhD	University of Nebraska-Lincoln	✓	
Robert J. Krueger	Professor	PhD			✓
Chiu T. Law	Associate Professor	PhD	Purdue University	✓	
Leonard P. Levine	Professor	PhD			✓
Amol D. Mali	Associate Professor	PhD	Arizona State University	✓	
David McClanahan	Faculty Associate	MSEE	University of Wisconsin-Milwaukee		✓
Susan McRoy	Professor	PhD	University of Toronto	✓	
Devendra K. Misra	Professor	PhD	Michigan State University	✓	
Ethan V. Munson	Professor, Associate Dean	PhD	University of California, Berkeley	✓	
Ali Reza	Professor	PhD			✓
Jayson Rock	Senior Lecturer	MS	University of Wisconsin-Milwaukee		
Robert Sorenson	Senior Lecturer	MS	Marquette University		
George R. Steber	Associate Professor	PhD			✓
Ichiro Suzuki	Professor	PhD, DE	Osaka University, Japan		✓
K. Vairavan	Professor	PhD			✓
Lingfeng Wang	Associate Professor	PhD	Texas A&M University	✓	
Weizong Wang	Associate Professor	PhD	University of Maryland-College Park	✓	
Guangwu Xu	Associate Professor	PhD	University at Buffalo, SUNY		✓
David C. Yu	Professor	PhD	University of Oklahoma		✓
Zeyun Yu	Associate Professor	PhD	The Ohio State University	✓	
Jun Zhang	Professor	PhD	Rensselaer Polytechnic Institute	✓	
Tian Zhao	Associate Professor	PhD	Purdue University	✓	

## Applied Computing, BS

The B.S. in Applied Computing is a fully online 21-course, 61-credit undergraduate program.

As technology continues to expand into every field and industry, from the environment to education to politics, the market for skilled hands-on technicians grows increasingly competitive. The Bachelor of Science in Applied Computing was designed to produce graduates who can perform programming, software engineering, graphic applications, networking, and operating systems management in a variety of environments, while at the same time promoting power skills such as business communications, ethics, and project management.

The applied nature of the degree implies that graduates will have the competencies to solve real-world business problems through the application of technology. Its curriculum puts a deeper focus on fundamental computer science, software engineering, tech security issues, computing solutions for business problems, and data management. A poll of industry representatives indicates that they see a skills gap in computer and information technology related positions which the multidisciplinary focus of this degree would fill.

## Accreditation

The UW Bachelor of Science in Applied Computing program is approved by the University of Wisconsin Board of Regents and approved by the Higher Learning Commission (<http://www.ncahlc.org/>).

## Admissions Process and Requirements

A successful applicant will have:

- A minimum combined grade point average of 2.0 for college credits taken;
- About 60 transferable college credits or an associate degree from an accredited university;
- prerequisite work in college algebra;
- completed online application for undergraduate study; and
- transcripts sent directly from previous institutions to UWM.

## Tuition, Fees, and Financial Aid

Tuition is \$495 per credit or \$30,195 total for 61 credits. Textbooks are purchased separately and are not included in tuition. Students who take at least six credits each term may be eligible for financial assistance.

## General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Please review the requirements and consult with your academic advisor.

## Program Requirements

Code	Title	Credits
APC 300	Programming 1	3
APC 310	Math for Computer Science	3
APC 320	Introduction to Business	3
APC 330	Technical and Professional Communication	3
APC 340	Legal and Ethical Responsibilities of the IT Professional	3
APC 350	Programming 2	3
APC 360	Database Management 1	3
APC 370	System Analysis and Design	3
APC 380	Project Management Techniques	3
APC 390	Object Oriented Programming	3
APC 400	Applied Communication Networks	3
APC 410	Database Management 2	3
APC 420	Computer Security 1	3
APC 430	Applied Data Structures and Algorithms	3
APC 440	Web Development	3
APC 450	Operating Systems Theory and Practice	3
APC 460	Software Engineering	3
APC 470	IS Strategy and Management	3
APC 480	Computer Security 2	3
APC 490	Capstone Project Preparation	1
APC 495	Capstone Project	3
<b>Total Credits</b>		<b>61</b>

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Contact Information

## Applied Math and Computer Science, BS (College of Engineering and Applied Science, Department of Computer Science)

The Applied Mathematics and Computer Science (AMCS) program is a special degree program that blends courses from both the College of Letters & Science and the College of Engineering & Applied Science. It is a structured curriculum offering courses from both applied math and computer science so that students get the benefit of both majors without having to double major.

The job outlook for individuals with math majors is extremely favorable, as is the job outlook for computer science majors. A student with combined knowledge in both areas is likely to be in high demand on the job market.

Our program is highly technical in nature yet still retains elements of a classic liberal arts degree. Students take courses in the humanities, social sciences, and natural sciences on their way to a degree. Why? Because math and computer science are not applied in a world without humans. Regardless of the type of industry, the applications being worked on have impact and consequences for human beings. A broad world view of cultures, history, and society only leads to better decision-making in scientific careers, and strong communication skills only make our graduates even more attractive.

## Applied Math and Computer Science Major Requirements

Students who intend to complete the program in four years will need to begin taking mathematics in their first semester. Such students should have a University of Wisconsin-Milwaukee mathematics placement level of 30 (ready for precalculus) or better.

### Admission

As soon as students realize their interest in the AMCS degree, they should consult with an AMCS advisor either in College of Engineering and Applied Science or College of Letters and Science, who assists in planning a program. Admission to the program requires a GPA of at least 2.500 in 8 credits of mathematics courses at or above the 200 level and 6 credits of computer science courses at or above the 200 level.

### Degree Requirements

For the BS (AMCS) degree, 120 credits are required, of which 60 must be taken from the College of Letters and Science. Students must satisfy the general education requirements (GER) (p. 29) of the University. Students must take at least 8 credits of natural sciences outside of mathematics or mathematical statistics.

An overall GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve a 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.000 GPA

must be earned on all 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree by completing at UWM both a minimum of 15 credits of the required advanced courses and one of the following:

- The last 30 credits;
- 45 of the last 60 credits;
- Any 90 credits.

Code	Title	Credits
<b>Core Requirements</b>		
COMPSCI 250	Introductory Computer Programming	3
COMPSCI 251	Intermediate Computer Programming	3
COMPSCI 317	Discrete Information Structures <sup>1</sup>	3
Select the following (or an equivalent sequence):		12
MATH 231	Calculus and Analytic Geometry I	
MATH 232	Calculus and Analytic Geometry II	
MATH 233	Calculus and Analytic Geometry III	
MATH 234	Linear Algebra and Differential Equations	4
or MATH 240	Matrices and Applications	
MATH 341	Seminar: Introduction to the Language and Practice of Mathematics	3
<b>Advanced Requirements</b>		
COMPSCI 351	Data Structures and Algorithms	3
COMPSCI 535	Algorithm Design and Analysis	3
Select 9 credits in COMPSCI at the 300 level or above		9
Select 12 credits from MATH and/or MTHSTAT and/or ACTSCI at the 300 level or above		12
Select 9 additional credits from CompSci, Math, MthStat, and ActSci courses at the 300 level or above, beyond the "Core" as well as the above "Advanced" Requirements; included in these 9 cr must be a Capstone or Internship Course.		9
<i>Capstone and Internship courses</i>		
MATH 489	Internship in Mathematics, Upper Division	
MTHSTAT 489	Internship in Mathematical Statistics, Upper Division	
MATH 575	High School Mathematics from an Advanced Viewpoint	
MATH 599	Capstone Experience	
ACTSCI 590	Actuarial Internship	
ACTSCI 599	Capstone Experience	
COMPSCI 594	Capstone Project Preparation	
COMPSCI 595	Capstone Project	
COMPSCI 599	Senior Thesis	
<b>Total Credits</b>		<b>64</b>

<sup>1</sup> COMPSCI 317 is waived for students who earn credit for MTHSTAT 361, which counts towards the math electives for the program. Students who have COMPSCI 317 waived in this case do not need to take any additional credits.

**Additional Requirements**

Students completing a Data Science BS who wish to also earn an AMCS BS must complete 9 credits upper division ActSci/Math/MthStat/

CompSci beyond the courses in those curricular areas used to fulfill the Data Science Major requirements.

**Potential Course of Study**

<b>Year 1</b>		
<b>Fall</b>		
COMPSCI 250	Introductory Computer Programming	3
ENGLISH 101	Introduction to College Writing	3
MATH 115	Precalculus	4
1st semester foreign language		3-5
<b>Credits</b>		<b>13-15</b>
<b>Spring</b>		
COMPSCI 251	Intermediate Computer Programming	3
ENGLISH 102	College Writing and Research (OWC-A GER)	3
MATH 231	Calculus and Analytic Geometry I	4
2nd semester foreign language		3-5
<b>Credits</b>		<b>13-15</b>
<b>Year 2</b>		
<b>Fall</b>		
COMPSCI 351	Data Structures and Algorithms	3
MATH 232	Calculus and Analytic Geometry II	4
MATH 341	Seminar: Introduction to the Language and Practice of Mathematics	3
Humanities + Cultural Diversity GER		3
Arts GER		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
COMPSCI 317	Discrete Information Structures	3
MATH 233	Calculus and Analytic Geometry III	4
MATH 234	Linear Algebra and Differential Equations	3-4
or MATH 240	or Matrices and Applications	
Natural Science with lab (NS+ GER)		4-5
<b>Credits</b>		<b>14-16</b>
<b>Year 3</b>		
<b>Fall</b>		
COMPSCI 535	Algorithm Design and Analysis	3
CompSci advanced elective		3
Math advanced elective		3
Math or Comp Sci advanced elective		3
Natural Science GER		3-4
<b>Credits</b>		<b>15-16</b>
<b>Spring</b>		
CompSci advanced elective		3
Math advanced elective		3
Math advanced elective		3
Math or Comp Sci advanced elective		3
Social Science GER		3
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Fall</b>		
CompSci advanced elective		3
Math advanced elective		3
Math or CompSci capstone or internship, plus Math/CS advanced elective if needed to get to 3 cr min		3
Humanities + OWCB		3
Electives as needed to reach cr requirements		6-0
<b>Credits</b>		<b>18-12</b>
<b>Spring</b>		
Electives as needed to reach cr requirements <sup>1</sup>		13-12

Social Science GER	3
<b>Credits</b>	<b>16-15</b>
<b>Total Credits</b>	<b>120</b>

<sup>1</sup> Select a sufficient number of elective credits from the College of Letters and Science to earn a minimum of 60 L&S credits.

## Honors in the Degree

Students in AMCS who meet all of the following criteria can be awarded honors in the degree upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses attempted that count toward the AMCS degree;
3. A 3.500 GPA over all upper division UWM courses counting toward the AMCS degree;
4. A grade of B+ or better in one of: MATH 599, MATH 699, COMPSCI 595, or COMPSCI 699;
5. Completion of 3 credits in Mathematical Sciences (curricular areas MATH or MTHSTAT) or Computer Science in a course numbered 600 or higher that is different from MATH 699 and COMPSCI 699.

Students who believe they may qualify for honors in Applied Mathematics & Computer Science should apply to the Department of Mathematical Sciences during their last semester of study.

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

# Artificial Intelligence and Machine Learning, Graduate Certificate (Department of Computer Science)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The minimum GPA for admission is 2.75 in a prior bachelor's or post-baccalaureate degree (or cumulative credits after admission to a dual bachelor-masters degree program). Applicants should generally have a prior degree in science, engineering, computer science, economics, finance or any other area that requires academic preparation in math and programming. Applicants with other prior degrees will also be considered via holistic assessment of the academic record and professional experience, with a focus on substantial work experience in the quantitative analysis, programming, and adequate mathematics preparation for the required coursework.

## Credits and Courses

The Artificial Intelligence and Machine Learning Graduate Certificate requires a minimum of 15 credits, as described below. At least 12 credits must be taken at UWM.

Code	Title	Credits
<b>Required Courses</b>		
COMPSCI 557G or COMPSCI 715	Introduction to Database Systems Programming for Machine Learning	3
COMPSCI/ELECENG 711 or COMPSCI 411G	Introduction to Machine Learning Machine Learning and Applications	3
<b>Electives <sup>1</sup></b>		<b>9</b>
<i>Application Electives</i>		
COMPSCI/ELECENG 712	Image Processing	
COMPSCI 722	Artificial Intelligence Planning Techniques	
COMPSCI 723 or COMPSCI 423G	Natural Language Processing Introduction to Natural Language Processing	
COMPSCI 744 or COMPSCI 444G	Text Retrieval and Its Applications in Biomedicine Introduction to Text Retrieval and Its Applications in Biomedicine	
ELECENG 574G	Intermediate Control Systems	
ELECENG 810	Foundations for Advanced Machine Learning and Signal Processing	
ELECENG/COMPSCI 811	Advanced Machine Learning	
ELECENG 816	Optimal Control Theory	
MECHENG 476G	Introduction to Robotics	

IND ENG 717	Operations Research in Engineering Management
<i>Generic Electives</i>	
COMPSCI 425G	Introduction to Data Mining
COMPSCI/ELECENG 710	Artificial Intelligence
ELECENG 420G	Random Signals and Systems
ELECENG 474G	Introduction to Control Systems
IND ENG 716	Engineering Statistical Analysis
IND ENG 590/890	Topics in Industrial and Systems Engineering: (Introduction to Connected Systems)
IND ENG 590/890	Topics in Industrial and Systems Engineering: (Engineering Data Analytics)
<b>Total Credits</b>	<b>15</b>

<sup>1</sup> Students must enroll in 3 elective courses. At least 2 must be selected from the Applications Electives section, and at least 2 must be at the 700 level or above.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.

- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Computer Science, BA

Computer science is the study and design of computer systems, networks, software, and computing techniques. It is a dynamic field with a growing impact on the world today.

The Computer Science BA program is intended to permit students to combine interest in an alternate area (in humanities, arts, the professions or even natural science) with computer science in order to gain skills that increase their desirability with employers. Burning Glass found that adding software development or computer programming skills permits graduates to gain a 30+% salary premium over those without.

## New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

## Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies.

The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

## Requirements

### Laptop Requirement

A laptop is required hardware for Computer Science and Computer Engineering students beginning in the sophomore year, and for all graduate students. The specific requirements can be found here (<https://uwm.edu/engineering/laptop-requirement-cs-and-ce/>).

## General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 29) that must be met in order to earn a bachelor's degree. Some of the requirements of the program may fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

## Computer Science Curriculum

Minimum Credit Hours Required: 120

The program requires one semester of calculus (see Mathematics requirements below) and also 34 credits of major course requirements (22 credits of fixed courses and 12 credits of electives within the major). In addition, a student must either complete (or have completed) a second major, or demonstrate two minor areas of concentration. The alternate major or minor areas of concentration must overlap no more than six credits total with major course requirements of this degree. Furthermore, at least fifteen credits of the major course requirements must be completed at UW-Milwaukee.

### Mathematics Requirements

Choose one of the following:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

### Major Course Requirements

Code	Title	Credits
COMPSCI 150	Survey of Computer Science <sup>1</sup>	3
COMPSCI 250	Introductory Computer Programming	3
COMPSCI 251	Intermediate Computer Programming	3
COMPSCI 317	Discrete Information Structures	3
COMPSCI 351	Data Structures and Algorithms	3
COMPSCI 395	Social, Professional, and Ethical Issues <sup>2</sup>	3
COMPSCI 458	Computer Architecture <sup>3</sup>	3
EAS 200	Professional Seminar	1
<b>Technical Electives - Select 12 credits of COMPSCI 300 level or above <sup>4</sup></b>		<b>12</b>
<b>Total Credits</b>		<b>34</b>

<sup>1</sup> COMPSCI 150 may be substituted by any non-required COMPSCI 200+ course for any student who has already completed a COMPSCI 300+ level course.

<sup>2</sup> COMPSCI 395 may be substituted by INFOST 120 or BUS ADM 393.

<sup>3</sup> COMPSCI 458 may be substituted by COMPSCI 315.

<sup>4</sup> INFOST 695 may be counted as a technical elective.

### Second Major and Minor Areas of Concentration

For the purposes of this degree program, an Associate of Applied Science in Information Technology will be considered as a "second major".

Other Associate's degrees are subject to review by the department to be considered for satisfying the second major requirement.

For the purposes of this degree program, a "minor area of concentration" can be any of the following:

- An Associate's degree at UWM or another school;
- A declared UWM Minor;
- A declared UWM Certificate; or
- At least fifteen credits of courses in a single curricular code (other than COMPSCI), of which at least six credits are at the 300-level or higher.

As described above, the two minor areas of concentration can overlap with the major course requirements by no more than six credits total.

## Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

## Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

## Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

## Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

## Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as

they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Joint Programs with Other Campuses

### Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent



coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

## Dual Degree Programs

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

## Joint Programs with Wisconsin Technical Colleges

### Gateway Technical College

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

### Milwaukee Area Technical College

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

### Waukesha County Technical College

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

## Computer Science, BS

Computer science is the study and design of computer systems, networks, software, and computing techniques. But more importantly, it is a dynamic field with a growing impact on the world today. According to the U.S. Bureau of Labor Statistics, employment in computer and information technology occupations is projected to grow 13 percent from 2020 to 2030, faster than average for all occupations.

### Concentrations

- Artificial Intelligence
- Programming Language Design and Implementation
- Software Engineering
- Computer Networking
- Algorithm Design

### Research

Work with faculty (<http://uwm.edu/engineering/classification/faculty/computer-science/>) engaged in leading-edge research in areas such as:

- Object-oriented programming
- Cryptography
- Computational robotics
- Intelligent dialog systems

- Artificial intelligence
- Extensible languages

### Career Paths

Computer Science opens up a multitude of career options with great income potential within both the public and private sectors.

- Software Engineer
- Systems Integration Consultant
- Information Technology Manager
- Game Developer
- Application Developer/Programmer
- Data Analyst

## Accreditation

The Computer Science program is accredited by the Computing Accreditation Commission of ABET: <https://www.abet.org> (<https://nam02.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.abet.org%2F&data=02%7C01%7Cebilicki%40uwm.edu%7C6ce2c28ec5ad4a0c130408d8696f0413%7C0bca7ac3fcb64efd89eb6de97603cf%2BpzMal3jOBSze7g%3D&reserved=0>).

## New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

## Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies.

The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

## Laptop Requirement

A laptop is required hardware for Computer Science and Computer Engineering students beginning in the sophomore year, and for all graduate students. The specific requirements can be found here (<https://uwm.edu/engineering/laptop-requirement-cs-and-ce/>).

## Computer Science Curriculum

The minimum number of credits required to complete the Bachelor of Science in Computer Science with a major in Computer Science is 120.

Code	Title	Credits
<b>Major Requirements</b>		
COMPSCI 250	Introductory Computer Programming	3
COMPSCI 251	Intermediate Computer Programming	3
COMPSCI 317	Discrete Information Structures	3
COMPSCI 337	System Programming	3
COMPSCI 351	Data Structures and Algorithms	3
COMPSCI 361	Introduction to Software Engineering	3
COMPSCI 395	Social, Professional, and Ethical Issues	3
COMPSCI 431	Programming Languages Concepts	3
COMPSCI 458	Computer Architecture	3
COMPSCI 535	Algorithm Design and Analysis	3
COMPSCI 537	Introduction to Operating Systems	3
COMPSCI 594	Capstone Project Preparation	1
COMPSCI 595	Capstone Project	3
EAS 200	Professional Seminar	1
<b>Mathematics Requirement</b>		<b>4</b>
Select one of the following:		
MATH 211	Survey in Calculus and Analytic Geometry I	
MATH 213	Calculus with Life Sciences Applications	
MATH 221	Honors Calculus I	
MATH 231	Calculus and Analytic Geometry I	
<b>Natural Science Requirement - Complete 6 credits including 1 laboratory credit from approved list.</b>		<b>6</b>
<b>Technical Electives - Complete 9 credits from approved list.</b>		<b>9</b>
<b>Applied Mathematics Electives - Complete 9 credits from approved list.</b>		<b>9</b>
<b>Free Electives</b>		<b>39</b>
<b>GER Distribution Requirement</b>		
Arts		3
Humanities		3
Social Science		6
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3
Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement		
Students must also satisfy Oral and Written Communication (OWA) Part A <sup>1</sup>		0-6
Students must also Satisfy the UWM Foreign Language requirements (0-8) <sup>1</sup>		0-8
<b>Total Credits</b>		<b>120</b>

## Approved Natural Science Courses

Code	Title	Credits
<i>Select 6 credits from the following including at least 1 laboratory credit:</i>		
<b>Natural Science courses with laboratory (NS+)</b>		
ASTRON 104	Astronomy Laboratory	
BIO SCI 150	Foundations of Biological Sciences I	
BIO SCI 152	Foundations of Biological Sciences II	
BIO SCI 201	Human Structure and Function	
BIO SCI 203	Anatomy and Physiology II	
CHEM 102	General Chemistry	
CHEM 104	General Chemistry and Qualitative Analysis	
CHEM 105	General Chemistry for Engineering	
GEO SCI 100	Introduction to the Earth	
GEO SCI 102	Principles of Historical Geology	
GEO SCI 120	Geology of the Planets	
GEO SCI 151	Ocean Sciences Laboratory	
GEOG 120	Our Physical Environment	
PHYSICS 121	General Physics Laboratory I (Non-Calculus Treatment)	
PHYSICS 123	General Physics Laboratory II (Non-Calculus Treatment)	
PHYSICS 214	Lab Physics I (Calculus Treatment)	
PHYSICS 215	Lab Physics II (Calculus Treatment)	
PHYSICS 219	Physics I: Calculus-Based, Studio Format	
PHYSICS 220	Physics II: Calculus-Based, Studio Format	
<b>Natural Science courses without laboratory (NS)</b>		
ASTRON 103	Survey of Astronomy	
ATM SCI 194	First-Year Seminar:	
ATM SCI 297	Study Abroad:	
ATM SCI 381	Honors Seminar:	
ATM SCI 497	Study Abroad:	
BIO SCI 194	First-Year Seminar:	
BIO SCI 206	Biology of Women	
BIO SCI 380	Honors Seminar:	
CES 210	Introduction to Conservation and Environmental Science	
CHEM 100	Chemical Science	
GEOG 125	Introduction to Environmental Geography	
GEO SCI 150	Introduction to Ocean Sciences	
GEO SCI 194	First-Year Seminar:	
GEO SCI 381	Honors Seminar:	
PHYSICS 120	General Physics I (Non-Calculus Treatment)	
PHYSICS 122	General Physics II (Non-Calculus Treatment)	
PHYSICS 209	Physics I (Calculus Treatment)	
PHYSICS 210	Physics II (Calculus Treatment)	

## Technical Electives

Code	Title	Credits
<i>Select 9 credits from the following list. All non-required CompSci courses numbered 400-699 are Technical Electives.</i>		
COMPSCI 315	Introduction to Computer Organization and Assembly Language Programming	
COMPSCI 417	Introduction to the Theory of Computation	
COMPSCI 422	Introduction to Artificial Intelligence	
COMPSCI 423	Introduction to Natural Language Processing	
COMPSCI 425	Introduction to Data Mining	
COMPSCI 443	Intelligent User Interfaces and Usability Assessment	
COMPSCI 444	Introduction to Text Retrieval and Its Applications in Biomedicine	
COMPSCI 459	Fundamentals of Computer Graphics	
COMPSCI 469	Introduction to Computer Security	
COMPSCI 481	Server-side Internet Programming	
COMPSCI 482	Rich Internet Applications	
COMPSCI 511	Symbolic Logic	
COMPSCI 520	Computer Networks	
COMPSCI 530	Computer Networks Laboratory	
COMPSCI 536	Software Engineering	
COMPSCI 552	Advanced Object-Oriented Programming	
COMPSCI 557	Introduction to Database Systems	
COMPSCI 581	Web Languages and Standards	
COMPSCI 599	Senior Thesis	
COMPSCI 654	Introduction to Compilers	
COMPSCI 655	Compiler Implementation Laboratory	
COMPSCI 657	Topics in Computer Science:	
COMPSCI 658	Topics in Applied Computing:	
COMPSCI 699	Independent Study	
ELECENG 301	Electrical Circuits I	
ELECENG 305	Electrical Circuits II	
ELECENG 310	Signals and Systems	
ELECENG 330	Electronics I	
ELECENG 340	Embedded Systems I: C and C++ Programming for Embedded Applications	
ELECENG 354	Digital Logic	
ELECENG 440	Embedded Systems II: Advanced Embedded Systems	
ELECENG 367	Introduction to Microprocessors	
ELECENG 451	Introduction to VLSI Design	
ELECENG 457	Digital Logic Laboratory	

## Applied Mathematics Electives

Code	Title	Credits
<i>Select 9 credits from the following:</i>		
IND ENG 367	Introductory Statistics for Physical Sciences and Engineering Students <sup>2</sup>	

MATH 205	Introductory Finite Mathematics
MATH 212	Survey in Calculus and Analytic Geometry II
MATH 222	Honors Calculus II
MATH 232	Calculus and Analytic Geometry II
MATH 233	Calculus and Analytic Geometry III
MATH 234	Linear Algebra and Differential Equations <sup>3,4</sup>
ELECENG 234	Analytical Methods in Engineering <sup>3,4</sup>
MATH 240	Matrices and Applications <sup>3</sup>
MATH 320	Introduction to Differential Equations <sup>4</sup>
MATH 305	Introduction to Mathematical and Computational Modeling
MATH 313	Linear Programming and Optimization
MATH 315	Mathematical Programming and Optimization
MATH 341	Seminar: Introduction to the Language and Practice of Mathematics
MATH 405	Mathematical Models and Applications
MATH 431	Modern Algebra with Applications
MATH 451	Axiomatic Geometry
MTHSTAT 215	Elementary Statistical Analysis <sup>2</sup>
MTHSTAT 361	Introduction to Mathematical Statistics I
MTHSTAT 563	Regression Analysis

<sup>1</sup> See General Education Requirements (p. 30) for details.

<sup>2</sup> A student cannot use more than one of IND ENG 367 and MTHSTAT 215.

<sup>3</sup> Must include exactly one of MATH 240, MATH 234, ELECENG 234.

<sup>4</sup> May include only one of MATH 320, MATH 234, ELECENG 234.

## Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

## Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

## Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

## Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a

program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

## Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

## Honors in the Major

Students in Computer Science who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all upper-division (300 level and higher) Computer Science courses; and
3. At least one of the following:
  - a. Successful completion of 3 credits of research experience via senior thesis (COMPSCI 599) and/or an approved independent study (COMPSCI 699).
  - b. Participation in the Accelerated MS program with successful completion of 6 credits in approved courses for the Master of Science in Computer Science program.

- c. Successful completion of 4 credit team-based, faculty supervised, research experience via a capstone via (COMPSCI 594) and (COMPSCI 595), subject to approval by supervising faculty.

Students who believe they may qualify for honors in Computer Science should apply to the College of Engineering & Applied Science during their last semester of study.

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Joint Programs with Other Campuses

### Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

### Dual Degree Programs

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

## Joint Programs with Wisconsin Technical Colleges

### Gateway Technical College

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering

program. For more information, contact the Office of Student Services at (414) 229-4667.

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### Waukesha County Technical College

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

## Computer Science, Minor

The computer science minor is directed toward those students wishing to develop some strength and background in computer science. This minor also is available to those who have already graduated.

## Requirements

- The minor requires 18 credits selected from Computer Science courses.
- Minimum of 9 credits from 300-level coursework or higher. May not include COMPSCI 395 and prior consent is required to include COMPSCI 657 or COMPSCI 658.
- Minimum of 12 credits of minor coursework must be completed at UWM.
- The student must obtain a minimum GPA, as specified by the department, in the courses used to complete the minor.
- If a bachelor's degree was obtained at another institution, upon completion of the minor requirements the student will be awarded a Certificate of Minor.

## Computer Science, MS

The MS in Computer Science program is a rigorous graduate program designed to meet the needs of any student wishing to gain advanced understanding of the principles and practices needed to harness the power of computing to help society and the world. The program can be a stepping stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity.

## Tracks

The Master of Science in Computer Science (MSCS) degree offers a regular track and a professional track. The regular track is designed to prepare students for PhD research in Computer Science. The professional track is designed to prepare students, possibly with undergraduate majors other than computer science, for success in their industrial careers. Students in the professional track are not eligible for financial aid from Computer Science department.

- MSCS Regular Track
- The Professional Track

## Requirements

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

### MSCS Regular Track

An applicant must meet Graduate School requirements to be considered for admission. Additionally, the applicants must meet either of the following program requirements:

- Undergraduate major in Computer Science.
- Satisfactory completion of two programming courses (such as COMPSCI 250 and COMPSCI 251); at least 6 additional credits of coursework in CS; and one course in calculus (such as MATH 211 or MATH 231).

Applicants without sufficient Computer Science background are encouraged to apply to the professional track. Applicants not admitted to the regular track may be offered admission to the professional track instead. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

The student must have taken five Computer Science courses (specified below) or their equivalents prior to completion of the MS Program. Appropriate courses taken by a student in another program that are considered equivalent to the courses below can be used to satisfy this requirement with the approval of the Department. The five courses are:

Code	Title	Credits
COMPSCI 317	Discrete Information Structures	3
COMPSCI 351	Data Structures and Algorithms	3
COMPSCI 458	Computer Architecture	3
COMPSCI 535	Algorithm Design and Analysis	3
COMPSCI 537	Introduction to Operating Systems	3
<b>Total Credits</b>		<b>15</b>

All students must submit an approved Undergraduate Requirements Assessment (which explains how the requirement will be met) prior to registering for any courses.

The students in the regular track must write a thesis or complete a capstone project.

#### Thesis Option

The minimum credit requirement is 30, comprising:

Code	Title	Credits
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
Select 15 additional credits of 700 or higher level courses, including 9 credits of courses listed in the Qualifying Examination Day 2 Syllabus <sup>1</sup>		15
Select 6 credits of additional courses that carry graduate credit <sup>1</sup>		6
Take 6 credits:		6
COMPSCI 990	Masters Thesis	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Excluding COMPSCI 990.

All courses must be approved in the Program of Study, which must not include any more than one credit of COMPSCI 870. The student must not register for more than 4 credits of COMPSCI 990 in any one semester. The student must write an acceptable thesis under the supervision of a faculty advisor and pass a final comprehensive examination, which will normally focus on the thesis. Once a student begins a thesis under the supervision of an advisor, the graduate program director must approve any change to a new thesis advisor.

#### Capstone Option

The minimum credit requirement is 31, comprising:

Code	Title	Credits
EAS 701	Effective Academic Writing	1
COMPSCI 995	Master's Capstone Project	3
Select 18 additional credits of 700 or higher level courses, including 9 credits of courses listed in the Qualifying Examination Day 2 Syllabus		18
Select 9 credits of additional courses that carry graduate credit		9
<b>Total Credits</b>		<b>31</b>

The student must complete a capstone project under the supervision of a faculty advisor and pass COMPSCI 995 with a grade of B or better. COMPSCI 700 may be used as a substitute for EAS 701, but may not otherwise be used to meet credit requirements. EAS 702 may not be used to meet credit requirements. No more than one credit in COMPSCI 870 can be used to satisfy program requirements.

### The Professional Track

An applicant must meet Graduate School requirements to be considered for admission. We expect that students admitted to the professional track will have knowledge of computer programming to the extent of COMPSCI 250 and COMPSCI 251. Applicants can demonstrate this knowledge via academic coursework or online courses. Applicants can also explain in their Statement of Purpose if they gained this knowledge via work experience. All admitted students are assigned a placement level concerning their knowledge of computer programming. The students may be required to take COMPSCI 250 and/or COMPSCI 251 (or equivalents) based on their placement level.

The student must demonstrate knowledge equivalent to the following four Computer Science courses prior to completion of the MS Program:

Code	Title	Credits
COMPSCI 317	Discrete Information Structures	3
COMPSCI 351	Data Structures and Algorithms	3
COMPSCI 535	Algorithm Design and Analysis	3
COMPSCI 537 or COMPSCI 431	Introduction to Operating Systems Programming Languages Concepts	3
<b>Total Credits</b>		<b>12</b>

This requirement can be met in one of the following ways:

- A grade of "C-" or better in these courses or equivalent CompSt courses.
- Passing the sufficiency exams offered by the department.
- Prior academic coursework approved by the academic advisor (not available for COMPSCI 351).

Graduate credits earned while taking these courses as a graduate student may be used to meet the credit requirements of the program. All students must submit an approved Undergraduate Requirements Assessment (which explains how the requirement will be met) prior to registering for any courses.

The minimum credit requirement is 31 graduate credits, comprising:

Code	Title	Credits
EAS 701	Effective Academic Writing	1
Select at least 15 credits of 700-level (or higher) CompSci courses, including at least 3 credits from courses designated integrative		15
Select up to 9 graduate credits of courses from a pre-approved list of non-CompSci courses considered useful for professionals in CompSci-related industries		9
Select the remaining credits from graduate-level or U/G-level CompSci courses		6
<b>Total Credits</b>		<b>31</b>

Up to 12 credits of prior graduate-level course work (including up to 6 credits of prior graduate-level Computer Science courses) can be used to meet the credit requirements. COMPSCI 700 may be used as a substitute for EAS 701, but may not otherwise be used to meet credit requirements. EAS 702 may not be used to meet credit requirements. No more than one credit in COMPSCI 870 may be used to meet the requirements. All courses must be approved in the Program of Study. Any non-CompSci courses must be approved prior to registration.

## Industrial Internship

With faculty advisor's approval, one credit per semester of COMPSCI 999 may be satisfied with a supervised industrial internship for a maximum of three credits.

## Additional Requirements

### Major Professor as Advisor

The student is assigned an initial faculty advisor at the time of admission. The student selects a faculty member as a thesis or capstone advisor, respectively, as they follow the regular or professional track, after consultation with that faculty member. Any change in faculty advisor requires the documented permission of the new faculty member and the Department. An initial Program of Study with student, advisor and Department approval should be completed prior to the completion of 9

credits in the program. The final Program of Study must be approved by the thesis or capstone advisor, as appropriate.

## Switching between Tracks

A student in the regular track may switch to the professional track at any time. However, such a student will no longer be eligible for research/teaching/project assistantships or any other financial aid from the Computer Science department. A student switching to the professional track may need to take the equivalent of COMPSCI 351. A student admitted under the professional track may switch to the regular track after completing at least 9 credits of 700-level CompSci courses or COMPST 751 with at least 3.5 cumulative GPA. Note that not all courses acceptable under the professional track may be acceptable under the regular track.

## Financial Aid

Students enrolled in the professional track are not eligible for financial aid from the Computer Science department including research assistantships, teaching assistantships, project assistantships, fellowships and/or tuition waivers. However, such students are still eligible for financial aid available elsewhere on the campus.

## Time Limit

All students must complete the degree requirements within five years of initial enrollment.

# Data Science, BS (College of Engineering and Applied Science, Department of Computer Science)

The Bachelor of Science in Data Science (BSDS) program is a special degree program that blends courses from both the College of Letters & Science and the College of Engineering & Applied Science. It is a structured curriculum offering courses from both statistics and computer science, in addition to electives from other departments and colleges.

The job outlook for individuals with data science degrees is extremely favorable. A student with combined skills in statistical analysis and computer programming is likely to be in high demand on the job market.

Our program is highly technical in nature yet still retains elements of a classic liberal arts degree. Students take courses in the humanities, social sciences, and natural sciences as part of the general education requirements, in addition to mandatory courses on the ethical implications of data science and on writing and communication. A broad world view of cultures, history, and society leads to better decision-making in scientific careers, and strong communication skills make graduates even more attractive in the job market.

## Data Science Program Requirements

Students who intend to complete the BS in Data Science (BSDS) program in four years will need to begin taking mathematics in their first semester. Such students should have a University of Wisconsin-Milwaukee mathematics placement level of 30 (ready for precalculus) or better.

## Admission

For admission to the BSDS program, students need only meet the general requirements of admission to UW-Milwaukee.

As soon as students realize their interest in the BSDS degree, they should consult with an BSDS advisor either in the College of Engineering and Applied Science or College of Letters and Science, who will assist in planning a program.

## Degree Requirements

The program requires at least 120 credits, which include University-wide General Education Requirements (<https://catalog.uwm.edu/policies/undergraduate-policies/#bachelorsdegreegeneraleducation>), 23-28 credits of mandatory preparatory courses, 36 credits of mandatory advanced core courses, a capstone course or an internship at the end of the coursework, and additional elective courses to fulfill the overall credit requirement.

An average GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve an average 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.000 GPA must be earned, on average, on 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree by completing at UWM both a minimum of 15 credits of the required advanced courses and one of the following:

- The last 30 credits;
- 45 of the last 60 credits;
- Any 90 credits.

Code	Title	Credits
<b>Preparatory Courses</b>		
<i>Mathematics</i>		
One of the following calculus sequences (or an equivalent) <sup>1</sup>		8-12
MATH 231 & MATH 232 & MATH 233	Calculus and Analytic Geometry I and Calculus and Analytic Geometry II and Calculus and Analytic Geometry III	
MATH 211 & MATH 212	Survey in Calculus and Analytic Geometry I and Survey in Calculus and Analytic Geometry II	
MATH 234 or MATH 240	Linear Algebra and Differential Equations Matrices and Applications	3-4
<i>Computer Science</i>		
COMPSCI 250	Introductory Computer Programming	3
COMPSCI 251	Intermediate Computer Programming	3
<i>Statistics</i>		
MTHSTAT 215 or IND ENG 367	Elementary Statistical Analysis Introductory Statistics for Physical Sciences and Engineering Students	3
MTHSTAT 216	Introduction to Statistical Computing and Data Science	3
<b>Total Credits</b>		<b>23-28</b>

<sup>1</sup> One equivalent sequence accepted is MATH 221 & MATH 222, or a student may replace MATH 211 or MATH 231 with MATH 213 (for other combinations see advisor).

Code	Title	Credits
<b>Core Courses</b>		
<i>Statistics</i>		

MTHSTAT 361	Introduction to Mathematical Statistics I	3
MTHSTAT 362	Introduction to Mathematical Statistics II	3
MTHSTAT 563	Regression Analysis	3
MTHSTAT 566	Computational Statistics	3
MTHSTAT 568	Multivariate Statistical Analysis	3
<i>Computer Science</i>		
COMPSCI 317 or MATH 341	Discrete Information Structures Seminar: Introduction to the Language and Practice of Mathematics	3
COMPSCI 351	Data Structures and Algorithms	3
COMPSCI 395 or PHILOS 237	Social, Professional, and Ethical Issues Technology, Values, and Society	3
COMPSCI 422	Introduction to Artificial Intelligence	3
COMPSCI 411 or COMPSCI 425	Machine Learning and Applications Introduction to Data Mining	3
COMPSCI 557	Introduction to Database Systems	3
<i>Communication and Ethics</i>		
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3
<b>Total Credits</b>		<b>36</b>

Code	Title	Credits
<b>Capstone Experience (select one of the options below)</b>		
MTHSTAT 489	Internship in Mathematical Statistics, Upper Division	1-6
MATH 599	Capstone Experience	1
COMPSCI 595	Capstone Project	3
COMPSCI 599	Senior Thesis	3
<b>Electives (to reach 120 total credits)</b>		
Suggested are courses with substantial data analysis, data processing, or computational content, such as:		
COMPSCI 315	Introduction to Computer Organization and Assembly Language Programming	3
COMPSCI 411	Machine Learning and Applications	3
COMPSCI 423	Introduction to Natural Language Processing	3
COMPSCI 425	Introduction to Data Mining	3
COMPSCI 444	Introduction to Text Retrieval and Its Applications in Biomedicine	3
COMPSCI 459	Fundamentals of Computer Graphics	3
COMPSCI 469	Introduction to Computer Security	3
COMPSCI 535	Algorithm Design and Analysis	3
MTHSTAT 562	Design of Experiments	3
MTHSTAT 564	Time Series Analysis	3
MTHSTAT 565	Nonparametric Statistics	3
MATH 315	Mathematical Programming and Optimization	3
MATH 318	Topics in Discrete Mathematics	3
MATH 583	Introduction to Probability Models	3
INFOST 120	Information Technology Ethics	3



INFOST 315	Knowledge Organization for Information Science and Technology	3
INFOST 465	Legal Aspects of Information Products and Services	3
INFOST 660	Information Policy	3
INFOST 661	Information Ethics	3

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Web Development, Undergraduate Certificate

The Web Development Certificate is designed to offer students the opportunity to complement their major field of study with an additional concentration in web programming. This certificate is also available to those who have already graduated.

## Requirements

At least 8 credits must be completed at UWM. The student must maintain a minimum GPA, as specified by department, in courses used to complete the certificate. No course may be taken on a credit/no credit basis.

The 18-credit certificate requires the following:

Code	Title	Credits
<b>Computer Programming (3 credits) - Select one of the following:</b>		<b>3</b>
COMPSCI 202	Introductory Programming Using Python	3
COMPSCI 351	Data Structures and Algorithms	3
<b>Web Documents (3 credits) - Select one of the following:</b>		<b>3</b>
ART 325	Web Design II	3
COMPSCI 113	Introduction to Web Document Production	3
INFOST 320	Web Design II	3

<b>Web Programming (3 credits) - Select one of the following:</b>		<b>3</b>
COMPSCI 361	Introduction to Software Engineering	3
COMPSCI 481	Server-side Internet Programming	3
<b>Web Applications (3 credits) - Must complete this course</b>		<b>3</b>
COMPSCI 482	Rich Internet Applications	3

## Electives

Code	Title	Credits
<b>Electives (6 credits) - Select 2 courses from the following list:</b>		<b>6</b>
ART 218	Moving Images and Sound in Art & Design	3
ART 224	Dynamic Typography	3
ART 325	Web Design II	3
BUS ADM 531	Developing Applications for Interconnected Systems	3
BUS ADM 532	Web Development for Open Business Systems	3
COMMUN 313	Human Communication and Technology	3
COMMUN 413	Rhetoric and the Internet	3
COMPSCI 112	Introduction to the Internet and the World Wide Web	3
COMPSCI 150	Survey of Computer Science	3
COMPSCI 425	Introduction to Data Mining	3
COMPSCI 444	Introduction to Text Retrieval and Its Applications in Biomedicine	3
COMPSCI 469	Introduction to Computer Security	3
COMPSCI 530	Computer Networks Laboratory	3
COMPSCI 552	Advanced Object-Oriented Programming	3
COMPSCI 557	Introduction to Database Systems	3
CURRINS 530	Workshop in Computer Instruction in the Schools	3
CURRINS 547	Curricular Applications of the Internet	3
ENGLISH 439	Information Design	3
HCA 444	Introduction to Text Retrieval and Its Applications in Biomedicine	3
HCA 542	Healthcare Database Design and Management	3
INFOST 325	Information Security I	3
INFOST 370	Data Analysis and Visualization for the Information Professional	3
INFOST 375	Multimedia Web Design	3
INFOST 685	Electronic Publishing and Web Design	3

## Electrical Engineering

Electrical engineers are at the forefront of developing technologies to improve and enhance our society. They are involved with understanding the fundamentals of nature to improve design methods and techniques, as well as applying their creativity to solving challenging problems. Electrical engineers design and analyze systems for supplying electric power; navigation systems for automobiles, aircraft, and spacecraft; audio and visual communication systems; and systems for information processing and computing.

The major in electrical engineering provides the undergraduate student with a broad understanding of the many areas within the field of electrical engineering. At the same time, the curriculum provides a choice of technical electives designed to strengthen the student in a chosen area of specialization.

## Mission Statement

The Department of Electrical Engineering is committed to outstanding undergraduate and graduate education, distinguished research programs,

and strong service to our students, professional and technical societies, and the community.

## Programs

- Artificial Intelligence and Machine Learning, Graduate Certificate (Department of Electrical Engineering) (p. 603)
- Electrical Engineering, BSE (p. 604)
- Electrical Engineering, Minor (p. 608)
- Electrical Engineering, PhD (p. 608)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Brian Armstrong	Professor, Co-Chair	PhD	Stanford University	✓	
John T. Boyland	Professor, Co-Chair	PhD	University of California, Berkeley	✓	
Christine T. Cheng	Associate Professor	PhD	Johns Hopkins University	✓	
Robert Cuzner	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Adrian Dumitrescu	Professor	PhD	Rutgers, The State University of New Jersey		✓
Mukul Goyal	Associate Professor	PhD	Ohio State University	✓	
George Hanson	Professor	PhD	Michigan State University		✓
Seyed Hosseini	Professor	PhD	University of Iowa		✓
Yi Hu	Associate Professor	PhD	University of Texas at Dallas	✓	
Charles E. Kahn Jr.	Adjunct Professor	MD	University of Illinois at Chicago		
Nikolai A. Kouklin	Professor	PhD	University of Nebraska - Lincoln	✓	
Robert J. Krueger	Professor	PhD			✓
Chiu T. Law	Associate Professor	PhD	Purdue University	✓	
Amol D. Mali	Associate Professor	PhD	Arizona State University	✓	
David McClanahan	Faculty Associate	MSEE	University of Wisconsin-Milwaukee		✓
Susan McRoy	Professor	PhD	University of Toronto	✓	
Devendra K. Misra	Professor	PhD	Michigan State University	✓	
Ethan V. Munson	Professor	PhD	University of California, Berkeley	✓	
Ali Reza	Professor	PhD			✓
Ichiro Suzuki	Professor	PhD	Osaka University, Japan		✓
Lingfeng Wang	Professor	PhD	Texas A&M University	✓	
Weizhong Wang	Associate Professor	PhD	University of Maryland, College Park	✓	
Guangwu Xu	Associate Professor	PhD	University at Buffalo, SUNY		✓
David C. Yu	Professor	PhD	University of Oklahoma		✓
Zeyun Yu	Associate Professor	PhD	The Ohio State University	✓	
Jun Zhang	Professor	PhD	Rensselaer Polytechnic Institute	✓	
Tian Zhao	Associate Professor	PhD	Purdue University	✓	

# Artificial Intelligence and Machine Learning, Graduate Certificate (Department of Electrical Engineering)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The minimum GPA for admission is 2.75 in a prior bachelor's or post-baccalaureate degree (or cumulative credits after admission to a dual bachelor-masters degree program). Applicants should generally have a prior degree in science, engineering, computer science, economics, finance or any other area that requires academic preparation in math and programming. Applicants with other prior degrees will also be considered via holistic assessment of the academic record and professional experience, with a focus on substantial work experience in the quantitative analysis, programming, and adequate mathematics preparation for the required coursework.

## Credits and Courses

The Artificial Intelligence and Machine Learning Graduate Certificate requires a minimum of 15 credits, as described below. At least 12 credits must be taken at UWM.

Code	Title	Credits
<b>Required Courses</b>		
COMPSCI 557G or COMPSCI 715	Introduction to Database Systems Programming for Machine Learning	3
COMPSCI/ELECENG 711 or COMPSCI 411G	Introduction to Machine Learning Machine Learning and Applications	3
<b>Electives <sup>1</sup></b>		<b>9</b>
<i>Application Electives</i>		
COMPSCI/ELECENG 712	Image Processing	
COMPSCI 722	Artificial Intelligence Planning Techniques	
COMPSCI 723 or COMPSCI 423G	Natural Language Processing Introduction to Natural Language Processing	
COMPSCI 744 or COMPSCI 444G	Text Retrieval and Its Applications in Biomedicine Introduction to Text Retrieval and Its Applications in Biomedicine	
ELECENG 574G	Intermediate Control Systems	
ELECENG 810	Foundations for Advanced Machine Learning and Signal Processing	
ELECENG/COMPSCI 811	Advanced Machine Learning	
ELECENG 816	Optimal Control Theory	
MECHENG 476G	Introduction to Robotics	

IND ENG 717	Operations Research in Engineering Management
<i>Generic Electives</i>	
COMPSCI 425G	Introduction to Data Mining
COMPSCI/ELECENG 710	Artificial Intelligence
ELECENG 420G	Random Signals and Systems
ELECENG 474G	Introduction to Control Systems
IND ENG 716	Engineering Statistical Analysis
IND ENG 590/890	Topics in Industrial and Systems Engineering: (Introduction to Connected Systems)
IND ENG 590/890	Topics in Industrial and Systems Engineering: (Engineering Data Analytics)
<b>Total Credits</b>	<b>15</b>

<sup>1</sup> Students must enroll in 3 elective courses. At least 2 must be selected from the Applications Electives section, and at least 2 must be at the 700 level or above.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.

- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Electrical Engineering, BSE

Electrical engineering graduates pursue careers in fields such as energy generation and transmission, renewable energy, power electronics, bio-imaging and devices, signal and image processing, communications, optical and photonic circuits and devices, controls and automation, and many other areas.

### Concentrations

Several possible technical elective course groupings are listed below, as an aid in choosing technical electives. Electrical engineering students do not need to follow any particular grouping – the listings described below are provided as a guide only. In the long term, students will be better prepared for an engineering career having a broad exposure to different technical areas, rather than a narrow focus in one specialized area.

- Power Electronics and Power Systems
- Optics
- Nanotechnology/Nanoengineering
- Microwave/Radio-Frequency Engineering
- Electronics
- Controls
- Computer Systems
- Communications and Signal Processing
- Biomedical Imaging
- Embedded Systems

### Research

Work with faculty (<http://uwm.edu/engineering/classification/faculty/electrical-engineering/>) engaged in leading-edge research in areas such as:

- Optics and photonics in neuroscience
- Renewable energy
- Machine learning
- Artificial intelligence
- Data visualization
- Electric vehicles, aircraft and ships

## Accreditation

The Electrical Engineering program is accredited by the Engineering Accreditation Commission of ABET: <https://www.abet.org> (<https://tinyurl.com/u7fsfevw/>).

## New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology,

chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

## Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies.

The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

## Electrical Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in Electrical Engineering is 120.

Code	Title	Credits
<b>Electrical Engineering Major Requirements with mini-tracks (35 credits)</b>		
EAS 200	Professional Seminar	1
ELECENG 101	Fundamentals of Electrical Engineering 1	3
ELECENG 140	Intro to Embedded Computing I: Digital Logic and Microprocessors	3
ELECENG 240	Intro to Embedded Computing II: C Programming for Embedded Applications	4
ELECENG 301	Electrical Circuits I	3
ELECENG 310	Signals and Systems	3
ELECENG 330	Electronics I	4
ELECENG 420	Random Signals and Systems	3
ELECENG 596	Capstone Design I	3
ELECENG 597	Capstone Design II	2
<b>Mini-Track Courses</b>		<b>6</b>
Select One from the following Options. If the chosen mini-track carries more than 6 credits, the extra credits will be counted as Group A technical Elective credits.		
<i>Option I</i>		
ELECENG 340	Embedded Systems I: C and C++ Programming for Embedded Applications	
ELECENG 440	Embedded Systems II: Advanced Embedded Systems	
<i>Option II</i>		

ELECENG 305	Electrical Circuits II	
ELECENG 335	Electronics II	
<b>Option III</b>		
ELECENG 361	Electromagnetic Fields	
ELECENG 362	Electromechanical Energy Conversion	
<b>Mathematics Requirement (16 credits)<sup>2</sup></b>		
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
ELECENG 234	Analytical Methods in Engineering	4
<b>Chemistry and Biology Requirements (4 credits)</b>		
Select One from the following options		4
<i>Option I (4 credits will be counted here and 1 credit will be counted as Group A technical elective credit)</i>		
CHEM 105	General Chemistry for Engineering	
or CHEM 102	General Chemistry	
<i>Option II</i>		
BIO SCI 202	Anatomy and Physiology I	
<b>Physics Requirement (10 credits)</b>		
PHYSICS 209	Physics I (Calculus Treatment)	5
& PHYSICS 214	and Lab Physics I (Calculus Treatment)	
PHYSICS 210	Physics II (Calculus Treatment)	5
& PHYSICS 215	and Lab Physics II (Calculus Treatment)	
<b>Technical Electives - Select 31 credits from approved lists</b>		<b>31</b>
<b>GER Distribution Requirement (15 credits)</b>		
Arts		3
Humanities		3
Social Science		6
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3
Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement		
<b>Free Electives (9 Credits)</b>		<b>9</b>
<b>Students must also satisfy Oral and Written Communication (OWA) Part A<sup>3</sup></b>		<b>0-6</b>
<b>Students must also satisfy the UWM Foreign Language requirements<sup>3</sup></b>		<b>0-8</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Any CEAS Freshman Engineering course or approved transfer Freshman Engineering course will meet the ELECENG 101 requirement.  
<sup>2</sup> MATH 221, MATH 222 and two free electives may substitute for MATH 231, MATH 232 and MATH 233.  
<sup>3</sup> See General Education Requirements (p. 30).

### Technical Electives

The electrical engineering program requires a total of 31 credits of technical electives, chosen as follows. All non-required Electrical Engineering courses numbered 400-699 are Group A Technical Electives.

Code	Title	Credits
<b>Group A Technical Electives</b>		
Select at least 25 credits from the following or any mini-track course which hasn't been used to satisfy the mini-track requirement. The extra credits above 6 in the chosen mini-track and 1 extra credit from CHEM 102 or CHEM 105 are also counted towards Group A technical elective credits.		25-31
BUS ADM 447	Entrepreneurship	
COMPSCI 459	Fundamentals of Computer Graphics	
COMPSCI 520	Computer Networks	
COMPSCI 530	Computer Networks Laboratory	
EAS 1	Engineering Co-op Work Period <sup>1</sup>	
EAS 497	Study Abroad: <sup>2</sup>	
ELECENG 410	Digital Signal Processing	
ELECENG 421	Communication Systems	
ELECENG 436	Introduction to Medical Instrumentation	
ELECENG 437	Introduction to Biomedical Imaging	
ELECENG 440	Embedded Systems II: Advanced Embedded Systems	
ELECENG 451	Introduction to VLSI Design	
ELECENG 457	Digital Logic Laboratory	
ELECENG 458	Computer Architecture	
ELECENG 461	Microwave Engineering	
ELECENG 462	Antenna Theory	
ELECENG 464	Fundamentals of Photonics	
ELECENG 465	Broadband Optical Networks	
ELECENG 471	Electric Power Systems	
ELECENG 472	Introduction to Wind Energy	
ELECENG 474	Introduction to Control Systems	
ELECENG 481	Electronic Materials	
ELECENG 482	Introduction to Nanoelectronics	
ELECENG 490	Topics in Electrical Engineering:	
ELECENG 541	Integrated Circuits and Systems	
ELECENG 545	FPGA Embedded CPUs & Firmware Development	
ELECENG 562	Telecommunication Circuits	
ELECENG 565	Optical Communication	
ELECENG 568	Applications of Digital Signal Processing	
ELECENG 572	Power Electronics	
ELECENG 574	Intermediate Control Systems	
ELECENG 575	Analysis of Electric Machines and Motor Drives	
ELECENG 588	Fundamentals of Nanotechnology	
ELECENG 599	Senior Thesis	
IND ENG 360	Engineering Economic Analysis	
IND ENG 550	Control of Automated Manufacturing Systems	
MECHENG 301	Basic Engineering Thermodynamics	
MECHENG 321	Basic Heat Transfer	
<b>Group B Technical Electives</b>		
Select up to 6 credits from the following:		0-6
Any ATM SCI course 100-level or above		
Any BIO SCI course 150-level or above <sup>3</sup>		

Any CHEM course 200-level or above, or CHEM 104<sup>4</sup>

Any COMPSCI course 200-level or above

Any MATH course 400-level or above, or MATH 313, MATH 322, or MATH 325

Any PHYSICS course 300-level or above

MATLENG 201      Engineering Materials

- <sup>1</sup> Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.
- <sup>2</sup> Students who earn 3 or more credits of Study Abroad may use 3 of those credits as approved technical electives.
- <sup>3</sup> Students who take BIO SCI 202 to satisfy Chemistry and Biology requirements cannot double count 4 credits here.
- <sup>4</sup> Students who take CHEM 102 and CHEM 104 (equaling a minimum of 8 credits) may use up to 3 credits of CHEM 104 as Group B technical electives.

## Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet

all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

## Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

## Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

## Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

## Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation,

course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

## Honors in the Major

Students in Electrical Engineering who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all CEAS courses counting toward the EE major;
3. A 3.500 GPA over all upper-division (300 level and higher) EE courses; and
4. At least one of the following:
  - a. Successful completion of 3-cr of research experience via senior thesis (ELECENG 599).
  - b. Participation in accelerated MS program with successful completion of 6 credits in approved courses for the EE concentration in MS in Engineering program.

Students who believe they may qualify for honors in Electrical Engineering should apply to the College of Engineering & Applied Science during their last semester of study.

NOTE: The Senior Thesis consists of working with a professor to define a project, perform the project, and write up results of the project to present to a three-professor committee for acceptance. A typical Senior Thesis report would be 15-30 pages consisting of project description, literature search, what was done, and conclusions.

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Joint Programs with Other Campuses

### Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

### Dual Degree Programs

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

## Joint Programs with Wisconsin Technical Colleges

### Gateway Technical College

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

### Milwaukee Area Technical College

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

### Waukesha County Technical College

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program.

For more information, contact the Office of Student Services at (414) 229-4667.

## Electrical Engineering, Minor

The minor in electrical engineering is designed for students in engineering and science majors. The minor is not available to electrical engineering majors.

### Requirements

It requires students to take a minimum of 21 credits, of which not more than 6 credits overlap with the student's major. Students must attain a minimum GPA of 2.0 in the minor.

Code	Title	Credits
<b>Core</b>		
Select 15 credits from the following:		15
ELECENG 301	Electrical Circuits I	
ELECENG 305	Electrical Circuits II	
ELECENG 310	Signals and Systems	
ELECENG 330	Electronics I	
ELECENG 335	Electronics II	
ELECENG 354	Digital Logic	
ELECENG 361	Electromagnetic Fields	
ELECENG 362	Electromechanical Energy Conversion	
ELECENG 367	Introduction to Microprocessors	
ELECENG 595	Capstone Design Project	
<b>Electives</b>		
Select 6 electives (see below)		6
<b>Total Credits</b>		<b>21</b>

### Electives

No more than 6 credits from the following list may be counted towards the minor:

Code	Title	Credits
COMPSCI 458	Computer Architecture	3
COMPSCI 459	Fundamentals of Computer Graphics	3
COMPSCI 536	Software Engineering	3
ELECENG 410	Digital Signal Processing	3
ELECENG 420	Random Signals and Systems	3
ELECENG 421	Communication Systems	3
ELECENG 436	Introduction to Medical Instrumentation	3
ELECENG 439	Introduction to Biomedical Optics	3
ELECENG 437	Introduction to Biomedical Imaging	3
ELECENG 451	Introduction to VLSI Design	3
ELECENG 457	Digital Logic Laboratory	3
ELECENG 461	Microwave Engineering	3
ELECENG 462	Antenna Theory	3
ELECENG 465	Broadband Optical Networks	3
ELECENG 471	Electric Power Systems	3
ELECENG/MECHENG 474	Introduction to Control Systems	4
MECHENG 490	Topics in Mechanical Engineering:	1-3
ELECENG 541	Integrated Circuits and Systems	3

ELECENG 562	Telecommunication Circuits	3
ELECENG 565	Optical Communication	3
ELECENG 572	Power Electronics	3
ELECENG/MECHENG 574	Intermediate Control Systems	3
MATLENG 481	Electronic Materials	3
MECHENG 321	Basic Heat Transfer	4

More information on the minor may be obtained from the CEAS Office of Student Services (414) 229-4667, EMS Room E386.

## Electrical Engineering, PhD

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in Electrical Engineering provides a program of coursework and in-depth scholarly research in an area of Electrical Engineering.

The PhD degree requires a minimum of 54 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

The program follows the College's **existing Ph.D. admission requirements**, which are:

- Bachelor's or Master's degree in electrical engineering.
- If you have BS or MS degrees outside of electrical engineering, you may be admitted with no more than two course deficiencies.
- Minimum GPA of 3.0 in the highest degree granted based on a 4.0 scale.
- A brief statement describing your professional goals (i.e., Statement of Purpose, SoP) and two letters of reference.
- The Graduate Record Examination (GRE) is required for all international and domestic applicants.
- International students require proof of English language proficiency.

### Credits and Courses

The electrical engineering doctoral program will be comprised of 54 graduate credits beyond the Bachelor's degree with minimum credit distribution as follows:

Code	Title	Credits
<b>Electrical Engineering Topics</b>		<b>21</b>
<b>Approved Minor Area (within or outside of Electrical Engineering)</b>		<b>6</b>



<b>Approved Electives</b>	<b>9</b>
<b>CEAS Graduate Seminars</b>	
EAS 701 Effective Academic Writing	1
EAS 702 Preparing Future Engineering Faculty & Professionals	2
<b>Doctoral Thesis</b>	<b>15</b>
ELECENG 998 Doctoral Thesis	
<b>Total Credits</b>	<b>54</b>

A minimum of 27 credits (including thesis) must be completed in the Ph.D. program at UWM, and a minimum of 21 credits, excluding dissertation, must be at the 700 level or higher.

Courses are chosen by the student in consultation with her/his advisors.

The minor must be taken using courses outside of Electrical Engineering (and excluding cross-listed courses) in other CEAS programs, or in the physical sciences, management sciences, or mathematics. However, in some cases there may be a subdomain of Electrical Engineering that is clearly separate yet necessary and complementary to their major area courses. In this case, the student may create a Program of Study that specifies a set of minor courses taken from within Electrical Engineering. These minor courses must be approved by the advisor \*prior\* to taking any of them.

A maximum of 24 credits may be considered for transfer from prior graduate work, including a Master's degree earned at UWM or elsewhere provided the course work taken falls within the appropriate areas and has earned a grade of "B" or better. Students entering the program without an applicable Master's degree are limited to a maximum transfer of 9 credits for courses taken elsewhere.

Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval by the CEAS Graduate Studies Office has been obtained prior to registration in such courses. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

Code	Title	Credits
<b>Graduate Course List</b>		
ELECENG 410G	Digital Signal Processing	3
ELECENG 420G	Random Signals and Systems	3
ELECENG 421G	Communication Systems	3
ELECENG 430G	Energy Modeling	3
ELECENG 436G	Introduction to Medical Instrumentation	3
ELECENG 437G	Introduction to Biomedical Imaging	3
ELECENG 439G	Introduction to Biomedical Optics	3
ELECENG 451G	Introduction to VLSI Design	3
ELECENG 457G	Digital Logic Laboratory	3
ELECENG 458G	Computer Architecture	3
ELECENG 461G	Microwave Engineering	3
ELECENG 462G	Antenna Theory	3
ELECENG 464G	Fundamentals of Photonics	3
ELECENG 465G	Broadband Optical Networks	3
ELECENG 471G	Electric Power Systems	3
ELECENG 472G	Introduction to Wind Energy	3
ELECENG 474G	Introduction to Control Systems	4

ELECENG 481G	Electronic Materials	3
ELECENG 482G	Introduction to Nanoelectronics	3
ELECENG 490G	Topics in Electrical Engineering:	1-3
ELECENG 541G	Integrated Circuits and Systems	3
ELECENG 545G	FPGA Embedded CPUs & Firmware Development	3
ELECENG 562G	Telecommunication Circuits	3
ELECENG 565G	Optical Communication	3
ELECENG 568G	Applications of Digital Signal Processing	3
ELECENG 572G	Power Electronics	3
ELECENG 574G	Intermediate Control Systems	3
ELECENG 575G	Analysis of Electric Machines and Motor Drives	3
ELECENG 588G	Fundamentals of Nanotechnology	3
ELECENG 699G	Independent Study	1-3
ELECENG 700	CEAS Graduate Seminar	1-3
ELECENG 701	Advanced Linear System Analysis	3
ELECENG 710	Artificial Intelligence	3
ELECENG 711	Introduction to Machine Learning	3
ELECENG 712	Image Processing	3
ELECENG 716	Tomography: Imaging and Image Reconstruction	3
ELECENG 717	Tomography: Image Quality and Artifact Correction	3
ELECENG 718	Nonlinear Control Systems	3
ELECENG 721	Digital Communications	3
ELECENG 733	Sensors and Systems	3
ELECENG 737	Medical Imaging Signals and Systems	3
ELECENG 741	Electromagnetic Fields and Waves	3
ELECENG 742	Electromagnetic Wave Theory	3
ELECENG 755	Information and Coding Theory	3
ELECENG 758	Advanced Computer Architecture	3
ELECENG 760	Computer Systems Performance Evaluation	3
ELECENG 762	Fault-Tolerant Computing	3
ELECENG 765	Introduction to Fourier Optics and Optical Signal Processing	3
ELECENG 766	Introduction to Nonlinear Optics	3
ELECENG 781	Advanced Synchronous Machinery	3
ELECENG 810	Foundations for Advanced Machine Learning and Signal Processing	3
ELECENG 816	Optimal Control Theory	3
ELECENG 819	Adaptive Control Theory	3
ELECENG 872	Computer Analysis of Electric Power Systems	3
ELECENG 880	Bioengineering Seminar	1
ELECENG 888	Candidate for Degree	0
ELECENG 890	Special Topics:	3
ELECENG 990	Masters Thesis	1-9
ELECENG 998	Doctoral Thesis	1-12
ELECENG 999	Advanced Independent Study	1-3

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The department will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Representative for approval. For subsequent changes, the student must file a revised program of study for approval.

### Foreign Language

There is no foreign language requirement for the degree.

### Residence

The program residence requirement is satisfied either by completing 8 or more graduate credits in each of two consecutive semesters, inclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

### Qualifying Examination

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination reflects the major areas of Electrical Engineering.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master's degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

- If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
- If the student fails both parts, then the student must take the entire exam again at its next offering.
- If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.
- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Electrical Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Electrical Engineering program

because of failing the qualifying exam may not be enrolled in the PhD in Electrical Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

### Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a 7 relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field. The Major Professor is generally a faculty member from the EECS Department who has Graduate Faculty status.

### Doctoral Preliminary Examination

A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Electrical Engineering and should be taken within the first five years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

### Dissertation and Dissertator Status

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Electrical Engineering program requirement that the student complete at least 18 credits of doctoral thesis. After the student has successfully completed all degree requirements except the dissertation, the student may apply for Dissertator Status.

Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student's advisor and the Doctoral Program Committee of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

### Dissertation Defense

The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken

after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

## Engineering and Applied Science (Graduate Programs)

With the exception of the Master of Science in Computer Science, the graduate programs offered by the College of Engineering and Applied Science are college-wide programs, and the responsibility for these programs is vested in the graduate faculty of the College operating via an interdepartmental committee, the Graduate Program Subcommittee (GPSC).

The engineering master's program offered by the College is the Master of Science in Engineering.

The program provides breadth by requiring a program of coursework and depth through participation in research or design synthesis. The research or design synthesis effort is documented in a thesis that is presented and defended by the student at the final degree examination. For those with prior engineering/scientific work experience which includes appropriate report writing, the program offers a non-thesis option which requires additional coursework in lieu of thesis.

Since the program does not require a rigid set of courses, each student, in consultation with faculty, has the flexibility to put together a program of study which is compatible with the student's career objectives. The flexibility of customizing the program of study makes the Master of Science in Engineering Program suitable as a terminal degree as well as a stepping stone for doctoral level study.

### Related Certificates

- Certificate in Energy Engineering (p. 611)
- Certificate in Ergonomics (p. 653)
- Certificate in Modern Engineering Leadership (p. 654)

## Programs

- Energy Engineering, Graduate Certificate (p. 611)
- Engineering, MS (p. 612)
- Engineering, MS/Urban Planning, MUP (p. 614)
- Engineering, MS: Biomedical Engineering (p. 615)
- Engineering, MS: Civil Engineering (p. 617)
- Engineering, MS: Electrical and Computer Engineering (p. 618)
- Engineering, MS: Energy Engineering (p. 620)
- Engineering, MS: Engineering Management (p. 622)
- Engineering, MS: Engineering Mechanics (p. 623)
- Engineering, MS: Industrial and Systems Engineering (p. 625)
- Engineering, MS: Manufacturing Engineering (p. 627)
- Engineering, MS: Materials Engineering (p. 629)
- Engineering, MS: Mechanical Engineering (p. 630)
- Engineering, MS: Occupational Biomechanics/Ergonomics (p. 632)
- Engineering, PhD (p. 634)
- Engineering, PhD: Biomedical Engineering (p. 636)
- Engineering, PhD: Civil Engineering (p. 639)

- Engineering, PhD: Computer Science (p. 641)
- Engineering, PhD: Electrical Engineering (p. 644)
- Engineering, PhD: Industrial Engineering (p. 646)
- Engineering, PhD: Materials Engineering (p. 648)
- Engineering, PhD: Mechanical Engineering (p. 651)
- Ergonomics, Graduate Certificate (p. 653)
- Modern Engineering Leadership, Graduate Certificate (p. 654)

### Contact Information

#### Office of Student Services

Engineering and Mathematical Sciences Building, E386

## Energy Engineering, Graduate Certificate

With the rapid dwindling of energy resources, there is a great demand for workers in various fields to keep themselves abreast of the latest technology in solving and planning for the energy shortage and efficient use of energy. This interdisciplinary Certificate in Energy Engineering Program is open to post-baccalaureate students who are interested in continuing education for career development or gaining experience in the energy area. In particular, the Program will provide basic knowledge on the design of electrical and mechanical devices and systems and yet has adequate flexibility for students to focus on certain areas in energy according to their own discretion in advanced courses.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students must have a baccalaureate degree. A minimum 2.75 cumulative undergraduate grade point average is required.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

To obtain the certificate, students are required to complete a minimum of 15 credits from the lists of Groups A and B courses of which at least 12 credits must be taken at UWM.

Students must complete at least two courses from Group A to obtain an Energy Engineering Certificate. Additional electives can be chosen from Group B. At least 6 credits must be 700-level or above. A maximum of 3 credits of independent study may be applied toward the certificate.

### Group A Credits

Code	Title	Credits
ELECENG 471	Electric Power Systems	3
ELECENG 572	Power Electronics	3
ELECENG 574	Intermediate Control Systems	3
ELECENG 575	Analysis of Electric Machines and Motor Drives	3
MECHENG 432	Internal Combustion Engines	3
MECHENG 434	Air Conditioning System Design	3
MECHENG 435	Power Plant Theory and Design	3
MECHENG 436	Solar Engineering	3
ELECENG 781	Advanced Synchronous Machinery	3
ELECENG 872	Computer Analysis of Electric Power Systems	3
ELECENG 890	Special Topics: (Advanced Power Electronics)	3
ELECENG 890	Special Topics: (Automotive Power Systems (New Course))	3
ELECENG 890	Special Topics: (Renewable Energy Systems (New Course))	3
ELECENG 999	Advanced Independent Study	1-3
MECHENG 702	Advanced Engineering Thermodynamics	3
MECHENG 703	Principles of Combustion	3
MECHENG 710	Advanced Transport Processes	2
MECHENG 711	Thermal Radiation and Conduction	3
MECHENG 712	Convection Heat and Mass Transfer	3
MECHENG 714	Energy Transport in Microscale Systems	3
MECHENG 721	Fundamentals of Fluid Flow	3
MECHENG 722	Advanced Fluid Mechanics	3
MECHENG 723	Computational Fluid Dynamics and Heat Transfer	3
MECHENG 725	Fluid Power and Turbomachinery	2
MECHENG 999	Advanced Independent Study	1-3

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be transferred from energy-related, graduate-level coursework taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:

- Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
  3. A course may count toward no more than one certificate and one degree.
  4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Engineering, MS

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
	Select a minimum of 12 credits in an approved technical program of studies	12

	Select 9 credits of approved electives	9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
	Select 6 credits of thesis	6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
	Select a minimum of 18 credits in an approved technical program of studies	18
	Select 9 credits of approved electives	9
EAS 701	Effective Academic Writing	1
	Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)	3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
	Select a minimum of 21 credits in an approved technical program of studies	21
	Select 9 credits of approved electives	9
EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a

written description of the topics covered on the exam, including text books and chapters.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, MS/Urban Planning, MUP

In cooperation with the Department of Urban Planning, the College of Engineering and Applied Science offers a Master of Science in Engineering/Master of Urban Planning program to prepare students for positions in transportation, public works or similar areas.

### Cooperating Departments:

Civil Engineering  
Electrical Engineering and Computer Science  
Industrial and Manufacturing Engineering  
Materials  
Mechanical Engineering

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

Students are required to meet the College of Engineering and Applied Science requirements for the Master of Science in Engineering degree as well as the requirements for a Master of Urban Planning degree as set by the Department of Urban Planning. Students in this program are required to take 15 credits in an approved program of technical studies

in the College of Engineering and Applied Science, and 6 credits in nontransportation related engineering approved electives.

Students in the MS/MUP program are required to take 6 credits in the Department of Urban Planning as well as an additional 24 credits of core courses in the Department of Urban Planning. The total credit requirement for the MS/MUP program is 54 credits. Students in the MS/MUP program must also take and pass a comprehensive exam in Urban Planning.

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

Code	Title	Credits
<b>Urban Planning Core Courses</b>		<b>27</b>
URBPLAN 701	Introduction to Land Use Planning	
URBPLAN 702	Introduction to Planning Law	
URBPLAN 711	Planning Theories and Practice	
URBPLAN 720	Urban Development Theory and Planning	
URBPLAN 721	Applied Planning Methods	
URBPLAN 740	Data Analysis Methods I	
URBPLAN 810	Planning Policy Analysis	
URBPLAN 811	Applied Planning Workshop	
URBPLAN 751	Introduction to Urban Design and Physical Planning	
or URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
or URBPLAN 857	Urban Design as Public Policy	
<b>Total Credits</b>		<b>27</b>

Code	Title	Credits
<b>MS Thesis Option</b>		
Urban Planning Credits (See course list above)		27
Civil Engineering Concentration credits (see courses below)		15
Select 6 credits of approved electives		6
Select 3 credits CEAS Graduate Seminar		3
Select 3 credits of thesis		3
<b>Total Credits</b>		<b>54</b>

Code	Title	Credits
<b>Non-Thesis Capstone Option</b>		
Urban Planning Credits (See course list above)		27
Minimum 18 credits approved credits including Civil Engineering Concentration (see courses below)		18
Select 6 credits of approved electives		6
Select 1 credits CEAS Graduate Seminar		1
Select 3 credits of capstone: Capstone course or flexible independent study		3
<b>Total Credits</b>		<b>55</b>

Code	Title	Credits
<b>Non-Thesis Comprehensive Examination Option</b>		
Urban Planning Credits (See course list above)		27
Minimum 21 credits approved credits including Civil Engineering Concentration (see courses below)		21

Select 6 credits of approved electives	6
Select 1 credits CEAS Graduate Seminar	1
<b>Total Credits</b>	<b>55</b>

### Civil Engineering Concentration

A minimum of 15 credits of qualifying graduate courses in Civil Engineering.

#### Qualifying Courses

Code	Title	Credits
Any Civ Eng courses numbered between 701 and 999, excluding 888 and 998.		15
May include up to 3 credits each of:		
CIV ENG 990	Masters Thesis	
CIV ENG 999	Advanced Independent Study	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Degree Requirements

Students in the program will concurrently pursue a Master of Science in Engineering degree and a Master of Urban Planning degree from the School of Architecture and Urban Planning. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree. Candidates seeking admission to the MS/MUP must apply to and be admitted to both programs. The requirements for admission to the Master of Urban Planning degree program are detailed in the Urban Planning section of the Catalog.

### Time Limit

Students in the MS/MUP program are allowed up to five years from time of initial enrollment to complete all requirements for both degrees.

## Engineering, MS: Biomedical Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics

- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
Select a minimum of 12 credits in an approved technical program of studies		12
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
Select 6 credits of thesis		6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)		3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

### Biomedical Engineering Concentration

A minimum of 15 credits of qualifying graduate courses from the list below. May include up to 3 credits each of BME 990 and BME 999. Also, students must take at least 16 credits of engineering courses.

#### Qualifying Courses

Code	Title	Credits
BME 733	Sensors and Systems	3
BME 890	Special Topics:	3
BME 990	Masters Thesis *	1-9
BME 999	Advanced Independent Study *	1-3
COMPSCI/ELECENG 710	Artificial Intelligence	3
ELECENG/MECHENG 701	Advanced Linear System Analysis	3
COMPSCI/ELECENG 711	Introduction to Machine Learning	3
COMPSCI/ELECENG 712	Image Processing	3
ELECENG/MECHENG 718	Nonlinear Control Systems	3
ELECENG 737	Medical Imaging Signals and Systems	3
ELECENG 765	Introduction to Fourier Optics and Optical Signal Processing	3
ELECENG 810	Foundations for Advanced Machine Learning and Signal Processing	3
MECHENG 715	Numerical Methods in Engineering	3
BMS 765	Molecular Pathophysiology	3
OCCTHPY 701	Advanced Measurement and Instrumentation in Health Care	3
PH 702	Introduction to Biostatistics	3
PH 704	Principles and Methods of Epidemiology	3
PH 706	Perspectives on Community & Behavioral Health	3
PH 711	Intermediate Biostatistics	3
PH 712	Probability and Statistical Inference	3
PHYSICS 705	Molecular, Cellular, and System Biophysics	3
PHYSICS 706	Biophotonics	3
PHYSICS 782	Physics of Medical Imaging	3

\* A maximum of 3 credits of BME 990 or 999 may be included.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial



advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, MS: Civil Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's , RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
Select a minimum of 12 credits in an approved technical program of studies		12
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2

Select 6 credits of thesis	6
<b>Total Credits</b>	<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)		3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

### Civil Engineering Concentration

A minimum of 15 credits of qualifying graduate courses in Civil Engineering.

#### Qualifying Courses

Code	Title	Credits
Any Civ Eng courses numbered between 701 and 999, excluding 888 and 998.		15
May include up to 3 credits each of:		
CIV ENG 990	Masters Thesis	
CIV ENG 999	Advanced Independent Study	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, MS: Electrical and Computer Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one.

The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose

between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
Select a minimum of 12 credits in an approved technical program of studies		12
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
Select 6 credits of thesis		6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)		3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9

EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

### Electrical and Computer Engineering Concentration

A minimum of 15 credits of qualifying graduate courses in Electrical Engineering.

#### Qualifying Courses

Code	Title	Credits
Any ElecEng course numbered between 701 and 999, excluding 888 and 998.		
May include up to 3 credits each of:		
ELECENG 990	Masters Thesis	1-9
ELECENG 999	Advanced Independent Study	1-3

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, MS: Energy Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses

offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's , RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
Select a minimum of 12 credits in an approved technical program of studies		12
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
Select 6 credits of thesis		6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)		3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

### Energy Engineering Concentration

A minimum of 15 credits of qualifying graduate courses in Electrical Engineering or Mechanical Engineering.

### Qualifying Courses

Code	Title	Credits
MECHENG 425	Aerodynamics of Wind Turbines	3
MECHENG 432	Internal Combustion Engines	3
MECHENG 434	Air Conditioning System Design	3
MECHENG 435	Power Plant Theory and Design	3
MECHENG 436	Solar Engineering	3
ELECENG 471	Electric Power Systems	3
ELECENG/MECHENG 472	Introduction to Wind Energy	3
ELECENG 572	Power Electronics	3
ELECENG/MECHENG 574	Intermediate Control Systems	3
ELECENG 575	Analysis of Electric Machines and Motor Drives	3
ELECENG/MECHENG 701	Advanced Linear System Analysis	3
MECHENG 702	Advanced Engineering Thermodynamics	3

MECHENG 710	Advanced Transport Processes	2
MECHENG 711	Thermal Radiation and Conduction	3
MECHENG 712	Convection Heat and Mass Transfer	3
ELECENG/MECHENG 718	Nonlinear Control Systems	3
MECHENG 721	Fundamentals of Fluid Flow	3
MECHENG 722	Advanced Fluid Mechanics	3
MECHENG 723	Computational Fluid Dynamics and Heat Transfer	3
MECHENG 725	Fluid Power and Turbomachinery	2
ELECENG/MECHENG 819	Adaptive Control Theory	3

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, MS: Engineering Management

This concentration has been suspended.

This concentration has been suspended.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
Select a minimum of 12 credits in an approved technical program of studies		12
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
Select 6 credits of thesis		6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits,

including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)		3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

### Concentration in Engineering Management

Concentration credits include the following:

Code	Title	Credits
BUSMGMT 715	Leadership, Team Building, and Effective Management	3

IND ENG 716	Engineering Statistical Analysis	3
CIV ENG 891	Advanced Topics in Civil Engineering:	1-3
IND ENG 717	Operations Research in Engineering Management	3
BUS ADM 734	Managing Technological Innovation	3

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, MS: Engineering Mechanics

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)

- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
Select a minimum of 12 credits in an approved technical program of studies		12
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
Select 6 credits of thesis		6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)		3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

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1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

### Engineering Mechanics Concentration

A minimum of 15 graduate credits selected from the following list<sup>1</sup>; may include up to 3 credits each of Civ Eng 990 and Civ Eng 999.

#### Qualifying Courses

Code	Title	Credits
CIV ENG 401	Intermediate Strength of Materials	3
CIV ENG 463	Introduction to Finite Elements	3
CIV ENG 466	Design of Composite Structures	3
CIV ENG 469	Introduction to Biomechanical Engineering	3
CIV ENG 502	Experimental Stress Analysis	3
CIV ENG 580	Engineering Analysis in Applied Mechanics	3
CIV ENG 701	Advanced Strength of Materials	3
CIV ENG 702	Elastic Stability	3
CIV ENG 725	Finite Element Methods in Engineering	3
CIV ENG 726	Mechanical Vibrations	3
CIV ENG 732	Fatigue in Engineering Materials	3
CIV ENG 773	Advanced Dynamics	3
CIV ENG 774	Shock and Vibration Analysis	3
CIV ENG 804	Theory of Plasticity	3
CIV ENG 880	Bioengineering Seminar	1
CIV ENG 990	Masters Thesis	1-9
CIV ENG 999	Advanced Independent Study	1-3

<sup>1</sup> The following course(s) are part of the approved course list, but are currently inactive: CIV ENG 890.

## Additional Requirements

### Major Professor as Advisor

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### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, MS: Industrial and Systems Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

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### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

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## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

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Select 6 credits of thesis		6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
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Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)		3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

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Mastery of the courses taken in the program of study may be demonstrated by one of the following:

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Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

### Industrial and Systems Engineering Concentration

A minimum of 15 credits of qualifying graduate courses in Industrial and Manufacturing Engineering; may include up to 3 credits each of Ind Eng 990 and Ind Eng 999.

### Qualifying Courses

Code	Title	Credits
IND ENG 575	Design of Experiments	3
IND ENG 580	Ergonomics	3
IND ENG 583	Facility Layout and Material Handling	3
IND ENG 716	Engineering Statistical Analysis	3
IND ENG 717	Operations Research in Engineering Management	3

IND ENG 765	Operations Research Methods	3
IND ENG 777	Scheduling and realtime resource management	3
IND ENG 880	Bioengineering Seminar	1
IND ENG 890	Advanced Topics in Industrial and Systems Engineering: *	1-3
IND ENG 990	Masters Thesis	1-9
IND ENG 999	Advanced Independent Study	1-3

\* Qualifying topics: Global Logistics Management; Connected Enterprise; Time Series Analysis & Forecasting; Advanced Mathematical Programming; Advanced Discrete Event Simulation; Operations Research Modeling.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

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### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, MS: Manufacturing Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one.

The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

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Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose

between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
Select a minimum of 12 credits in an approved technical program of studies		12
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
Select 6 credits of thesis		6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)		3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9

EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

### Manufacturing Engineering Concentration

A minimum of 15 credits of qualifying graduate courses in Industrial and Manufacturing Engineering<sup>1</sup>; may include up to 3 credits each of Ind Eng 990 and Ind Eng 999.

#### Qualifying Courses

Code	Title	Credits
IND ENG 550	Control of Automated Manufacturing Systems	3
IND ENG 571	Quality Control	3
IND ENG 575	Design of Experiments	3
IND ENG 582	Ergonomic Job Evaluation Techniques	3
IND ENG 583	Facility Layout and Material Handling	3
IND ENG 587	Lean Production Systems	3
IND ENG 716	Engineering Statistical Analysis	3
IND ENG 751	Flexible Manufacturing Systems	3
IND ENG 880	Bioengineering Seminar	1
IND ENG 890	Advanced Topics in Industrial and Systems Engineering: <sup>*</sup>	1-3
IND ENG 990	Masters Thesis	1-9
IND ENG 999	Advanced Independent Study	1-3

\* Qualifying topics: Sustainable Energy Systems & Industrial Management; Connected Enterprise

<sup>1</sup> The following qualifying course(s) are currently inactive: IND ENG 740.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the

student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, MS: Materials Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's , RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
Select a minimum of 12 credits in an approved technical program of studies		12
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
Select 6 credits of thesis		6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a

final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)		3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

### Materials Engineering Concentration

A minimum of 15 credits of graduate courses in Materials Engineering; may include up to 3 credits of MatEng 990 or 999.

### Qualifying Courses

Code	Title	Credits
MATLENG 701	Properties of Solids	3
MATLENG 702	Advanced Materials Thermodynamics	3
MATLENG 710	Advanced Mechanical Behavior of Materials	3

MATLENG 720	Kinetic Processes in Materials	3
MATLENG 731	Deformation Processing	3
MATLENG 732	Solidification Processing	3
MATLENG 740	Heterogeneous Equilibria	3
MATLENG 750	Thin Solid Films	3
MATLENG 760	Surface Analysis of Solids	3
MATLENG 890	Advanced Topics in Materials:	3
MATLENG 990	Masters Thesis	1-9
MATLENG 999	Advanced Independent Study	1-3

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, MS: Mechanical Engineering

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering

- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional

circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's , RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
Select a minimum of 12 credits in an approved technical program of studies		12
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
Select 6 credits of thesis		6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)		3
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

## Mechanical Engineering Concentration

A minimum of 15 credits of qualifying graduate courses in Mechanical Engineering.

### Qualifying Courses

Code	Title	Credits
Any MechEng Course numbered between 701 and 999, excluding 888 and 998.		
May include up to 3 credits of:		
MECHENG 990	Masters Thesis	1-9
MECHENG 999	Advanced Independent Study	1-3

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

# Engineering, MS: Occupational Biomechanics/Ergonomics

The Master of Science in Engineering program is a flexible program designed to meet the needs of a wide variety of students. The program can be a stepping-stone on the way to further studies and the pursuit of advanced research, such as can be obtained by pursuing the PhD. Or the program can provide a pathway to professional advancement through greater technical knowledge and intellectual maturity. The student, with the help and approval of a major advisor, can choose from a wide range of courses from throughout the College of Engineering and Applied Science (CEAS), and where appropriate, from other schools and colleges.

Students entering the Master of Science in Engineering program must choose an area of concentration, from among the numerous choices offered. It is possible to complete the MS in Engineering without a concentration, but almost all students do complete one. The MS in Engineering program currently offers the following areas of concentration:

- Biomedical Engineering
- Civil Engineering
- Electrical and Computer Engineering
- Energy Engineering
- Engineering Management (admission to this concentration is suspended)
- Engineering Mechanics
- Industrial and Systems Engineering
- Manufacturing Engineering
- Materials Engineering
- Mechanical Engineering
- Occupational Biomechanics/Ergonomics

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. Undergraduate major in engineering, mathematics or a natural science.
2. Submission of official GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores from a test taken within the last 5 years.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.



## Credits and Courses

Minimum degree requirements are 30 credits for the thesis option and 31 credits for the non-thesis option as outlined below. Of the courses offered in the College only those numbered 400 and above may be taken for graduate credit for this degree. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided approval of a program of study including them has been obtained prior to registration in such courses. Typically, no more than three credits of independent study are allowed in the MS Program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Programs Office. A student may not use courses that formed part of the requirements of a baccalaureate degree for subsequent graduate credit, except when those courses were part of CEAS Integrated BS/MS program.

### Thesis and Non-Thesis Options

Students will be required to either the Thesis or Non-Thesis option in their program of study. If the student chooses the Non-Thesis option, then as permitted by the student's department, the student must also choose between two methods of final evaluation: the Capstone Option and the Comprehensive Examination Option.

After 12 credits of coursework are completed, changes from Thesis to Non-Thesis option will not be allowed, except under exceptional circumstances to be considered on a case-by-case basis. Students may always change from a Non-Thesis to a Thesis option. Departments and faculty may make pursuing the Thesis option a requirement (or preference) of employment for TA's, RA's, and PA's.

### Thesis Option

All students are encouraged to undertake the thesis option. The degree requires the following:

Code	Title	Credits
Select a minimum of 12 credits in an approved technical program of studies		12
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
Select 6 credits of thesis		6
<b>Total Credits</b>		<b>30</b>

At least 12 credits, not including thesis or the CEAS Graduate Seminar Course, must be in courses of 700 level or higher. At least 12 credits, including thesis, must be earned at UWM. The thesis may be written in absentia provided prior permission has been obtained from the major professor and the Associate Dean for Academic Affairs in the College of Engineering & Applied Science. Students in the thesis option must pass a final comprehensive examination, administered by the Master's Program Committee, partially in defense of the thesis.

### Non-Thesis Capstone Option

Code	Title	Credits
Select a minimum of 18 credits in an approved technical program of studies		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1

Select 3 credits of a capstone project, using a 3 credit course that allows flexible independent study (either the Independent Study course or a specific capstone course)	3
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**Total Credits 31**

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

For the capstone project, the student must submit a written proposal and receive approval from the advisor. The capstone project should be designed with the intent of leading to creative work based on the student's background, and should be the equivalent of 3 credits of work to be completed over a single semester. Upon completion of the capstone, the student must submit a written report and give an oral presentation of the project to the Master's Program Committee for approval.

### Non-Thesis Comprehensive Examination Option

Code	Title	Credits
Select a minimum of 21 credits in an approved technical program of studies		21
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
<b>Total Credits</b>		<b>31</b>

In addition to the requirements listed in the table above, at least 15 credits must be of 700 level or above.

Mastery of the courses taken in the program of study may be demonstrated by one of the following:

1. The student submits a dossier of work, and passes an oral examination given by the Master's Program Committee. Or
2. The student passes a written master's comprehensive examination when it is offered by the department.

Departments allowing a written examination option will offer such exams at least once per semester, and will announce the date of the exam at least 60 days prior to the exam. The department also must provide a written description of the topics covered on the exam, including text books and chapters.

### Occupational Biomechanics/Ergonomics Concentration

- Students must complete at least 6 credits of qualifying courses from Group A.
- Thesis option students must complete at least 18 credits combined of qualifying courses from Group A and Group B.
- Non-thesis option students must complete at least 24 credits combined from Group A and Group B.
- Students must complete at least 2, but no more than 3 credits, of INDENG 880.
- Any remaining credits in the MS in Engineering program of study may be taken as free electives.

### Qualifying Courses

Code	Title	Credits
<b>Group A</b>		
IND ENG 580	Ergonomics	3
IND ENG 590/890	Topics in Industrial and Systems Engineering:	1-3
OCCTHPY 625	Design and Disability	3

**Group B**

IND ENG 880	Bioengineering Seminar	1
IND ENG 575	Design of Experiments	3
IND ENG 582	Ergonomic Job Evaluation Techniques	3
KIN 520	Introduction to Biomechanics Research	3
IND ENG 780	Advanced Ergonomics - Low Back Pain	3
IND ENG 783	Advanced Ergonomics - Upper Extremity	3
IND ENG 716	Engineering Statistical Analysis	3
IND ENG 890	Advanced Topics in Industrial and Systems Engineering: *	1-3
MATLENG 710	Advanced Mechanical Behavior of Materials	3
PH 711	Intermediate Biostatistics	3
PH 759	Intro to Regression for Understanding the SDOH	3
PH 777	Quantitative Research Methods for Public Health Policy	3
KIN 720	Advanced Biomechanics Research	3
KIN 725	Interdisciplinary Themes in Biomechanics	3

\* Qualifying Topics: Human Factors, Instrument in Ergonomics & Biomechanics, Connected Enterprise

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student have a major professor to advise, supervise, and approve the Program of Study before registering for courses. The College will assign the incoming student to an initial advisor at the time of admission. A student may change advisors with the consent of the new advisor, approval by the Associate Dean for Academic Affairs, and upon notification of the student's current advisor.

### Program of Study

During the first semester the student, in consultation with the major professor, develops a program of study, obtains the consent of the advisor and submits it to the CEAS Graduate Programs Office for approval by the Associate Dean. To make subsequent changes, the student must follow the same process. Graduation requires successful completion of courses from an approved program of study. Students are recommended to obtain approval for an amended program of study before taking a course not on the current program of study.

### Master's Program Committee

The Master's Program Committee is proposed by the major professor in consultation with the student. The Committee must include at least three graduate faculty, not all of whom are in the same department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Engineering, PhD

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the

subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
  - a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
  - b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation

must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.
3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.
4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.
5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (<http://www.uwm.edu/Dept/CIE/>)
6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

### Reapplication

A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

## Credits and Courses

The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

Code	Title	Credits
Select 21 credits in the major area of concentration		21
Select 9 credits in an approved minor area		9
Select 6 credits in mathematics and/or quantitative methods		6
Select 18 credits of doctoral thesis		18
Select 9 credits of approved electives		9
EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
<b>Total Credits</b>		<b>66</b>

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major or the minor area, the remaining credits may be taken as approved electives.

The student must achieve a 3.0 GPA separately in each of the following areas: the major area, the minor area, and the quantitative methods area.

The major area of concentration must be in one of the seven areas approved for the PhD degree in the College. These areas are:

- Biomedical Engineering
- Civil Engineering
- Computer Science

- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

The minor is normally in another area offered in the College or in the physical sciences or mathematics or in management sciences. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 26 credits, excluding doctoral thesis, must be at the 700 level or higher.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

### Foreign Language

There is no foreign language requirement for the degree.

### Residence

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

### Qualifying Examination

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master's degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

- If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
- If the student fails both parts, then the student must take the entire exam again at its next offering.
- If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.
- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

### Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.

### Doctoral Preliminary Examination

A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward

the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

### Dissertation and Dissertator Status

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student's advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

### Dissertation Defense

The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>).

## Engineering, PhD: Biomedical Engineering

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering

- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

## Admission Requirements

### Application Deadlines

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6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

### Reapplication

A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

## Credits and Courses

The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

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EAS 701	Effective Academic Writing	1
EAS 702	Preparing Future Engineering Faculty & Professionals	2
<b>Total Credits</b>		<b>66</b>

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major or the minor area, the remaining credits may be taken as approved electives.

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The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

## Biomedical Engineering Concentration

Students will complete:

- A minimum of 15 credits of graduate courses from the following list and any new graduate courses that Biomedical Engineering Program introduces in the future with BME coding; and
- At least 18 credits of doctoral thesis (BME 998).

Only one credit of BME 999 will be counted towards this requirement.

Code	Title	Credits
<b>Qualifying Courses</b>		<b>15</b>
BME 705	Rehabilitation Robotics	
BME 720	Machine Perception	
BME 733	Sensors and Systems	
BME 890	Special Topics:	
BME 999	Advanced Independent Study	
COMPSCI/ELECENG 710	Artificial Intelligence	
COMPSCI/ELECENG 711	Introduction to Machine Learning	
COMPSCI/ELECENG 712	Image Processing	
ELECENG/MECHENG 701	Advanced Linear System Analysis	
ELECENG/MECHENG 718	Nonlinear Control Systems	
ELECENG 737	Medical Imaging Signals and Systems	
ELECENG 765	Introduction to Fourier Optics and Optical Signal Processing	
ELECENG 810	Foundations for Advanced Machine Learning and Signal Processing	
MECHENG 715	Numerical Methods in Engineering	
<b>Doctoral Thesis</b>		<b>18</b>
BME 998	Doctoral Thesis	

## Additional Requirements

### Major Professor as Advisor

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### Foreign Language

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qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

### Doctoral Program Committee

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### Dissertation Defense

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### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>).

## Engineering, PhD: Civil Engineering

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

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  - a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.

- b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.
2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.
  3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.
  4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.
  5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (<http://www.uwm.edu/Dept/CIE/>)
  6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

### Reapplication

A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

## Credits and Courses

The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

Code	Title	Credits
Select 21 credits in the major area of concentration		21
Select 9 credits in an approved minor area		9
Select 6 credits in mathematics and/or quantitative methods		6
Select 9 credits of approved electives		9
<b>Select 3 credits of:</b>		<b>3</b>
CIV ENG 700	CEAS Graduate Seminar	
<b>Select 18 credits of:</b>		<b>18</b>
CIV ENG 998	Doctoral Thesis	
<b>Total Credits</b>		<b>66</b>

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the

GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Civil Engineering major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Civil Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

### Foreign Language

There is no foreign language requirement for the degree.

### Residence

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

### Qualifying Examination

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.



Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

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A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

### Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.

### Doctoral Preliminary Examination

A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward

the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

### Dissertation and Dissertator Status

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student's advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

### Dissertation Defense

The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>).

## Engineering, PhD: Computer Science

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
  - a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
  - b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.
2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.
3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.
4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.

5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (<http://www.uwm.edu/Dept/CIE/>)
6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

### Reapplication

A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

## Credits and Courses

The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

Code	Title	Credits
Select 21 credits in the major area of concentration		21
Select 9 credits in an approved minor area		9
Select 6 credits in mathematics and/or quantitative methods		6
Select 9 credits of approved electives		9
<b>Complete 3 credits of:</b>		<b>3</b>
COMPSCI 700	CEAS Graduate Seminar	
<b>Complete 18 credits of:</b>		<b>18</b>
COMPSCI 998	Doctoral Thesis	
<b>Total Credits</b>		<b>66</b>

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Computer Science major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Computer Science major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program.

Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

### Foreign Language

There is no foreign language requirement for the degree.

### Residence

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

### Qualifying Examination

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master's degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

- If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
- If the student fails both parts, then the student must take the entire exam again at its next offering.
- If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.

- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

### Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.

### Doctoral Preliminary Examination

A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

### Dissertation and Dissertator Status

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student's advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must

continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

### Dissertation Defense

The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>).

## Engineering, PhD: Electrical Engineering

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
  - a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
  - b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.
2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.
3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.
4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.
5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (<http://www.uwm.edu/Dept/CIE/>)
6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

### Reapplication

A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

## Credits and Courses

The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

Code	Title	Credits
Select 21 credits in the major area of concentration		21
Select 9 credits in an approved minor area		9

Select 6 credits in mathematics and/or quantitative methods	6
Select 9 credits of approved electives	9
<b>Select 3 credits of:</b>	<b>3</b>
ELECENG 700      CEAS Graduate Seminar	
<b>Select 18 credits of:</b>	<b>18</b>
ELECENG 998      Doctoral Thesis	
<b>Total Credits</b>	<b>66</b>

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Electrical Engineering major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Electrical Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

### Foreign Language

There is no foreign language requirement for the degree.

## Residence

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

## Qualifying Examination

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master's degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

- If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
- If the student fails both parts, then the student must take the entire exam again at its next offering.
- If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.
- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

### Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.

### Doctoral Preliminary Examination

A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

### Dissertation and Dissertator Status

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student's advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

### Dissertation Defense

The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>).

## Engineering, PhD: Industrial Engineering

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD)

program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
  - a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
  - b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232.

Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.
3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.
4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.
5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (<http://www.uwm.edu/Dept/CIE/>)
6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

### Reapplication

A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

## Credits and Courses

The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

Code	Title	Credits
Select 21 credits in the major area of concentration		21
Select 9 credits in an approved minor area		9
Select 6 credits in mathematics and/or quantitative methods		6
Select 9 credits of approved electives		9
<b>Select 3 credits of:</b>		<b>3</b>
IND ENG 700	CEAS Graduate Seminar	
<b>Select 18 credits of:</b>		<b>18</b>
IND ENG 998	Doctoral Thesis	
<b>Total Credits</b>		<b>66</b>

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Industrial Engineering major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Industrial Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business

management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

### Foreign Language

There is no foreign language requirement for the degree.

### Residence

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

### Qualifying Examination

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master's degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

- If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
- If the student fails both parts, then the student must take the entire exam again at its next offering.
- If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.
- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

### Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.

### Doctoral Preliminary Examination

A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

### Dissertation and Dissertator Status

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to

produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student's advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

### Dissertation Defense

The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>).

## Engineering, PhD: Materials Engineering

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.



The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
  - a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
  - b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.
2. A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.
3. All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.
4. The Graduate Record Examination (GRE) is required for all international and domestic applicants.
5. International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (<http://www.uwm.edu/Dept/CIE/>)
6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

### Reapplication

A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

## Credits and Courses

The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

Code	Title	Credits
Select 21 credits in the major area of concentration		21
Select 9 credits in an approved minor area		9
Select 6 credits in mathematics and/or quantitative methods		6
Select 9 credits of approved electives		9
<b>Select 3 credits of:</b>		<b>3</b>
MATLENG 700	CEAS Graduate Seminar	
<b>Select 18 credits of:</b>		<b>18</b>
MATLENG 998	Doctoral Thesis	
<b>Total Credits</b>		<b>66</b>

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Materials Engineering major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Materials Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

### Foreign Language

There is no foreign language requirement for the degree.

### Residence

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

### Qualifying Examination

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master's degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

A student may take the Qualifying Examination twice. On the first attempt, the student must attempt both Part 1 and Part 2 of the examination.

- If the student passes both parts, then the student has passed the entire examination and will be permitted to proceed toward the Doctor of Philosophy degree.
- If the student fails both parts, then the student must take the entire exam again at its next offering.
- If a student passes only one of the two parts, then the student must take the examination again at its next offering, but may choose to take only the part of the examination that was not passed on the first attempt.
- If a passing grade is not obtained on the second attempt of the Qualifying Examination, the student will not be permitted to proceed toward the Doctor of Philosophy degree.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the

qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

### Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.

### Doctoral Preliminary Examination

A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

### Dissertation and Dissertator Status

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

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### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>).

## Engineering, PhD: Mechanical Engineering

The Doctor of Philosophy, the highest degree offered by the University, is conferred in recognition of marked scholarship in a broad field of knowledge as well as distinguished critical or creative achievement within a special area of the general field (the special area being the subject of the doctoral dissertation). The Doctor of Philosophy (PhD) program in the College of Engineering and Applied Science (CEAS) is designed to meet the traditional high standards for such programs. The PhD in Engineering is administered by the CEAS Graduate Program Subcommittee (GPSC). Some aspects of the program are delegated to the CEAS Graduate Office and to the various departments of the College.

There are six major areas in the PhD program:

- Biomedical Engineering
- Civil Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Materials Engineering
- Mechanical Engineering

Each major is flexible, allowing the student to develop a plan of studies tailored to meet individual needs. Evaluation of the study plan is based on its appropriateness as an engineering or computer science program, the availability within the University of appropriate course offerings, and the availability within the College of a faculty member who is qualified to serve as the student's major professor.

The PhD degree requires a minimum of 66 credits beyond the baccalaureate, including a dissertation. The student must also satisfy a residence requirement.

Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
  - a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
  - b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.
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6. Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.

### Reapplication

A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

## Credits and Courses

The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows depending on the option selected.

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Select 6 credits in mathematics and/or quantitative methods		6
Select 9 credits of approved electives		9
<b>Select 3 credits of:</b>		<b>3</b>
MECHENG 700	CEAS Graduate Seminar	
<b>Select 18 credits of:</b>		<b>18</b>

MECHENG 998

Doctoral Thesis

**Total Credits****66**

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The Mechanical Engineering major area of concentration is one of the seven major areas of the PhD in Engineering. The student must achieve a 3.0 GPA separately in each of the following areas: the Mechanical Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the GPSC.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

### Foreign Language

There is no foreign language requirement for the degree.

### Residence

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

## Qualifying Examination

Each student in the program must take and pass a Qualifying Examination to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written exam and is structured in two parts: Part 1 and Part 2. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 12 credits of graduate work at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM.

Students admitted after completing an appropriate master's degree must take this examination no later than the semester immediately after 18 credits of graduate work have been earned at UWM.

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A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

## Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The

Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.

### Doctoral Preliminary Examination

A student is admitted to candidacy only after successful completion of the doctoral preliminary examination conducted by the Doctoral Program Committee. This examination, which normally is oral, must be taken before the completion of 48 credits of graduate work toward the Doctor of Philosophy degree in Engineering and should be taken within the first seven years in the program. Prior to the examination, the student must present a proposal for a doctoral dissertation project. The examination may cover both graduate course material and items related to the proposed dissertation project.

### Dissertation and Dissertator Status

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Doctoral Preliminary Examination and prior approval of the student's advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

### Dissertation Defense

The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>).

## Ergonomics, Graduate Certificate

*The Certificate in Ergonomics is being revised; admission to the program is temporarily suspended.*

The Certificate in Ergonomics program is designed to provide a formal program of study for students who wish to pursue careers in ergonomics in industry, government, or academia.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students wishing to earn the certificate must be enrolled in a UWM master's or doctoral degree program in any department or be admitted as UWM non-degree graduate students (see below).

Graduate non-degree applicants can be admitted to CEAS provided they meet one of the following requirements:

- A bachelor's or higher degree with a GPA of 2.75 or better in engineering, medicine, industrial hygiene, safety, physical therapy, occupational therapy, nursing, educational psychology, human kinetics.
- A bachelor's or higher degree with a GPA of 2.75 or better with evidence of at least one year of experience in ergonomics and/or occupational health and safety related area.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Students must complete the required 15 credit hours with a GPA of 3.0 or better from the following group of courses:

Code	Title	Credits
IND ENG 790	Design Project	2-3
IND ENG 580	Ergonomics	3
IND ENG 780	Advanced Ergonomics - Low Back Pain	3
IND ENG 783	Advanced Ergonomics - Upper Extremity	3
IND ENG 786		3

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Modern Engineering Leadership, Graduate Certificate

The Graduate Certificate in Modern Engineering Leadership is designed to help engineering and computer science professionals gain the skills and knowledge to become leaders in their organizations. It builds on prior training in engineering and computing with required courses in management of people and projects and in data analytics (multivariate statistics and machine learning). The program's underlying philosophy is that *modern* engineering leadership is both about leading people and about making decisions based on data. Certificate students also take an elective course in a technical topic of their choosing.

The Graduate Certificate in Modern Engineering Leadership is a fully online program in order to provide convenient access to working professionals.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The minimum GPA for admission is 2.75 in the prior bachelor's or post-baccalaureate degree. Applicants should generally have a prior degree

in engineering or computer science. Applicants with other prior degrees will be considered via holistic assessment of the academic record and professional experience, with a focus on substantial work experience in the engineering or computing fields and on adequate mathematics preparation for the required coursework.

## Credits and Courses

Code	Title	Credits
<b>Required Courses</b>		
EAS 710	Managing Human Resources and Teams	3
IND ENG 890	Advanced Topics in Industrial and Systems Engineering:	3
IND ENG 716	Engineering Statistical Analysis	3
COMPSCI 411G	Machine Learning and Applications	3
<b>Electives</b>		
Electives may be taken in any topic taught by the College of Engineering and Applied Science.		3
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Industrial and Manufacturing Engineering

Industrial and manufacturing engineers are concerned with the design, improvement, installation, and operation of integrated systems of people, material, information, and energy for the development of environmentally sound and globally competitive enterprises.

Industrial/manufacturing engineers are needed in industries ranging from medical products and equipment manufacturing to automotive and electronic components manufacturing. Their skills benefit organizations such as hospitals, banks, airlines, telecommunications companies, and more. Some activities of an industrial/manufacturing engineer include: methods improvement; plant layout; integration of automation components (CAD and CAM); logistics; supply chain management; economic analysis; optimization of resources; quality control; reliability analysis; and ergonomics, i.e., design of workplaces, equipment, and tools for maximum productivity and employee comfort and safety.

In manufacturing companies, industrial/manufacturing engineers may be responsible for production and inventory control, quality control, plant layout, and work station design, and may lead the effort for the introduction of new technologies and other advancements. In service organizations these engineers may develop methods for optimal utilization of resources, such as doctors, nurses, and medical equipment in a hospital; determine the optimal number of communication lines and service level for a telephone company; participate in the development of a total quality management system for a bank, etc.

## Mission Statement

The mission of the department is to provide a broad-based education in industrial and manufacturing engineering and to prepare students for a diversified career in industry, academia, government, and private sectors.

## Programs

- Connected Systems Engineering, MS (p. 655)
- Industrial Engineering, BSE (p. 657)
- Industrial Engineering, Minor (p. 660)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Madiha Ahmed	Lecturer	MS	University of Wisconsin-Milwaukee		
Tsong-How Chang	Associate Professor	PhD			✓
Jaejin Jang	Associate Professor	PhD	Purdue University	✓	
Edward W. Knoblock	Associate Professor	MS			✓
Wilkistar Otieno	Associate Professor	PhD	University of South Florida	✓	
Timothy Patrick	Associate Professor	PhD	University of Missouri-Columbia		✓
Matthew Petering	Associate Professor	PhD	University of Michigan	✓	
Brett Peters	Professor	PhD	Georgia Institute of Technology, Dean of CEAS	✓	
Umesh K. Saxena	Professor	PhD, PE			✓
Hamid K. Seifodini	Associate Professor	PhD	Oklahoma State University	✓	

## Connected Systems Engineering, MS

The MS program in Connected Systems Engineering is a 31-credit Capstone-based program which is offered by the Industrial and Manufacturing Engineering Department in the College of Engineering and Applied Sciences, in collaboration with UWM's Connected Systems Institute (CSI) and the Lubar School of Business. This program, the first of its kind in the state of Wisconsin, is designed for graduates with at least a bachelor's degree in engineering and related fields, to reskill or upskill, and gain key knowledge that is necessary for current and future jobs in the manufacturing and service industries. The program entails courses in Industrial Internet of Things (IIoT), data acquisition and data analytics, machine learning and artificial intelligence (AI), robotics/ automation and digital twins as well as the sustainability in technological advances, taking ethical and social ramifications. A unique aspect of this program is that the majority of the hands-on-experiential learning will take place in the state-of-the-art manufacturing testbeds and software that are available in the CSI. The technical elective courses will lead concentrations in industrial engineering, manufacturing engineering, enterprise resource planning, digital supply chain management,

mechatronics and robotics, artificial intelligence and machine learning, and cybersecurity.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admissions Eligibility Requirements

Applicants must meet UWM's Graduate School's mandated admissions requirements (<https://uwm.edu/graduateschool/students/admission/>). In addition:

1. Applicants should have a baccalaureate degree in engineering or related fields (mathematics, data science, statistics or a natural science) from an accredited college or university.

2. Applications will be reviewed by the Industrial and Manufacturing Engineering Department Faculty Committee to assess academic achievement and ability to do intensive graduate-level work.

## Credits and Courses

The program consists of 18 credits of required core courses, 3 credits of the capstone completion course, 1 credit of writing effectiveness and 9 credits of elective courses from a one or a mix of several focus areas as follows:

Code	Title	Credits
<b>Academic degree program or major course requirements (22 Credits)</b>		
IND ENG 540G	Foundations of Systems Engineering	3
IND ENG 555	Manufacturing Systems Integration	3
IND ENG 715	Data Acquisition and Visualization for Decision Making	3
IND ENG 716	Engineering Statistical Analysis	3
IND ENG 741	Foundational Technologies for Connected Systems	1
IND ENG 742	Cloud Architecture for Connected Systems	1
IND ENG 999	Advanced Independent Study	3
BUS ADM 788	Tracking and Tracing	1
BUS ADM 811	Process and Work-Flow Management	3
EAS 701	Effective Academic Writing	1
<b>Technical Electives (Pick 9 credits from one or a mix of the following focus areas)</b>		<b>9</b>
<i>Industrial Engineering Focus</i>		
IND ENG 455G	Operations Research I	
IND ENG 465G	Operations Research II	
IND ENG 475G	Simulation Methodology	
IND ENG 571G	Quality Control	
IND ENG 575G	Design of Experiments	
IND ENG 717	Operations Research in Engineering Management	
IND ENG 765	Operations Research Methods	
IND ENG 777	Scheduling and realtime resource management	
IND ENG 890	Advanced Topics in Industrial and Systems Engineering: <sup>1</sup>	
<i>Manufacturing Engineering Focus</i>		
IND ENG 550G	Control of Automated Manufacturing Systems	
IND ENG 572G	Reliability Engineering	
IND ENG 587G	Lean Production Systems	
IND ENG 751	Flexible Manufacturing Systems	
IND ENG 890	Advanced Topics in Industrial and Systems Engineering: <sup>1</sup>	
<i>Enterprise Resource Planning Focus</i>		
BUSMGMT 733	Enterprise Simulation Game	
BUS ADM 781	Enabling Supply Chains Using SAP	
BUS ADM 816	Business Intelligence Technologies & Solutions	

BUS ADM 818	Information Systems Practicum
<i>Digital Supply Chain Management Focus</i>	
BUS ADM 782	Supply Chain Technology and Simulation
BUS ADM 783	Modeling and Analytics in Supply Chains
BUS ADM 787	Managing Connected Supply Chains
BUS ADM 789	Service Operations Management
IND ENG 890	Advanced Topics in Industrial and Systems Engineering: <sup>1</sup>
<i>Mechatronics/Robotics/Digital Twin Focus</i>	
MECHENG 476G	Introduction to Robotics
MECHENG 479G	Advanced Mechatronics
MECHENG 733	Sensors and Systems
COMPSCI 725	Robot Motion Planning
COMPSCI 746	
IND ENG 890	Advanced Topics in Industrial and Systems Engineering: <sup>1</sup>
<i>AI/Machine Learning Focus</i>	
COMPSCI 425G	Introduction to Data Mining
COMPSCI 710	Artificial Intelligence
COMPSCI 711	Introduction to Machine Learning
COMPSCI 715	Programming for Machine Learning
INFOST 582G	Introduction to Data Science
<i>Cybersecurity Focus</i>	
COMPSCI 469G	Introduction to Computer Security
INFOST 583G	Survey of Information Security
INFOST 695G	Ethical Hacking I
INFOST 696G	Ethical Hacking II
INFOST 784	Information Security Management
IND ENG 890	Advanced Topics in Industrial and Systems Engineering: <sup>1</sup>
<b>Total Credits</b>	<b>31</b>

<sup>1</sup> Qualifying topics include Global Supply Chain and Sustainable Technologies: Social and Ethical Impacts.

## Additional Requirements

### Major Professor as Advisor

The student is assigned an initial faculty advisor at the time of admission. The student selects a faculty member as their capstone advisor after consultation with that faculty member. Any change in faculty advisor requires the documented permission of the new faculty member and their department. An initial Program of Study with student, advisor and department approval should be completed prior to the completion of 9 credits in the program. The final Program of Study must be approved by the initial advisor or capstone advisor as appropriate.

### Financial Aid

Students enrolled in this program are not eligible for financial aid from the Industrial and Manufacturing Engineering department including research assistantships, teaching assistantships, project assistantships, fellowships and/or tuition waivers. However, such students are still eligible for financial aid available elsewhere on the campus.



## Time Limit

All students must complete the degree requirements within five years of initial enrollment. A student requiring more time must submit a request for exemption to the graduate school.

## Industrial Engineering, BSE

Industrial & Manufacturing Engineering is an operations and optimization science, focused on productivity, quality and continuous improvement of all business operations from acquisition of raw materials/resources to delivery of finished products/services to customers.

Industrial & Manufacturing Engineering is among the most far-reaching disciplines of engineering. Industrial and Manufacturing Engineers work in diverse industries within both the public and private sectors. Because of the flexibility and value of industrial engineering skills, employment opportunities are numerous and diverse.

## Accreditation

The Industrial Engineering program is accredited by the Engineering Accreditation Commission of ABET: <https://www.abet.org> (<https://tinyurl.com/u7fsfevw/>).

## New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

## Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies.

The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

## Industrial Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in industrial engineering is 120.

Code	Title	Credits
<b>Engineering Core - 24 Credits</b>		
CIV ENG 203	Introduction to Solid Mechanics <sup>1</sup>	4
EAS 200	Professional Seminar	1
COMPSCI 202	Introductory Programming Using Python <sup>2</sup>	3
ELECENG 301	Electrical Circuits I	3
IND ENG 111	Introduction to Engineering <sup>3</sup>	3
IND ENG 112	Engineering Drawing & Computer Aided Design/Drafting <sup>3</sup>	3
IND ENG 360	Engineering Economic Analysis	3
MATLENG 201	Engineering Materials	4
<b>Major Requirements - 36 credits</b>		
IND ENG 350	Manufacturing Processes	3
IND ENG 367	Introductory Statistics for Physical Sciences and Engineering Students	3
IND ENG 370	Introduction to Operations Analysis	3
IND ENG 455	Operations Research I	3
IND ENG 465	Operations Research II	3
IND ENG 470	Methods Engineering	3
IND ENG 475	Simulation Methodology	3
IND ENG 485	Senior Design Project	3
IND ENG 571	Quality Control	3
IND ENG 575	Design of Experiments	3
IND ENG 580	Ergonomics	3
IND ENG 583	Facility Layout and Material Handling	3
<b>Mathematics Requirement - 16 credits <sup>4</sup></b>		
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
ELECENG 234	Analytical Methods in Engineering <sup>5</sup>	4
<b>Natural Science Requirement - 13 credits</b>		
CHEM 102 or CHEM 105	General Chemistry General Chemistry for Engineering	5
PHYSICS 209 & PHYSICS 210	Physics I (Calculus Treatment) and Physics II (Calculus Treatment)	8
<b>Technical Electives - 9 credits <sup>6</sup></b>		
Select 9 credits from approved technical electives list below. At least 6 credits must be in courses from IND ENG. All non-required IND ENG courses numbered between 400 and 699 are approved technical electives.		
BUS ADM 370	Introduction to Supply Chain Management	
EAS 1	Engineering Co-op Work Period	
EAS 497	Study Abroad:	
IND ENG 390	Senior Thesis	
IND ENG 550	Control of Automated Manufacturing Systems	
IND ENG 572	Reliability Engineering	
IND ENG 582	Ergonomic Job Evaluation Techniques	

IND ENG 587	Lean Production Systems	
IND ENG 590	Topics in Industrial and Systems Engineering:	
IND ENG 699	Independent Study	
<b>GER Distribution Requirement - 15 credits</b>		
Arts		3
Humanities		3
Social Science		6
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3
Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement		
Students must also satisfy Oral and Written Communication (OWC) Part A <sup>7</sup>		0-6
Students must also satisfy the UWM Foreign Language Requirement <sup>7</sup>		0-8
<b>Free Electives - 7 credits</b>		<b>7</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> CIV ENG 201 or CIV ENG 202 may substitute for CIV ENG 203 for transferring students.

<sup>2</sup> COMPSCI 151, COMPSCI 240, COMPSCI 250, or MECHENG 101 may substitute for COMPSCI 202 for transferring students.

<sup>3</sup> MECHENG 110 and MECHENG 111 may substitute for IND ENG 111 and IND ENG 112 for transferring students.

<sup>4</sup> MATH 221 and MATH 222 may substitute for MATH 231, MATH 232, and MATH 233.

<sup>5</sup> MATH 234 may substitute for ELECENG 234 for transferring students.

<sup>6</sup> EAS 1 is open only to students who earn 3 or more credits. EAS 497 may be taken up to 6 credits.

<sup>7</sup> See General Education Requirements (p. 30) for details.

## Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

## Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

## Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

## Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a

program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

## Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation.

Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

## Honors in the Major

Students in Industrial Engineering who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all upper-division (300 level and higher) IND ENG courses;
3. At least one of the following:
  - a. Participation in the Accelerated MS program with successful completion of 6 credits in IND ENG approved courses.
  - b. Successful completion of 3 credits of faculty supervised research (IND ENG 699).
  - c. A- grade or better in IND ENG 485.

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Joint Programs with Other Campuses

### Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

### Dual Degree Programs

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

## Joint Programs with Wisconsin Technical Colleges

### Gateway Technical College

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

### Milwaukee Area Technical College

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent

coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

### Waukesha County Technical College

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

## Industrial Engineering, Minor

The minor in industrial and manufacturing engineering is ideally suited for:

- Business majors interested in strengthening their background in quantitative production operations management
- Computer Science majors interested in advanced optimization techniques
- Mechanical Engineering majors interested in development and implementation of integrated manufacturing systems
- Civil Engineering majors focusing on transportation where advanced optimization techniques may be useful

### Requirements - 21 Credits

The program of study to obtain the minor in industrial and manufacturing engineering consists of four required courses and three elective courses.

Code	Title	Credits
<b>Required Courses:</b>		
IND ENG 360	Engineering Economic Analysis	3
IND ENG 367	Introductory Statistics for Physical Sciences and Engineering Students	3
IND ENG 455	Operations Research I	3
IND ENG 470	Methods Engineering	3
<b>Elective Courses</b>		
IND ENG 350	Manufacturing Processes	3
IND ENG 370	Introduction to Operations Analysis	3
IND ENG 465	Operations Research II	3
IND ENG 475	Simulation Methodology	3
IND ENG 571	Quality Control	3
IND ENG 572	Reliability Engineering	3
IND ENG 580	Ergonomics	3
IND ENG 583	Facility Layout and Material Handling	3

If you are interested in an Industrial and Manufacturing Engineering minor, contact Student Services at [ceas-adv@uwm.edu](mailto:ceas-adv@uwm.edu) or (414) 229-4667. Student Services is located in the EMS building, Room E386.

## Integrated BS-MS Degree

### Requirements

#### Admission

An Integrated BS-MS program is available for exceptional undergraduate students. In this program, students take 6 graduate credits while completing the BS degree.

Minimum admission requirements:

- 3.2 GPA.
- 36 credits or less remaining for the BS.
- Approval from their major department.

### Application Process

- In consultation with their major professor, students must complete an Integrated BS/MS Program of Study Form. Students must indicate on the form which 6 graduate-level credits are being taken while completing the BS degree. Engineering students must have the form approved by the CEAS Office of Graduate Programs and Research. Computer Science students must have the form approved by the Graduate Program Representative for the CompSci MS Program. Students must have their Program of Study approved prior to the start of the final undergraduate semester and before starting graduate courses.
- Students must apply to the Graduate School. The MS degree requirements must be completed within five years of completion of the BS degree. Students in the Integrated Program are not required to take the GRE exam for admission to the Graduate School.

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Program of Study

Advanced standing will be granted to Integrated BS-MS students who have successfully completed six credits of pre-approved coursework at the graduate level with a grade of B or better. If a course has U/G status, the student must follow the syllabus and grading scale designated for graduate students. Once admitted to the Graduate School, students in the Integrated Program must meet the requirements listed in the following tables:

### Master of Science in Engineering

#### Thesis

- 24 course credits completed after admission to graduate status. Requires 3-credit Graduate Seminar course.
- 6 thesis credits
- Total 30 credits

#### Non-Thesis

- 31 course credits completed after admission to graduate status. Requires 1-credit Graduate Seminar course.
- Total 31 credits

## Master of Science in Computer Science

### Thesis

Code	Title	Credits
COMPSCI 700	CEAS Graduate Seminar	3
COMPSCI 704	Analysis of Algorithms	3
Select 12 additional credits of 700 or higher-level courses		12
Select 6 credits of additional courses that carry graduate credit		6
COMPSCI 990	Masters Thesis	6
<b>Total Credits</b>		<b>30</b>

### Non-Thesis 1

Code	Title	Credits
COMPSCI 700	CEAS Graduate Seminar	1
COMPSCI 704	Analysis of Algorithms	3
Select 15 additional credits of 700 or higher-level courses		15
Select 9 credits of additional courses that carry graduate credit		9
COMPSCI 995	Master's Capstone Project	3
<b>Total Credits</b>		<b>31</b>

The following is a common requirement for both options: The students must have taken six Computer Science courses (specified below) or their equivalent prior to completion of the MS Program.

Appropriate courses satisfy the common requirement with the approval of the department.

#### The six courses are:

Code	Title	Credits
COMPSCI 315	Introduction to Computer Organization and Assembly Language Programming	3
COMPSCI 317	Discrete Information Structures	3
COMPSCI 458	Computer Architecture	3
COMPSCI 535	Algorithm Design and Analysis	3
Select two of the following:		6
COMPSCI 417	Introduction to the Theory of Computation	
COMPSCI 431	Programming Languages Concepts	
COMPSCI 536	Software Engineering	
COMPSCI 537	Introduction to Operating Systems	
<b>Total Credits</b>		<b>18</b>

At most six credits of the above courses with UG credit may be used to satisfy the courses requirements of the two options.

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Nidal Abu-Zahra	Associate Professor, Chair	PhD	Cleveland State University	✓	
George S. Baker	Professor	PhD			✓
Benjamin Church	Associate Professor	PhD	Georgia Institute of Technology	✓	
Hugo F. Lopez	Professor	PhD	Ohio State University	✓	
Xiaoli Ma	Assistant Professor	PhD	Arizona State University	✓	
Joachim P. Neumann	Professor	PhD			✓
Junjie Niu	Assistant Professor	PhD	Zhejiang University	✓	

In the thesis option, the student must register for thesis credits (COMPSCI 990) in at least two semesters.

## Time Limit

The MS degree requirements must be completed within five years of the first enrollment in the Integrated Program.

## Graduation

Students who withdraw from the Integrated Program may continue in the BS program and be awarded the bachelor's degree.

## Materials Engineering

In today's world there is a constant demand for new materials of superior quality or with particular combinations of properties. It is the task of the materials engineer to use chemical and physical processes to provide new materials, more useful and valuable products, and improvements in the properties of existing materials on a cost-effective basis.

Materials engineering, like other branches of engineering, is based on mathematics, physics, and chemistry.

Necessarily, the engineer must work with every type of material, whether it be metal, glass, plastic, or naturally occurring rock or wood; and electrical conductors, semiconductors, or insulators, transparent or otherwise. The variety of available materials is as wide as the applications; to use them to good effect, the engineer must understand the nature of the substances that might be used for a particular purpose and the chemical and physical processes that are involved in their production.

Being in a central position in the development and design of new products, the materials engineer has excellent and varied career opportunities, extending from fundamental research through primary production processes and subsequent manufacturing to quality control and failure analysis.

## Mission Statement

The Materials Department is committed to provide comprehensive undergraduate and graduate education in Materials Engineering, outstanding research, and service to our students, College, the University of Wisconsin-Milwaukee, and the community, as well as to active participation in professional societies.

## Programs

- Materials Engineering, BSE (p. 662)
- Materials Engineering, Minor (p. 665)

Pradeep K. Rohatji	Wisconsin Distinguished Professor	ScD	Massachusetts Institute of Technology	✓
Dev Venugopalan	Associate Professor, Vice Provost	PhD	McMaster University	✓

## Materials Engineering, BSE

Everything we use is made of some material or combination of materials. Materials science is involved with all the processes that turn natural resources into useful products that impact all facets of our economy such as aerospace, electronics, transportation, communication, construction, recreation, entertainment and environment.

### Concentrations

- Biomaterials
- Materials for energy application
- Materials processing
- Advanced materials characterization
- Metal casting
- Specific courses in ceramics, polymers, composites, and electronic materials

### Research

Work with faculty (<http://uwm.edu/engineering/classification/faculty/materials-science-engineering/>) engaged in leading-edge research in areas such as:

- Polymer solar cells
- Materials for advanced drug delivery
- Manufacturing processes
- Structural analysis of aerospace materials
- Materials for energy storage
- Application of nanomaterials in construction
- Self-healing metals and advanced metal-matrix composites

### Career Paths

Materials engineers work in a wide range of jobs across diverse industries. Many of today's significant scientific and technological advances come from materials engineers.

- Research Scientist
- Application Technologist
- Materials and Process Engineer
- Quality Engineer
- Materials Engineering Manager
- Product Engineer
- Geotechnical / Materials Engineer

## Accreditation

The Materials Engineering program is accredited by the Engineering Accreditation Commission of ABET: <https://www.abet.org> (<https://tinyurl.com/u7fsfevw/>).

## New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile,

grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

## Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies.

The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

## Materials Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in Materials Engineering is 120.

Code	Title	Credits
<b>Engineering Core (21 credits)</b>		
CIV ENG 203	Introduction to Solid Mechanics	4
CIV ENG 202	Dynamics	3
COMPSCI 240	Introduction to Engineering Programming <sup>1</sup>	3
EAS 200	Professional Seminar	1
ELECENG 301	Electrical Circuits I	3
IND ENG 367	Introductory Statistics for Physical Sciences and Engineering Students	3
MATLENG 201	Engineering Materials	4
<b>Major Requirements (28 credits)</b>		
MATLENG 316	Thermodynamics of Materials	3
MATLENG 330	Materials and Processes in Manufacturing	3
MATLENG 402	Physical Metallurgy	3
MATLENG 410	Mechanical Behavior of Materials	3
MATLENG 411	Materials Laboratory	3
MATLENG 443	Transport Phenomena in Materials Processing	3

MATLENG 452	Ceramic Materials	3
MATLENG 453	Polymeric Materials	3
MATLENG 490	Senior Design Projects I	1
MATLENG 491	Senior Design Projects II	3
<b>Mathematics Requirement (16 credits)<sup>2</sup></b>		
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
ELECENG 234	Analytical Methods in Engineering <sup>3</sup>	4
<b>Chemistry Requirement (5-10 credits)</b>		
Select one of the following:		5-10
CHEM 105	General Chemistry for Engineering (Suggested)	
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	
<b>Physics Requirement (10 credits)</b>		
Select one of the following options:		10
Option 1:		
PHYSICS 219 & PHYSICS 220	Physics I: Calculus-Based, Studio Format and Physics II: Calculus-Based, Studio Format (recommended)	
Option 2:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
<b>Technical Electives (24 credits)</b>		
Select 24 credits from approved technical elective lists.		24
<b>Free Electives (1 credit)</b>		
GER Distribution Requirement (15 credits)		
Arts		3
Humanities		3
Social Science		6
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3
Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement		
Students must also satisfy Oral and Written Communication (OWC) Part A <sup>4</sup>		0-6
Students must also Satisfy the UWM Foreign Language requirements (0-8) <sup>4</sup>		0-8
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> COMPSCI 151, COMPSCI 202 or COMPSCI 250 may substitute for COMPSCI 240.

<sup>2</sup> MATH 221, MATH 222 and two free electives may substitute for MATH 231, MATH 232 and MATH 233.

<sup>3</sup> MATH 234 may substitute for ELECENG 234.

<sup>4</sup> See General Education Requirements (p. 29) for details.

## Technical Electives

24 credits of technical electives are to be selected from the following lists. At least 12 of the credits of technical electives must come from Group A. Group C can account for no more than 6 credits. Group A may be substituted for groups B and C such that Group A credits can range from 12 - 24 credits.

Code	Title	Credits
<b>Group A Technical Electives</b>		
Select at least 4 courses from the following:		
MATLENG 380	Engineering Basis for Materials Selection	
MATLENG 385	Introduction to Biomaterials	
MATLENG 431	Welding Engineering	
MATLENG 456	Metal Casting Engineering	
MATLENG 457	Engineering Composites	
MATLENG 460	Nanomaterials and Nanomanufacturing	
MATLENG 461	Environmental Degradation of Materials	
MATLENG/MECHENG 465	Friction and Wear	
MATLENG 471	Heat Treatment of Materials	
MATLENG 481	Electronic Materials	
MATLENG 483	Materials for Energy Systems	
MATLENG 485	Introduction to Computational Materials Modeling and Simulations	
MATLENG 511	Advanced Materials Characterization	
MATLENG 585	Advanced Biomaterials	
MATLENG 690	Topics in Materials:	
MATLENG 699	Independent Study	
<b>Group B Technical Electives</b>		
Select up to 12 credits from the following. Group B and C can account for a maximum of 12 credits combined.		
Any BME, CIV ENG, COMPSCI, EAS, ELECENG, IND ENG, MECHENG course 100-level or above		
EAS 1	Engineering Co-op Work Period <sup>1</sup>	
CHEM 221	Elementary Quantitative Analysis	
Any CHEM course 300-level or above		
Any PHYSICS course 250-level or above		
ENGLISH 206	Technical Writing	
ENGLISH 428	Strategic Writing for Organizations	
ENGLISH 429	Technical Communications and Professional Leadership	
ENGLISH 435	Rhetoric and Professional Writing	
<b>Group C Technical Electives</b>		
Select no more than 6 credits.		
Any BIO SCI course 150-level or above		
CHEM 104	General Chemistry and Qualitative Analysis	
Any GEO SCI course 300-level or above		
Any MATH course 300-level or above		

<sup>1</sup> Students who earn 3 or more credits of Co-op may use 3 of those credits as approved technical electives.

## Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

## Concurrent Registration at Other Institutions

CEAS students wishing to establish concurrent enrollment at another institution must obtain prior permission from their academic advisor.

## Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

## Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

## Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,



- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

## Honors in the Major

Students in the Materials Engineering major who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all CEAS courses counting toward the Materials Engineering major.
3. A 3.500 GPA over all upper-division (300 level and higher) Materials Engineering (MATLENG) courses; and
4. At least one of the following:
  - a. Successful completion of 3-cr of research experience via independent study MATLENG 699, subject to approval by the supervising faculty and department chair.
  - b. Participation in accelerated MS program with successful completion of 6 credits in approved MATLENG courses for the MS program.

Students who believe they may qualify for honors in Materials Engineering should apply to the College of Engineering & Applied Science during their last semester of study.

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Joint Programs with Other Campuses

### Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

### Dual Degree Programs

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

## Joint Programs with Wisconsin Technical Colleges

### Gateway Technical College

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

### Milwaukee Area Technical College

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

### Waukesha County Technical College

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

## Materials Engineering, Minor

The Materials minor is directed toward students who want to strengthen their background in materials engineering.

## Requirements

The 18-credit minor requires the following:

Code	Title	Credits
<b>Required</b>		
MATLENG 402	Physical Metallurgy	3
<b>Electives</b>		
Select 5 electives (see below)		15
<b>Total Credits</b>		<b>18</b>

## Electives

Code	Title	Credits
MATLENG 316	Thermodynamics of Materials	3
MATLENG 330	Materials and Processes in Manufacturing	3
MATLENG 380	Engineering Basis for Materials Selection	3
MATLENG 385	Introduction to Biomaterials	3
MATLENG 410	Mechanical Behavior of Materials	3
MATLENG 411	Materials Laboratory	3
MATLENG 431	Welding Engineering	3
MATLENG 452	Ceramic Materials	3
MATLENG 453	Polymeric Materials	3
MATLENG 456	Metal Casting Engineering	3
MATLENG 457	Engineering Composites	3
MATLENG 460	Nanomaterials and Nanomanufacturing	3
MATLENG 461	Environmental Degradation of Materials	3
MATLENG 465	Friction and Wear	3
MATLENG 471	Heat Treatment of Materials	3
MATLENG 481	Electronic Materials	3
MATLENG 483	Materials for Energy Systems	3
MATLENG 511	Advanced Materials Characterization	3
MATLENG 585	Advanced Biomaterials	3
MATLENG 690	Topics in Materials:	3

More information on the minor may be obtained from the CEAS Office of Student Services (414) 229-4667.

## Mechanical Engineering

Mechanical engineering is one of the broadest and most general fields of engineering. Combining some of the basic elements found in electrical and civil engineering with more in-depth use of mechanical design and

thermal science principles, a mechanical engineering education will provide its students with the tools required to solve a wide range of technological problems.

Mechanical engineers work on the design, development, analysis, production, and testing of a wide variety of devices, products, and systems. The devices and systems developed by mechanical engineers can be found in many fields, including energy conversion, power generation, environmental control, manufacturing, materials handling and processing, and transportation and construction equipment.

The mechanical engineering curriculum is based upon fundamental engineering science courses in mechanics, the thermal sciences, mechanical design, and controls. Students also take courses in experimentation, computer-aided engineering, vibrations, and mechatronics. A variety of technical elective courses are also offered. With these courses, a student can either pursue a general mechanical engineering education, or can tailor a program of study towards a concentration in either thermal sciences or mechanical systems.

## Mission Statement

The mission of the UWM Mechanical Engineering Department is:

1. To provide quality educational programs for undergraduate and graduate students planning careers in mechanical engineering or related fields.
  2. To create and disseminate knowledge through research, publications, and other scholarly activities.
  3. To foster a close partnership with industry and government.
  4. To engage in professional and academic service activities of value to the University and the community at large.
- Mechanical Engineering, BSE (p. 667)
  - Mechanical Engineering, Minor (p. 670)
  - Mechanical Engineering, PhD (p. 670)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Ryoichi S. Amano	Professor	PhD	University of California, Davis	✓	
Illya Avdeev	Associate Professor	PhD	University of Pittsburgh	✓	
Robert T. Balmer	Professor	ScD			✓
S. H. Chan	Professor	PhD			✓
Woo-Jin Chang	Associate Professor	PhD	Inha University	✓	
Junhong Chen	Adjunct Professor	PhD	University of Minnesota-Twin Cities		
Roshan D'Souza	Associate Professor	PhD	University of California, Berkeley	✓	
Anoop K. Dhingra	Associate Professor	PhD	Purdue University		✓
Andrew Dressel	Lecturer	PhD	University of Wisconsin-Milwaukee		
Kenneth F. Neusen	Professor	PhD, PE			✓
Michael Nosonosky	Associate Professor	PhD	Northeastern University	✓	
Krishna Pillai	Professor	PhD	University of Delaware	✓	
Deyang Qu	Professor, Chair, Johnson Controls Endowed Chair	PhD	University of Ottawa, Canada	✓	
Mohammad H. Rahman	Associate Professor	PhD	University of Quebec, Canada	✓	
John R. Reisel	Professor	PhD, PE	Purdue University	✓	
Kevin J. Renken	Associate Professor	PhD	University of Illinois at Chicago	✓	

Nathan Salowitz	Associate Professor	PhD	Stanford University	✓
Nathaniel Stern	Professor	PhD	New York University, Trinity College (Dublin, Ireland)	
Yongjin Sung	Associate Professor	PhD	Massachusetts Institute of Technology	✓
Keh C. Tsao	Professor	PhD		✓
Mohamed Yahiaoui	Lecturer	PhD	Massachusetts Institute of Technology	

## Mechanical Engineering, BSE

Mechanical engineering is one of the most general engineering fields. The engineer has the freedom to deal with virtually any aspect of the multi-faceted engineering process such as design, development, analysis, production and testing. The broad nature of the field also provides opportunities to work in various areas of interest ranging from energy conversion or environmental control to the production of transportation and construction equipment.

### Concentrations

- General mechanical engineering
- Thermal sciences
- Mechanical systems

### Research

Work with faculty engaged in leading-edge research in areas such as:

- Design optimization
- Nanotribology
- Technology innovation and entrepreneurship
- Sustainable design and manufacturing
- Marine robotics
- Biomimetic surfaces

### Career Paths

Materials engineers work primarily in engineering services, research and development, manufacturing and the federal government.

- Senior Mechanical Engineer
- Propulsion Engineer
- Process Engineer
- Mechanical Design Engineer
- Product Development Engineer
- Aerospace Structural Engineer

## Accreditation

The Mechanical Engineering program is accredited by the Engineering Accreditation Commission of ABET: <https://www.abet.org> (<https://tinyurl.com/u7fsfevw/>).

## New Freshmen

Admission to the College of Engineering and Applied Science is based on an overall assessment of both academic and non-academic qualifications. The primary review factors for admission are the strength and quality of the high school curriculum, high school class percentile, grade point average, and the result of the ACT or SAT. Well-prepared freshman applicants will have four years of mathematics (including one-and-a-half years of algebra, one year of geometry, and one-half year of trigonometry) and four years of natural science (including biology, chemistry, and physics). The College also will consider non-academic

qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

## Transfer Students

Transfer student admission is based on an overall assessment of both academic and non-academic qualifications. For transfer applicants, the primary factors considered for admission are the grade point average on transferable courses and the level of curriculum completion. The College also will consider non-academic qualifications such as leadership skills, diversity in personal background, work experience, motivation, and maturity.

Applicants who do not meet the requirements for admission to the College of Engineering & Applied Science will automatically be considered for admission to the Pre-Engineering program in the UWM College of General Studies.

The Pre-Engineering program is an Associate degree level program offered jointly by the College of General Studies and the College of Engineering & Applied Science. The curriculum is designed to prepare students for the engineering program with emphasis on mathematics.

Questions on admission to CEAS or choosing a major should be directed to the Office of Student Services, (414) 229-4667.

## Mechanical Engineering Curriculum

The minimum number of credits required to complete the Bachelor of Science in Engineering with a major in Mechanical Engineering is 120.

Code	Title	Credits
<b>Engineering Core - 15 credits</b>		
CIV ENG 203	Introduction to Solid Mechanics	4
CIV ENG 202	Dynamics	3
EAS 200	Professional Seminar	1
MATLENG 201	Engineering Materials	4
MECHENG 301	Basic Engineering Thermodynamics	3
<b>Major Requirements - 44 credits</b>		
IND ENG 369	Introduction to Probability and Statistical Inference	1
MATLENG 330	Materials and Processes in Manufacturing	3
MECHENG 101	Computational Tools for Engineers	2
MECHENG 110	Engineering Fundamentals I	4
MECHENG 111	Engineering Fundamentals II	3
MECHENG 270	Computer Aided Engineering Laboratory	2
MECHENG 302	Introduction to System Dynamics	3
MECHENG 321	Basic Heat Transfer	4
MECHENG 324	Introduction to Fluid Mechanics	4
MECHENG 360	Mechanical Design I	3
MECHENG 364	Advanced Mechanics of Materials and Design of Machine Elements I	3

MECHENG 368	Design of Machine Elements 2	3
MECHENG 379	Introduction to Mechatronics	3
MECHENG 438	Mechanical Engineering Experimentation	3
MECHENG 496 or MECHENG 405	Senior Design Project Product Realization	3
<b>Mathematics Requirement - 16 credits</b> <sup>1</sup>		
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
ELECENG 234	Analytical Methods in Engineering	4
<b>Chemistry Requirement - 5 credits</b>		
CHEM 105 or CHEM 102	General Chemistry for Engineering General Chemistry	5
<b>Physics Requirement - 10 credits</b>		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	5
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	5
<b>Elective Requirement - 15 credits</b>		
Unrestricted (any non-required courses)		3
Non-required courses within CEAS, Math, or Physics		6
Non-required courses within MechEng at or above the 300 level		6
<b>GER Distribution Requirement - 15 credits</b>		
Arts		3
Humanities		3
Social Science		6
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3
Cultural Diversity - Arts, Humanities, or Social Science course must also satisfy UWM Cultural Diversity Requirement		
Students must also satisfy Oral and Written Communication (OWC) Part A <sup>2</sup>		0-6
Students must also satisfy the UWM Foreign Language Requirement <sup>2</sup>		0-8
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> MATH 221, MATH 222 and two free elective credits may substitute for MATH 231, MATH 232 and MATH 233.

<sup>2</sup> See General Education Requirements (p. 29) for details.

## Minimum Requirements

Students must maintain an average GPA of at least 2.00 on all work attempted at the University and in all courses offered by the College. Students majoring in biomedical engineering, computer engineering, computer science, industrial engineering, and materials engineering must maintain an average GPA of at least 2.00 in all 300-level and above courses in the student's major department. Students majoring in civil engineering, electrical engineering, and mechanical engineering must maintain an average GPA of at least 2.50 in all 300-level and above courses in the major department. Transferable courses will be included as appropriate. Advancement to major status is required for graduation.

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires residence:

1. during the last 30 credits, or
2. during 45 of the last 60 credits, or
3. during any 90 credits of a student's undergraduate career.

At least 15 credits of advanced work in the major must be completed in residence at UWM.

A student who does not maintain continuous registration during the academic year and is re-admitted to the College must meet the program and graduation requirements in effect at the time of re-entry.

Degree and major requirements must be completed within 10 years of initial enrollment at UW-Milwaukee. Should students not complete the major within the 10-year time frame, the students will switch to the most current degree and major requirements. A new 10-year time frame would then begin.

## Dual Majors

Students wishing to major in more than one field can do so in two ways:

1. Complete the requirements for more than one major before receiving a degree from the College. In this case, the degree will list both majors.
2. Be admitted to the College as a second degree candidate (after earning a bachelor's degree in any field), providing University and College entrance requirements are met. Such a student must meet all undergraduate degree requirements in the College and present a minimum of 30 credits beyond the previous bachelor's degree.

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## Student Academic Appeals

Students may appeal an academic action to the Office of Student Services. An appeal is a request for an exception to an established policy or rule. The content of each appeal is carefully reviewed in order to reach a decision. Appeals should be submitted in writing to the Office of Student Services. The appeals committee considers individual cases concerning the degree requirements and other academic rules and regulations established by the College of Engineering and Applied Science faculty.

The College of Engineering and Applied Science has established written procedures for undergraduate student academic grievances. Copies of the grievance procedure are available in the Office of Student Services. As a first step, students must discuss the grievance with the faculty member or administrator as soon as possible to attempt to resolve the issue, but not later than 30 days after the action that prompted the grievance/appeal.

## Computer Science and Engineering Programs

Detailed descriptions of the CEAS undergraduate programs are provided in this catalog. All courses are not offered every semester. A few technical elective courses may be offered only once every three to four semesters. In addition, since computer science and engineering curricula are continually evolving to keep current, students are encouraged to consult with their advisors to plan each semester's list of classes. Part-

time students should always maintain a plan that looks ahead two to three semesters to avoid scheduling difficulties.

The curricula outlined in the pages are applicable to new students entering CEAS in fall 2016 or later. Students who enrolled in computer science or engineering programs prior to that date should consult with the appropriate previous editions of this catalog for information about their program requirements. As a general rule, when program changes occur, continuing students have the choice of continuing in their existing program or following the new requirements. Occasionally, a program change will be required of all students regardless of their date of matriculation, so long as it does not increase the total credits needed for graduation.

These program descriptions represent the minimum requirements for graduation from UWM in computer science or engineering. In all cases, it is important that students consult with their advisor before making course selections to avoid errors in programming.

## Academic Advising

The Office of Student Services in the College of Engineering and Applied Science, located in Room E386 of the Engineering and Mathematical Sciences Building, offers undergraduate students academic advising from professional advisors who are familiar with the curriculum, College requirements, and the special needs of engineering and computer science students. These advisors provide services such as freshman orientation, course selection, program planning, and credit transfer evaluation. Students are assigned to a permanent professional advisor as soon as they are accepted into the College, and are urged to confer with their advisor at least once each semester. Students also are assigned to a faculty advisor who provides technical expertise specific to the student's area of study.

We understand that it can be a delicate balance managing school, work, family, and active social lives. The College of Engineering and Applied Science advisors are here to help you achieve that balance.

You will be assigned a professional academic advisor upon being admitted to the College of Engineering & Applied Science. Your advisor will work with you throughout your undergraduate experience, providing guidance on:

- course registration,
- graduation planning,
- career preparation,
- and serving as a liaison to the many other resources available on our campus.

Advisors are also a great source of information on student organizations, tutoring and scholarship opportunities.

In addition to professional academic advisors, you will also have access to faculty advisors. These advisors can provide insights into the technical aspects of the engineering and computer science curricula while mentoring you as you define your professional goals.

## Honors in the Major

Students in the Mechanical Engineering major who meet all the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all CEAS courses counting toward the Mechanical Engineering major; and
3. At least one of the following:
  - a. Taking 15 Mechanical Engineering elective credits (MechEng 400 level or higher).
  - b. Participation in a three elective credit research (MECHENG 699) supervised by a Mechanical Engineering faculty member leading to a presentation to be defended before a three member committee.

Students who believe they may qualify for honors in Mechanical Engineering should apply to the College of Engineering & Applied Science during their last semester of study.

## College of Engineering and Applied Science Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Joint Programs with Other Campuses

### Pre-engineering

Qualified students may enroll in coordinated pre-engineering programs at UW-Green Bay, UW-Parkside, and UW-Waukesha for two years of pre-engineering coursework. These coordinated programs ensure equivalent coursework, appropriate advising, and early access to the Cooperative Education Program at UWM.

### Dual Degree Programs

Qualified students may enroll in coordinated dual degree programs at Alverno College, Carroll University, UW-Eau Claire, UW-Green Bay, UW-La Crosse, UW-Oshkosh, UW-Stevens Point, UW-Whitewater and Wisconsin Lutheran College. Students in these programs will earn a bachelor's degree at both universities in five years. Students transfer to UWM after three years at the partner university. For more information, contact the Office of Student Services at (414) 229-4667.

## Joint Programs with Wisconsin Technical Colleges

### Gateway Technical College

An agreement with GTC allows those students having associate degrees in the Electrical Engineering - Technology the opportunity to be given credit for courses required in the UWM bachelor of science in engineering program. For more information, contact the Office of Student Services at (414) 229-4667.

### Milwaukee Area Technical College

An agreement with MATC allows joint admission and enrollment at MATC and CEAS. Qualified students may take English, mathematics, chemistry, and general education courses at MATC. The program ensures equivalent coursework and appropriate advising. Students complete a bachelor of science degree in engineering or computer science at UWM.

### Waukesha County Technical College

An agreement with WCTC allows those students having associate degrees in the Industrial Occupations Division at WCTC the opportunity to be given credit for courses required in the UWM bachelor of science in engineering or bachelor of science in computer science program. For more information, contact the Office of Student Services at (414) 229-4667.

## Mechanical Engineering, Minor

The minor in mechanical engineering is designed for students in engineering, architecture, and physics. The minor is not available to mechanical engineering majors.

### Requirements

- 20 credits from Mechanical Engineering courses 301 and above.
- Minimum of 12 credits of the minor coursework must be completed at UWM.
- If a bachelor's degree was obtained at another institution, upon completion of the minor requirements the student will be awarded a Certificate of Minor.

## Mechanical Engineering, PhD

The Ph.D. in Mechanical Engineering program, focused on cutting-edge research and advanced education, serves the broad UW–Milwaukee mission for discovery, research, and education and supports the generation of new knowledge for the development and betterment of society and research collaborations with local industries.

Current research areas of strength of the Ph.D. in Mechanical Engineering include:

- Renewable Energy
- Power Storage
- Tribology
- Optics
- Robotics and Control
- Rehabilitation Engineering and Biomechanics
- Sensor Development
- Structural Health Monitoring
- Water Filtration

The Ph.D. in Mechanical Engineering requires a minimum of 66 graduate credits beyond the bachelor's degree, comprised of a minimum credit distribution of 21 credits in the major area; 9 credits in an approved minor area; 6 credits in mathematics and/or quantitative methods; 9 credits of approved electives; 3 credits of CEAS Graduate Seminar (Ethics and Engineering Communication); and 18 credits of doctoral thesis. A minimum of 26 credits, excluding dissertation, must be at the 700 level or higher. The student must also satisfy a residence requirement. Many of the courses leading toward graduate degrees in CEAS are offered in the late afternoon or evening. So, students can complete much of their coursework on a part-time basis.

Each student will develop their program of study in consultation with their major professor. The program of study will be tailored to each student based on their area of dissertation research and their prior academic background.

## Student Learning Program Outcomes

The student learning outcomes include the ability to:

1. Apply advanced knowledge of mathematics, science, and engineering to solve complex problems.
2. Use modern tools or techniques to solve complex problems, conduct research, and analyze and interpret data.
3. Demonstrate proficiency and competency in the area of specialization.
4. Identify, formulate, and solve complex problems with an original and/or significant contribution to the field.
5. Demonstrate familiarity with research in a related or complementary discipline.
6. Use quantitative methods appropriate to the field of research.
7. Understand academic, professional, and ethical responsibility.
8. Communicate effectively via technical writing and oral presentations.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these College requirements to be considered for admission to the program:

1. A bachelor's or master's degree:
  - a. Applicants holding a BS or MS degree in engineering or computer science, depending on the major area selected will generally be admitted without deficiencies.
  - b. Applicants holding BS or MS degrees from domains outside of engineering or computer science may be admitted with specific program-defined course deficiencies, provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For the Engineering major areas, the BS or MS preparation generally must include mathematics equivalent

to ELECENG 234 or MATH 234. For the Computer Science major area, the mathematics preparation must generally include mathematics equivalent to MATH 232. Otherwise, the made-up deficiencies must be sufficient to assure the Graduate Program Subcommittee that the applicant is able to proceed with advanced work directed toward the doctoral degree.

- A minimum grade point average of 3.0 on the basis of 4.0, in the highest degree granted. An applicant with a master's degree in engineering or computer science having a GPA of less than 3.0, but at least equal to 2.75, may be admitted if substantial evidence can be submitted demonstrating that the applicant has the capacity to perform satisfactory doctoral work.
- All applicants are required to submit a brief (1 or 2 page) statement describing their professional goals and at least two letters of reference.
- The Graduate Record Examination (GRE) is required for all international and domestic applicants.
- International students require proof of English language proficiency. Complete information is available at the UWM Center for International Education (<http://www.uwm.edu/Dept/CIE/>).
- Applicants with a relevant master's degree who intend to complete an additional master's in engineering at UWM should announce their plans at the time of admission, and not later than the start of their second year into the PhD program.
- Applicants are required to submit an academic CV. The CV should list academic experience, professional work experience, research work experience, technical expertise and skills, publications (journals, conferences, posters, patents, etc.), and at least three references.

## Reapplication

A student who receives a master's degree at UWM must formally apply for admission to the Graduate School as a doctoral student before continuing studies that will be credited toward the Doctor of Philosophy in Engineering.

## Credits and Courses

The minimum degree requirement is 66 graduate credits beyond the bachelor's degree. The minimum credit distribution of coursework to be undertaken must be as follows, depending on the option selected.

Code	Title	Credits
Select 21 credits in the major area of concentration		21
Select 9 credits in an approved minor area		9
Select 6 credits in mathematics and/or quantitative methods		6
Select 9 credits of approved electives		9
<b>Select 3 credits of:</b>		<b>3</b>
MECHENG 700	CEAS Graduate Seminar	
<b>Select 18 credits of:</b>		<b>18</b>
MECHENG 998	Doctoral Thesis	
<b>Total Credits</b>		<b>66</b>

The 6-credit requirement in mathematics and/or quantitative methods may be met by satisfactorily completing certain courses specified by the GPSC or by taking the minor in mathematics. When such courses also count for either the major area or the minor area, the remaining credits may be taken as approved electives.

The department of Mechanical Engineering offers a PhD in Mechanical Engineering. The student must achieve a 3.0 GPA separately in each of

the following areas: the Mechanical Engineering major area, the minor area, and the quantitative methods area.

The minor is normally taken in one of the other major areas of the PhD in Engineering or in the physical sciences or mathematics or in business management. Consideration of any other area as a minor requires the prior approval of the thesis adviser and the chairperson of the Mechanical Engineering Department.

A minimum of 33 credits, including doctoral thesis, must be completed while enrolled at UWM in the PhD degree program. For students entering with a relevant master's degree who intend to complete a second master's and a PhD in Mechanical Engineering at UWM, a minimum of 27 credits, including doctoral thesis, must be completed while enrolled in the doctoral program.

Students entering the program without a prior applicable master's degree are limited to a total maximum transfer of 9 credits for courses taken elsewhere. Independent study courses (699 and 999) may be included in the minimum course credit requirements provided GPSC approval has been obtained prior to registration in such course. Typically no more than six credits of independent study are allowed in the PhD program. Guidelines on acceptable independent study courses are available in the CEAS Graduate Studies Office.

The GPSC or the major department may require candidates to complete certain courses as part of the requirement for the specific major or to meet the mathematics and/or quantitative methods requirement.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that the student must have a major professor to advise, supervise, and approve the program of study before registering for courses. The GPSC or its delegates will assign the incoming student to an initial Program Advisor at the time of admission. Prior to the completion of 12 credits (9 credits for part-time students), the student must select a major professor who will be the student's thesis advisor. The student, in consultation with the major professor, develops a proposed program of studies which is submitted to the Graduate Program Subcommittee for approval. For subsequent changes, the student must file a revised program of study for approval.

### Foreign Language

There is no foreign language requirement for the degree.

### Residence

The program residence requirement is satisfied either by completing 8 or more graduate credits in two consecutive semesters, exclusive of summer sessions, or by completing 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.

### Qualifying Examination

Each student in the program must take and pass a Qualifying Examination (QE) to demonstrate that the student is qualified for doctoral-level work. The Qualifying Examination is a written open-book exam. The examination is offered twice a year during the regular academic year. The content of the examination varies among the major areas of the PhD in Engineering program.

Students entering with only a bachelor's degree or with a master's degree in an area unrelated to their major area may take the Qualifying Examination for the first time after earning 18 credits of graduate work

at UWM and must successfully pass the exam before earning 30 credits of graduate work at UWM. Students admitted to the Ph.D. program after completion of an appropriate Master's degree must take the QE by the 3<sup>rd</sup> Semester.

A student who fails the qualifying exam twice is subject to dismissal from the PhD in Engineering program. A student may appeal the failure and dismissal within 30 days of being notified of the failure. If the student does not appeal or the appeal is not granted, the College will recommend to the Graduate School that the student be dismissed. A student who is dismissed from the PhD in Engineering program because of failing the qualifying exam may not be enrolled in the PhD in Engineering program for a complete calendar year. This does not preclude the student from being enrolled in any other degree program offered by the University. A student who wishes to re-enroll in the program after a calendar year has passed must apply as any other student would, including payment of fees. A student readmitted after having failed the qualifying exam twice must take the qualifying exam in the first semester of matriculation and this will count as the student's first attempt at the exam. The student may appeal this requirement prior to the first scheduled day of classes. If the student fails the qualifying exam on this first attempt, the student is permitted the customary second attempt as described above. All appeals must be in writing and directed to the CEAS Associate Dean for Academic Affairs.

## Doctoral Program Committee

The Doctoral Program Committee is proposed by the major professor in consultation with the student and the department. The Committee must include at least five graduate faculty (three from major area, one from minor area, and one from any area, including the major and minor areas). The last member may be a person from outside the University (such as another university, a research laboratory, or a relevant industrial partner), provided that person meets Graduate School requirements. The Committee may have more than five members, provided that the majority of the Committee members are from the student's major field.

## Doctoral Preliminary Examination

The student must pass doctoral preliminary examinations (PE) within five years of initial doctoral program enrollment. The preliminary exam consists of a written component and an oral presentation.

1. **Written Component:** Accomplish **one of the two** following:
  - a. Publish preliminary research results (as a first author) in a Quartiles 1 or 2 (Q1/Q2) journal; **OR**
  - b. Prepare a manuscript in a style appropriate for technical journal/conference proceedings publication presenting preliminary work and results to date. This work is to be submitted to the three-member Preliminary Exam (PE) Committee to examine the quality/advancement of the research work.
2. **Oral Presentation:**

The student will present their research work to a three-member PE Committee as part of the preliminary examination process. The advisor will form the committee according to the Prelim Committee Guidelines. The committee will evaluate the presentation based on various criteria, including Problem Definition, Literature Review and Previous Work, Critical Analysis of Literature Review, Research Aims, Impact of the Proposed Research, Proposed Solutions, Contributions/Novelty of the proposed research, Expected Results/Deliverables, and Quality of Oral Communication. The student will receive a Pass/Fail score based on the committee's evaluation. In the event that a student fails the Preliminary Exam, they will be given another chance to revise their manuscript and presentation based on the committee's

suggestions. They must redo the manuscript and presentation by the end of the following Semester.

## Proposal Hearing

Students must complete a proposal in accordance with the graduate school guidelines that will be composed of a presentation of original research on the path to their PhD Advisor and committee members may request written components that may include technical publications or draft portions of a thesis. Students must submit the Prelim proposal draft to the PhD Program committee at least 14 days before the hearing date. Mechanical Engineering Graduate Program Committee (MEGPC) will monitor the time frame and approve the preliminary proposal hearing date.

## Dissertation and Dissertator Status

The student must carry out a creative effort in the major area under the supervision of the major professor and report the results in an acceptable dissertation. The effort of the student and the major professor to produce the dissertation is reflected in the PhD in Mechanical Engineering program requirement that the student complete at least 18 credits of doctoral thesis.

After the student has successfully completed all degree requirements except the dissertation, the student may enter Dissertator Status. Achieving Dissertator Status requires successful completion of the Proposal Hearing and prior approval of the student's advisor, the Doctoral Program Committee, and the GPSC of a dissertation proposal that outlines the scope of the project, the research method, and the goals to be achieved. Any proposal that may involve a financial commitment by the University also must be approved by the Office of the Dean. After having achieved Dissertator Status, the student must continue to register for 3 credits of doctoral thesis per semester during the academic year until the dissertation is completed.

## PhD Dissertation Review Period

Students must submit the dissertation draft to the PhD Program committee **at least 14 days before** the scheduled defense date.

## Dissertation Defense

The final examination, which is oral, consists of a defense of the dissertation project. The doctoral defense examination may only be taken after all coursework and other requirements have been completed. The student must have Dissertator Status at the time of the defense.

## Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>).



# FRESHWATER SCIENCES (SCHOOL OF)

With a degree in freshwater sciences or atmospheric sciences, students can turn their passion for the environment into a fulfilling career. The School of Freshwater Sciences offers bachelor's, master's and doctoral degrees in freshwater and atmospheric sciences. These programs offer an interdisciplinary approach to training the next generation of scientists armed with the knowledge, skills, and experience to anticipate and address the environmental issues of the future.

Areas of study include:

- Freshwater Policy and Economics
- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology
- Weather and Climate

Undergraduate degree programs combine foundational coursework with multiple hands-on experiences to prepare students for the job market.

Graduate degree programs offer extensive research and internship

opportunities with faculty mentorship. Freshwater Sciences students have access to state-of-the-art labs and equipment, a genomics center, and research vessels that provide opportunities to develop skills in the latest scientific techniques. Atmospheric Sciences students meet all the requirements to be employed by the National Weather Service or another federal agency as a meteorologist.

## Programs

- Atmospheric Science, BS (p. 674)
- Atmospheric Science, Minor (p. 676)
- Atmospheric Science, MS (p. 676)
- Atmospheric Science, PhD (p. 677)
- Freshwater Sciences, BS: Aquatic Science (p. 679)
- Freshwater Sciences, BS: Water Policy (p. 681)
- Freshwater Sciences, Minor (p. 683)
- Freshwater Sciences, MS: Aquatic Science (Professional) (p. 683)
- Freshwater Sciences, MS: Aquatic Science (Thesis) (p. 685)
- Freshwater Sciences, MS: Water Policy (Professional) (p. 686)
- Freshwater Sciences, MS: Water Policy (Thesis) (p. 688)
- Freshwater Sciences, PhD (p. 689)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Carmen Aguilar	Associate Scientist	PhD	University of Wisconsin-Milwaukee		
Fred Binkowski	Senior Scientist	PhD	University of Wisconsin-Milwaukee		✓
Harvey Bootsma	Associate Professor	PhD	University of Manitoba	✓	
Tracy Boyer	Professor	PhD	University of Minnesota	✓	
Arthur Brooks	Professor	PhD	Johns Hopkins University		✓
Michael Carvan	Shaw Professor	PhD	Texas A&M University	✓	
Russell Cuhel	Senior Scientist	PhD	Massachusetts Institute of Technology and Woods Hole Oceanographic Institution		
Dong-Fang Deng	Professor	PhD	University of California-Davis	✓	
A. Clark Evans	Professor, Atmospheric Science Program Coordinator	PhD	Florida State University	✓	
Tim Grundl	Professor	PhD	Colorado School of Mines		✓
Laodong Guo	Professor	PhD	Texas A&M University	✓	
John Janssen	Professor	PhD	Michigan State University	✓	
Jonathan Kahl	Professor	PhD	University of Michigan	✓	
Jerry Kaster	Associate Professor	PhD	University of Colorado		✓
Rebecca Klaper	Interim Dean, Professor	PhD	University of Georgia	✓	
J. Val Klump	Professor	PhD	University of North Carolina-Chapel Hill		✓
Sergey Kravtsov	Professor	PhD	Florida State University	✓	
James Lubner	Professor	PhD	University of Wisconsin-Milwaukee		✓
Sandra McLellan	Professor	PhD	University of Cincinnati Medical Center	✓	
Ryan Newton	Assistant Professor	PhD	University of Wisconsin-Madison	✓	
James Price	Assistant Professor	PhD	The University of New Mexico	✓	
Paul Roebber	Distinguished Professor	PhD	McGill University	✓	
Melissa Scanlan	Professor, Lynde B. Uihlein Endowed Chair and Director, Center for Water Policy	JD	University of California, Berkeley	✓	

Xinyi Shen	Assistant Professor	PhD	Institute of Remote Sensing and GIS, Peking University	✓
Osvaldo Jhonatan Sepulveda Villet	Assistant Professor	PhD	University of Toledo	✓
James Waples	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓

## Contact Information

### School of Freshwater Sciences

Great Lakes Research Facility  
600 E. Greenfield Avenue  
Milwaukee, WI 53204

<http://uwm.edu/freshwater/>

## Atmospheric Science, BS

Atmospheric Science, of which Meteorology is a subset, is the study of short-term weather and long-term climate, involving activities such as weather forecasting, climate projections, air quality modeling, data analysis, and basic and applied research.

Through the Atmospheric Science major, students obtain a solid foundation in both weather and climate, the tools used to study them, and their consequences to people and organizations. Our major meets all guidelines for employment with the United States Government, including the National Oceanic and Atmospheric Administration and National Weather Service, as a Meteorologist.

A career in Atmospheric Science is very rewarding because of the impact weather and climate have on everyday life. You will find atmospheric scientists in many different roles: nearly 36% work in the private sector, which includes consulting firms and forecasting entities; 33% for governmental agencies such as NOAA and the NWS; 24% at educational institutions or laboratories; and 7% in the media. The strongest job prospects are currently in the private sector.

Our students have unique opportunities available to them that are not found at any other university in the state or region. Our Innovative Weather program provides students with paid internships in weather forecasting and communication, helping partners such as We Energies, Summerfest, and MMSD make decisions to protect their interests and communities against hazardous weather. Students can also become involved in undergraduate research, and several of our students have recently received national awards for their research! Our program is also home to the first-of-its-kind faculty-led study abroad program to Mexico, "Air Pollution and Ancient Cultures," which takes place each January. Finally, we have two active student-led clubs, The Climate Consensus and the Atmospheric Science Club at UWM!

## Requirements

Students must earn a minimum of 120 credits to complete the BS in Atmospheric Science degree. Students must complete at least 15 upper-division (300-level and above) credits in the major in residence at UWM, and must complete at least 30 credits in residence at UWM.

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 30) that must be met in order to earn a bachelor's degree. Some of the requirements of your program fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

## Atmospheric Science (BS) Major Requirements

### Preparatory Curriculum

Students in this major must complete MATH 231, MATH 232, and MATH 233 (or equivalents). MATH 221 and MATH 222 are equivalent to the sequence of MATH 231, MATH 232, and MATH 233. All majors must take either MATH 234 or MATH 240. Students in this major must complete preparatory work in mathematics, chemistry, physics, and computer science, as listed in the table below.

### Required Courses

The following courses are required for the atmospheric science major.

Code	Title	Credits
<b>Additional Preparatory Curriculum</b> <sup>1</sup>		
CHEM 102	General Chemistry	5
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	5
PHYSICS 210	Physics II (Calculus Treatment)	4
COMPSCI 202	Introductory Programming Using Python	3
<b>Core</b>		
ATM SCI 101	Preparing for a Career in Atmospheric Science	1
ATM SCI 240	Introduction to Meteorology	4
ATM SCI 250	Introduction to Climate Science	4
ATM SCI 330	Air-Pollution Meteorology	3
ATM SCI 350	Atmospheric Thermodynamics	3
ATM SCI 351	Dynamic Meteorology I	3
ATM SCI 352	Dynamic Meteorology II	3
ATM SCI 360	Synoptic Meteorology I	4
ATM SCI 361	Synoptic Meteorology II	4
ATM SCI 464	Physical Meteorology: Cloud Physics	3
ATM SCI 511	Seminar in Atmospheric Radiation and Remote Sensing	3
ATM SCI 600	Data Analytics	3
MATH 320	Introduction to Differential Equations	3
<b>Electives</b>		
Select at least 15 credits of the following:		15
ATM SCI 460	Mesoscale Circulations	
ATM SCI 470	Tropical Meteorology	
ATM SCI 480	The General Circulation and Climate Dynamics	
ATM SCI 497	Study Abroad:	
ATM SCI 500	Statistical Methods in Atmospheric Sciences	
ATM SCI 505	Micrometeorology	
ATM SCI 690	Seminar in Atmospheric Sciences:	
ATM SCI 695	Internship in Atmospheric Sciences, Upper Division	

CES 210	Introduction to Conservation and Environmental Science
CES 515	Environmental Law for Natural Resource Managers
CIV ENG 311	Introduction to Energy, Environment and Sustainability
CIV ENG 412	Applied Hydrology
ECON 328	Environmental Economics
ECON 525	The Economics of Water
FRSHWTR 391	Water and Natural Resource Economics
FRSHWTR 392	Water, Energy, Food, and Climate
FRSHWTR 393	Water Law, Policy, and the Environment
FRSHWTR 461	Politics and Policy of Sustainability
FRSHWTR 510	Economics, Policy and Management of Water
FRSHWTR 583	Cost-Benefit Analysis for Environmental Resource Decisions
GEOG 215	Introduction to Geographic Information Science
GEOG 306	Natural Hazards
GEOG 310	General Climatology
GEOG 350	Conservation of Natural Resources
GEOG 403	Remote Sensing: Environmental and Land Use Analysis
GEOG 415	Hydrogeography
GEOG 450	Climates of the Past and Climate Change
GEOG 464	Environmental Problems
GEOG 515	Watershed Analysis and Modeling
GEOG 525	Geographic Information Science
GEOG 625	Intermediate Geographic Information Science
GEO SCI 400	Water Quality
GEO SCI 463	Physical Hydrogeology
GEO SCI 562	Environmental Surface Hydrology
GEO SCI 563	Field Methods in Hydrogeology
JAMS 101	Introduction to Mass Media
JAMS 201	Media Writing
JAMS 204	News Writing
JAMS 302	Introduction To Video Storytelling
JAMS 325	Audio Storytelling
JAMS 342	Television News Reporting
MATH 322	Introduction to Partial Differential Equations
MATH 325	Vector Analysis
MECHENG 301	Basic Engineering Thermodynamics
MTHSTAT 361	Introduction to Mathematical Statistics I
MTHSTAT 362	Introduction to Mathematical Statistics II
POL SCI 216	Environmental Politics

Total Credits

73

<sup>1</sup> These courses are required, but do not count in calculating the major GPA.

## Honors in the Major

Students in Atmospheric Sciences who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Atmospheric Sciences major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Atmospheric Sciences major; and
4. Successful completion of at least two semesters of research and/or internship experiences. The research and internship experiences can include one or more of a directed independent study for credit (ATM SCI 699), an internship for credit (ATM SCI 695), the Atmospheric Sciences Study Abroad course (ATM SCI 497), undergraduate research for compensation, and participation in the Innovative Weather program as a paid staff member.

Students who believe they may qualify for honors in Atmospheric Sciences should apply to the School of Freshwater Sciences during their last semester of study.

## School of Freshwater Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Contact Information

**Atmospheric Science**  
School of Freshwater Sciences  
600 E Greenfield Avenue  
Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/bs-atmospheric-science/>

## Atmospheric Science, Minor

Atmospheric Science, of which Meteorology is a subset, is the study of short-term weather and long-term climate, involving activities such as weather forecasting, climate projections, air quality modeling, data analysis, and basic and applied research.

Through the Atmospheric Science minor, students obtain a solid foundation in both weather and climate, the tools used to study them, and their consequences to people and organizations. The Atmospheric Science minor is a great option for students pursuing environmental- and/or data-science-focused majors who would like to learn more about weather and climate to improve their job prospects and/or pursue an Atmospheric Science graduate degree.

### Requirements

Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM, and students must attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

The minor consists of a minimum of 18 credits in atmospheric science, as follows.

Code	Title	Credits
ATM SCI 240	Introduction to Meteorology	4
Select 14 additional Atm Sci credits, at least 9 of which are at the 300 level or above		14
<b>Total Credits</b>		<b>18</b>

### Contact Information

#### Atmospheric Science

School of Freshwater Sciences  
600 E Greenfield Avenue  
Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/bs-atmospheric-science/>

## Atmospheric Science, MS

Atmospheric Science faculty and graduate students engage in a wide range of atmospheric research, with specializations that include climate variability, numerical modeling, atmospheric dynamics, mesoscale and synoptic meteorology, air-pollution meteorology, and data analytics. Our program is an excellent place for graduate study because of our research excellence, close collaboration between faculty and students, friendly environment, and open-door policy for questions.

The Atmospheric Science M.S. program is a thesis-based program that is designed to prepare students for employment in weather, climate, or data-driven fields, or for continued study in pursuit of the Ph.D. The M.S. program typically requires two years to complete for students entering with a B.S. in Atmospheric Science or a related discipline. Students are typically supported as either Research or Teaching Assistantships.

Though it can be intimidating to do so, we highly encourage all prospective graduate students to reach out to the faculty members who do research in the areas of greatest interest to you. This does not have to be very formal: an e-mail that introduces yourself and lets us know that you are interested in learning more about our graduate programs is a great starting point! Reaching out helps you get more information about

our program, learn more about potential research opportunities, start to determine if one of us would be a good fit for you as a mentor, and ask any questions about the application process that you might have.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

- A general background in both physics and mathematics, including calculus and ordinary differential equations. Students who lack this background may be admitted if the deficiencies amount to no more than two courses. Deficiencies must be made up within the first three enrolled semesters of graduate study.
- Submission of a Reason Statement. Statements are used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. Your reason statement should include:

1. your reasons for pursuing graduate study
2. your specific background interests and background in the field
3. any relevant skills or training you've acquired
4. any academic awards or honors you have received
5. the name(s) of faculty members with whom your research interests most closely align

### Optional

Submission of scores on the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>).

## Credits and Courses

Students enrolled in the MS in Atmospheric Science degree program must complete a total of thirty (30) credits.

Code	Title	Credits
Select 9 credits at the ATM SCI or FRSHWTR 700-level or greater		9
Select 6 credits in approved graduate elective courses		6
Select one of the following:		6
MATH 703 & MATH 704	Advanced Engineering Mathematics I and Advanced Engineering Mathematics II	
ATM SCI 500 & ATM SCI 700	Statistical Methods in Atmospheric Sciences and Statistical Methods in Atmospheric Sciences II: Signal Detection	
Complete 9 thesis credits:		9
ATM SCI 990	Master's Thesis	
<b>Total Credits</b>		<b>30</b>

Students receiving financial support from the School of Freshwater Sciences must enroll in a minimum of fifteen (15) credits offered by the department during each academic year.

Courses in Atmospheric Science that may be taken for graduate credit are listed below.

Code	Title	Credits
ATM SCI 330	Air-Pollution Meteorology	3
ATM SCI 350	Atmospheric Thermodynamics	3
ATM SCI 351	Dynamic Meteorology I	3
ATM SCI 352	Dynamic Meteorology II	3
ATM SCI 360	Synoptic Meteorology I	4
ATM SCI 361	Synoptic Meteorology II	4
ATM SCI 460	Mesoscale Circulations	3
ATM SCI 464	Physical Meteorology: Cloud Physics	3
ATM SCI 470	Tropical Meteorology	3
ATM SCI 480	The General Circulation and Climate Dynamics	3
ATM SCI 497	Study Abroad: (subtitled)	3
ATM SCI 500	Statistical Methods in Atmospheric Sciences	3
ATM SCI 505	Micrometeorology	3
ATM SCI 511	Seminar in Atmospheric Radiation and Remote Sensing	3
ATM SCI 600	Data Analytics	3
ATM SCI 690	Seminar in Atmospheric Sciences:	3
ATM SCI 700	Statistical Methods in Atmospheric Sciences II: Signal Detection	3
ATM SCI 705	Air Pollution Modeling	3
ATM SCI 711	Cloud Dynamics	3
ATM SCI 730	Numerical Weather Prediction	3
ATM SCI 750	Nonlinear Time Series Analysis	3
ATM SCI 761	Advanced Synoptic/Mesoscale Meteorology	3
ATM SCI 950	Seminar on Topics in Atmospheric Sciences:	3
ATM SCI 990	Master's Thesis	1-8
ATM SCI 997	Doctoral Externship	1-12
ATM SCI 998	Doctoral Dissertation	1-12
ATM SCI 999	Advanced Independent Reading	1-4

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

### Thesis

Prior to graduation, students, under the direction of a major professor and supervision of a three-member evaluation committee comprised of Atmospheric Science graduate faculty, must complete and orally defend an acceptable thesis. An acceptable thesis is defined as one representing an original contribution in the atmospheric science of sufficient caliber for publication in a peer-reviewed journal.

## Time Limit

Entering full-time students without deficiencies are expected to complete all degree requirements within two years of first enrollment. All degree requirements must be completed within five years of first enrollment.

## Contact Information

### Atmospheric Science

School of Freshwater Sciences  
600 E Greenfield Avenue  
Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/ms-atmospheric-science/>

## Atmospheric Science, PhD

Atmospheric Science faculty and graduate students engage in a wide range of atmospheric research, with specializations that include climate variability, numerical modeling, atmospheric dynamics, mesoscale and synoptic meteorology, air-pollution meteorology, and data analytics. Our program is an excellent place for graduate study because of our research excellence, close collaboration between faculty and students, friendly environment, and open-door policy for questions.

The Atmospheric Science Ph.D. program is designed to equip students with the ability to conduct independent, cutting-edge research that advances our understanding of weather and climate. Students become adept at applying existing and developing novel theory and methods to generate this knowledge. They gain broad knowledge of fundamental tenets of the atmospheric sciences and advanced knowledge within their chosen research specialization. The Ph.D. program typically requires 3-4 years to complete for students entering with an M.S. in Atmospheric Science or a related discipline. Students are typically supported as either Research or Teaching Assistantships.

Though it can be intimidating to do so, we highly encourage all prospective graduate students to reach out to the faculty members who do research in the areas of greatest interest to you. This does not have to be very formal: an e-mail that introduces yourself and lets us know that you are interested in learning more about our graduate programs is a great starting point! Reaching out helps you get more information about our program, learn more about potential research opportunities, start to determine if one of us would be a good fit for you as a mentor, and ask any questions about the application process that you might have.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students seeking admission to the PhD in Atmospheric Science degree program must meet all UWM Graduate School requirements. An earned Master of Science degree is not a prerequisite for admission; however, it is expected that most applicants will have an earned master of science degree in atmospheric science or a closely-related discipline.

Entering students without an earned master of science degree should have a general background in both physics and mathematics, including

calculus and ordinary differential equations. Students who lack this background may be admitted if the deficiencies amount to no more than two courses, and deficiencies must be made up within three enrolled semesters of graduate study.

Applicants are required to submit a Reason Statement. Statements are used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. Your reason statement should include:

1. your reasons for pursuing graduate study
2. your specific background interests and background in the field
3. any relevant skills or training you've acquired
4. any academic awards or honors you have received
5. the name(s) of faculty members with whom your research interests most closely align

### Optional

Submission of scores on the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>).

## Credits and Courses

Students enrolled in the PhD in Atmospheric Science program must complete a total of fifty-four (54) graduate credits beyond the bachelor's degree with at least twenty-one (21) earned in residence at UWM.

Students receiving financial support from the School of Freshwater Sciences must enroll in a minimum of fifteen (15) credits offered by the School during each academic year. As part of their 54 credits, students admitted directly to the PhD program without an earned Master of Science in Atmospheric Science must complete the following twenty-one (21) credits:

Code	Title	Credits
Select 9 credits at or above the ATM SCI or FRSHWTR 700-level		9
Select 6 credits in approved graduate elective courses		6
Select one of the following:		6
MATH 703 & MATH 704	Advanced Engineering Mathematics I and Advanced Engineering Mathematics II	
ATM SCI 500 & ATM SCI 700	Statistical Methods in Atmospheric Sciences and Statistical Methods in Atmospheric Sciences II: Signal Detection	
<b>Total Credits</b>		<b>21</b>

Students admitted to the PhD program with an earned Master of Science in Atmospheric Science from UWM or elsewhere have fulfilled these requirements. In consultation with their major professor, students are expected to identify additional graduate courses that benefit their research or professional development. It is expected that most students will elect to supplement their formal Atmospheric Science coursework with formal coursework from other curricular areas. With the approval of the student's major professor, any graduate-level course at UWM may fulfill degree requirements. Assuming an earned MS degree, a typical PhD student's curriculum will consist of twelve credits of formal graduate coursework, at least half of which will be completed at the 700-level or above; three credits of ATM SCI 999; and nine to twelve credits of ATM SCI 998.

Code	Title	Credits
	Master's degree/pre-doctoral coursework	30
	Formal graduate coursework, at least half of which will be completed at the 700-level or above	12
	Additional approved courses, including 9-12 credits of ATM SCI 998	12
<b>Total Credits</b>		<b>54</b>

Courses in Atmospheric Science that may be taken for graduate credit are listed below.

Code	Title	Credits
ATM SCI 330	Air-Pollution Meteorology	3
ATM SCI 350	Atmospheric Thermodynamics	3
ATM SCI 351	Dynamic Meteorology I	3
ATM SCI 352	Dynamic Meteorology II	3
ATM SCI 360	Synoptic Meteorology I	4
ATM SCI 361	Synoptic Meteorology II	4
ATM SCI 460	Mesoscale Circulations	3
ATM SCI 464	Physical Meteorology: Cloud Physics	3
ATM SCI 470	Tropical Meteorology	3
ATM SCI 480	The General Circulation and Climate Dynamics	3
ATM SCI 497	Study Abroad: (subtitled)	3
ATM SCI 500	Statistical Methods in Atmospheric Sciences	3
ATM SCI 505	Micrometeorology	3
ATM SCI 511	Seminar in Atmospheric Radiation and Remote Sensing	3
ATM SCI 600	Data Analytics	3
ATM SCI 690	Seminar in Atmospheric Sciences:	3
ATM SCI 700	Statistical Methods in Atmospheric Sciences II: Signal Detection	3
ATM SCI 705	Air Pollution Modeling	3
ATM SCI 711	Cloud Dynamics	3
ATM SCI 730	Numerical Weather Prediction	3
ATM SCI 750	Nonlinear Time Series Analysis	3
ATM SCI 761	Advanced Synoptic/Mesoscale Meteorology	3
ATM SCI 950	Seminar on Topics in Atmospheric Sciences:	3
ATM SCI 990	Master's Thesis	1-8
ATM SCI 997	Doctoral Externship	1-12
ATM SCI 998	Doctoral Dissertation	1-12
ATM SCI 999	Advanced Independent Reading	1-4

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

### Preliminary Examination

To qualify for dissertator status, students must successfully pass a preliminary examination in Atmospheric Science, focusing on three sub-disciplines of the field, and complete a dissertation proposal

hearing. With approval of their major professor, students may elect to substitute an area of mathematics for one of the three Atmospheric Science sub-disciplines on the preliminary examination. The preliminary examination must be attempted prior to the start of the third year of study, and students who fail the examination are permitted one retake. The preliminary examination and dissertation proposal hearing must both be completed no later than the end of the fourth year of study.

## Dissertation

To receive the degree, students, under the direction of a major professor and supervision of a five-member evaluation committee, must complete and successfully defend a dissertation representing an original contribution to the field of sufficient caliber for publication in a peer-reviewed journal. The evaluation committee is to be comprised of four Atmospheric Science graduate faculty members and one member external to the program.

## Time Limit

Entering full-time students with an earned Master of Science degree are expected to complete all degree requirements within three to four years of first enrollment. Entering full-time students without an earned Master of Science degree are expected to complete all degree requirements within five to six years of first enrollment. All degree requirements must be completed within ten years of first enrollment, consistent with UWM's campus-wide policy.

## Contact Information

### Atmospheric Science

School of Freshwater Sciences  
600 E Greenfield Avenue  
Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/phd-atmospheric-science/>

# Freshwater Sciences, BS: Aquatic Science

Freshwater scientists provide scientifically sound management of natural and constructed water systems for productive and equitable use while sustaining natural biota, diversity and freshwater availability. They also generate solutions to the problems facing freshwater through a complete understanding of water resources, the social systems in which they operate, and the application of technology, conservation, and sustainable management practices. Students take a broad curriculum within Freshwater Sciences and choose from the Water Policy or Aquatic Sciences track. Both tracks combine core classes in natural sciences, mathematics, economics and computer science with additional coursework in areas such as sustainability and environmental law.

Studies in Freshwater Sciences will help students prepare for careers in ecological and environmental sciences, natural resources, technology, and policy relevant to freshwater systems and resources. A degree in Freshwater Sciences also prepares students for professional careers in business and industry, government, non-profit organizations, as well as graduate studies in freshwater and environmental sciences.

## Requirements

Students must earn a minimum of 120 credits to complete the BS in Freshwater Sciences degree. Students in this program must complete at least 30 credits in residence at UWM and must maintain an average of at

least 2.00 in all 300-level and above courses in the freshwater sciences major.

## General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 30) that must be met in order to earn a bachelor's degree. Some of the requirements of your program, including Foundation Courses, fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

## Foundation Courses

Code	Title	Credits
BIO SCI 150	Foundations of Biological Sciences I (satisfies GER-NS+)	4
BIO SCI 152	Foundations of Biological Sciences II (satisfies GER-NS+)	4
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
COMPSCI 202	Introductory Programming Using Python	3
ECON 103	Principles of Microeconomics (satisfies GER-SS)	3
MTHSTAT 215	Elementary Statistical Analysis (satisfies QL-B)	3
MATH 213	Calculus with Life Sciences Applications	4
or MATH 231	Calculus and Analytic Geometry I	
<b>Total Credits</b>		<b>31</b>

## Core Courses

Code	Title	Credits
FRSHWTR 101	Elements of Water	3
FRSHWTR 120	Preparing for a Career in Freshwater Sciences	1
FRSHWTR 201	The Water Environment	3
FRSHWTR 202	Life in Water	4
FRSHWTR 391	Water and Natural Resource Economics	3
FRSHWTR 392	Water, Energy, Food, and Climate	3
FRSHWTR 361	Introduction to Environmental Data Systems	3
Select one of the following:		3-4
FRSHWTR 464	Chemical Hydrogeology	
GEO SCI 400	Water Quality	
GEO SCI 562	Environmental Surface Hydrology	
FRSHWTR 660	Professional and Capstone Planning	1
or FRSHWTR 662	Thesis Research Planning and Proposal Development	
FRSHWTR 661	Undergraduate Capstone	3
or FRSHWTR 663	Undergraduate Research and Thesis	
GEOG 215	Introduction to Geographic Information Science	3
<b>Total Credits</b>		<b>30-31</b>

## Aquatic Science Track Requirements

Code	Title	Credits
<b>Required Courses</b>		
PHYSICS 120 or PHYSICS 209	General Physics I (Non-Calculus Treatment) Physics I (Calculus Treatment)	4
<b>Electives</b>		
Choose at least 9 credits from the following list, including at least 3 FRSHWTR credits:		9
FRSHWTR 300	Topics in Freshwater Sciences:	
FRSHWTR 321	Exploration of Inland Seas	
FRSHWTR 322	Ecology and Evolution of Freshwater Organisms	
FRSHWTR 341	Sanitation and Sustainability	
FRSHWTR 342	Water Pollution, Technology and Management	
FRSHWTR 362	Calculating Nature	
FRSHWTR 421	Molecular Level Tools to Understand Larger Scale Change	
FRSHWTR 471	Introduction to Sensing Networks	
FRSHWTR 511	Ichthyology	
FRSHWTR 512	Freshwater Sciences Practicum: (Topic: Brew City Aquaponics)	
FRSHWTR 513	Field Experimentation and Analysis in Freshwater Sciences	
FRSHWTR 514	Analytical Techniques in Freshwater Sciences	
FRSHWTR 524	Introduction to Stable and Radioactive Isotopes	
FRSHWTR 563	Finfish Aquaculture and Nutrition Principles	
FRSHWTR 567	Fish Health	
ATM SCI 240	Introduction to Meteorology	
ATM SCI 600	Data Analytics	
BIO SCI 310	General Ecology	
BIO SCI 406	Marine Biology	
BIO SCI 505	Conservation Biology	
BIO SCI 512	Limnology I	
CES 651	Principles of Stream Management and Restoration	
CIV ENG 311	Introduction to Energy, Environment and Sustainability	
GEOG 403	Remote Sensing: Environmental and Land Use Analysis	
GEOG 415	Hydrogeography	
GEOG 515	Watershed Analysis and Modeling	
GEOG 525	Geographic Information Science	
GEO SCI 400	Water Quality	
GEO SCI 463	Physical Hydrogeology	
MATH 305	Introduction to Mathematical and Computational Modeling	

PH 303

Climate Change, the Environment and Human Health

**Total Credits****13**

### Electives

With the help of their academic advisor, students will select electives to complete the 120 total credits required for the degree. Electives are tailored to each student's interests and career goals. Students may choose a related area of specialization outside of the Freshwater Sciences by completing any minor or interdisciplinary certificate offered by UWM, typically comprised of 18-22 credits. In some cases, students may choose to study two related areas, or they may complement a certificate or minor with other courses of interest.

## Aquatic Science Example Pathway

### Year 1

Semester 1		Credits
FRSHWTR 120	Preparing for a Career in Freshwater Sciences	1
CHEM 100	Chemical Science	4
MATH 105	Introduction to College Algebra (QLA)	3
ENGLISH 101	Introduction to College Writing	3
Humanities GER		3
<b>Credits</b>		<b>14</b>

### Semester 2

FRSHWTR 101	Elements of Water	3
CHEM 102	General Chemistry	5
MATH 115	Precalculus	4
BIO SCI 150	Foundations of Biological Sciences I	4
<b>Credits</b>		<b>16</b>

### Year 2

#### Semester 3

FRSHWTR 202	Life in Water	4
CHEM 104	General Chemistry and Qualitative Analysis	5
MATH 213	Calculus with Life Sciences Applications	4
BIO SCI 152	Foundations of Biological Sciences II	4
<b>Credits</b>		<b>17</b>

#### Semester 4

FRSHWTR 201	The Water Environment	3
ENGLISH 102	College Writing and Research	3
MTHSTAT 215	Elementary Statistical Analysis (QLB)	3
1st semester World Language		4
Arts GER		3
<b>Credits</b>		<b>16</b>

### Year 3

#### Semester 5

ECON 103	Principles of Microeconomics (SS)	3
COMPSCI 202	Introductory Programming Using Python	3
FRSHWTR 361	Introduction to Environmental Data Systems	3
2nd semester World Language		3
GER OWC-B		3
<b>Credits</b>		<b>15</b>

#### Semester 6

FRSHWTR 392	Water, Energy, Food, and Climate	3
FRSHWTR 391	Water and Natural Resource Economics	3
PHYSICS 120	General Physics I (Non-Calculus Treatment)	4
FRSHWTR 464	Chemical Hydrogeology	4
<b>Credits</b>		<b>14</b>

### Year 4

#### Semester 7

FRSHWTR 660	Professional and Capstone Planning	1
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GEOG 215	Introduction to Geographic Information Science	3
AS Elective		3
AS Elective		3
Humanities GER		3
Additional Elective		3
<b>Credits</b>		<b>16</b>
<b>Semester 8</b>		
FRSHWTR 661	Undergraduate Capstone	3
Social Science GER		3
AS Elective		3
Cultural Diversity GER		3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>120</b>

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## School of Freshwater Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Contact Information

**Freshwater Sciences**  
 School of Freshwater Sciences  
 600 E. Greenfield Avenue  
 Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/freshwater-sciences/>

## Freshwater Sciences, BS: Water Policy

Freshwater scientists provide scientifically sound management of natural and constructed water systems for productive and equitable use while sustaining natural biota, diversity and freshwater availability. They also generate solutions to the problems facing freshwater through a complete understanding of water resources, the social systems in

which they operate, and the application of technology, conservation, and sustainable management practices. Students take a broad curriculum within Freshwater Sciences and choose from the Water Policy or Aquatic Sciences track. Both tracks combine core classes in natural sciences, mathematics, economics and computer science with additional coursework in areas such as sustainability and environmental law.

Studies in Freshwater Sciences will help students prepare for careers in ecological and environmental sciences, natural resources, technology, and policy relevant to freshwater systems and resources. A degree in Freshwater Sciences also prepares students for professional careers in business and industry, government, non-profit organizations, as well as graduate studies in freshwater and environmental sciences.

## Requirements

Students must earn a minimum of 120 credits to complete the BS in Freshwater Sciences degree. Students in this program must complete at least 30 credits in residence at UWM and must maintain an average of at least 2.00 in all 300-level and above courses in the freshwater sciences major.

### General Education Requirements (GERs)

UW-Milwaukee has General Education Requirements (p. 30) that must be met in order to earn a bachelor's degree. Some of the requirements of your program, including Foundation Courses, fulfill the campus GERs. Please review the requirements and consult with your academic advisor.

### Foundation Courses

Code	Title	Credits
BIO SCI 150	Foundations of Biological Sciences I (satisfies GER-NS+)	4
BIO SCI 152	Foundations of Biological Sciences II (satisfies GER-NS+)	4
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
COMPSCI 202	Introductory Programming Using Python	3
ECON 103	Principles of Microeconomics (satisfies GER-SS)	3
MTHSTAT 215	Elementary Statistical Analysis (satisfies QL-B)	3
MATH 213 or MATH 231	Calculus with Life Sciences Applications Calculus and Analytic Geometry I	4
<b>Total Credits</b>		<b>31</b>

### Core Courses

Code	Title	Credits
FRSHWTR 101	Elements of Water	3
FRSHWTR 120	Preparing for a Career in Freshwater Sciences	1
FRSHWTR 201	The Water Environment	3
FRSHWTR 202	Life in Water	4
FRSHWTR 391	Water and Natural Resource Economics	3
FRSHWTR 392	Water, Energy, Food, and Climate	3
FRSHWTR 361	Introduction to Environmental Data Systems	3

Select one of the following:		3-4
FRSHWTR 464	Chemical Hydrogeology	
GEO SCI 400	Water Quality	
GEO SCI 562	Environmental Surface Hydrology	
FRSHWTR 660 or FRSHWTR 662	Professional and Capstone Planning Thesis Research Planning and Proposal Development	1
FRSHWTR 661 or FRSHWTR 663	Undergraduate Capstone Undergraduate Research and Thesis	3
GEOG 215	Introduction to Geographic Information Science	3
<b>Total Credits</b>		<b>30-31</b>

## Water Policy Track Requirements

Code	Title	Credits
<b>Required Courses</b>		
FRSHWTR 393	Water Law, Policy, and the Environment	3
<b>Electives</b>		
Choose at least 9 credits from the following list, including at least 3 FRSHWTR credits:		9
FRSHWTR 300	Topics in Freshwater Sciences:	
FRSHWTR 461	Politics and Policy of Sustainability	
FRSHWTR 510	Economics, Policy and Management of Water	
FRSHWTR 583	Cost-Benefit Analysis for Environmental Resource Decisions	
FRSHWTR 584	Aquatic Ecosystem Services Valuation	
FRSHWTR 585	Applied Water Statistics and Data Manipulation	
POL SCI 216	Environmental Politics	
ATM SCI 600	Data Analytics	
GEOG 525	Geographic Information Science	
GEOG 625	Intermediate Geographic Information Science	
ECON 210	Economic Statistics	
ECON 301	Intermediate Microeconomics	
ECON 310	Research Methods for Economics	
HIST 432	North American Environmental History	
<b>Total Credits</b>		<b>12</b>

### Electives

With the help of their academic advisor, students will select electives to complete the 120 total credits required for the degree. Electives are tailored to each student's interests and career goals. Students may choose a related area of specialization outside of the Freshwater Sciences by completing any minor or interdisciplinary certificate offered by UWM, typically comprised of 18-22 credits. In some cases, students may choose to study two related areas, or they may complement a certificate or minor with other courses of interest.

## Water Policy Example Pathway

Year 1		Credits
Semester 1		
FRSHWTR 120	Preparing for a Career in Freshwater Sciences	1
CHEM 100	Chemical Science	4

MATH 105	Introduction to College Algebra (QLA)	3
ENGLISH 101	Introduction to College Writing	3
Humanities GER		3
<b>Credits</b>		<b>14</b>
<b>Semester 2</b>		
FRSHWTR 101	Elements of Water	3
CHEM 102	General Chemistry	5
MATH 115	Precalculus	4
BIO SCI 150	Foundations of Biological Sciences I	4
<b>Credits</b>		<b>16</b>
<b>Year 2</b>		
<b>Semester 3</b>		
FRSHWTR 202	Life in Water	4
CHEM 104	General Chemistry and Qualitative Analysis	5
MATH 213	Calculus with Life Sciences Applications	4
BIO SCI 152	Foundations of Biological Sciences II	4
<b>Credits</b>		<b>17</b>
<b>Semester 4</b>		
FRSHWTR 201	The Water Environment	3
ENGLISH 102	College Writing and Research	3
1st semester World Language		4
MTHSTAT 215	Elementary Statistical Analysis (QLB)	3
Arts GER		3
<b>Credits</b>		<b>16</b>
<b>Year 3</b>		
<b>Semester 5</b>		
ECON 103	Principles of Microeconomics (SS)	3
COMPSCI 202	Introductory Programming Using Python	3
FRSHWTR 361	Introduction to Environmental Data Systems	3
FRSHWTR 393	Water Law, Policy, and the Environment	3
2nd semester World Language		4
<b>Credits</b>		<b>16</b>
<b>Semester 6</b>		
FRSHWTR 392	Water, Energy, Food, and Climate	3
FRSHWTR 391	Water and Natural Resource Economics	3
FRSHWTR 464	Chemical Hydrogeology	4
GER OWC-B		3
Social Science GER		3
<b>Credits</b>		<b>16</b>
<b>Year 4</b>		
<b>Semester 7</b>		
FRSHWTR 660	Professional and Capstone Planning	1
GEOG 215	Introduction to Geographic Information Science	3
WP Elective		3
WP Elective		3
Humanities GER		3
<b>Credits</b>		<b>13</b>
<b>Semester 8</b>		
FRSHWTR 661	Undergraduate Capstone	3
WP Elective		3
Additional Elective		3
Cultural Diversity GER		3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>120</b>

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## School of Freshwater Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Contact Information

**Freshwater Sciences**  
 School of Freshwater Sciences  
 600 E Greenfield Avenue  
 Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/freshwater-sciences/>

## Freshwater Sciences, Minor

Freshwater scientists provide scientifically sound management of natural and constructed water systems for productive and equitable use while sustaining natural biota, diversity and freshwater availability. They also generate solutions to the problems facing freshwater through a complete understanding of water resources, the social systems in which they operate, and the application of technology, conservation, and sustainable management practices.

Studies in Freshwater Sciences will help students prepare for careers in ecological and environmental sciences, natural resources, technology, policy, and business relevant to freshwater systems and resources. A minor in Freshwater Sciences also prepares students for professional careers in business and industry, government, non-profit organizations, as well as graduate studies in freshwater and environmental sciences.

## Requirements

At least 12 credits must be taken from courses listed 300 or above in residence at UWM. Students must maintain a GPA of 2.0 in minor courses attempted at UWM. In addition, students must attain a GPA of 2.0 in all minor courses attempted, including all transfer work. The minor consists of 18 credits in Freshwater Sciences.

Code	Title	Credits
Complete 6 credits from the following list:		6
FRSHWTR 101	Elements of Water	
FRSHWTR 201	The Water Environment	
FRSHWTR 202	Life in Water	
FRSHWTR 392	Water, Energy, Food, and Climate	
Choose 12 credits from the following electives:		12
FRSHWTR 300	Topics in Freshwater Sciences:	
FRSHWTR 321	Exploration of Inland Seas	
FRSHWTR 322	Ecology and Evolution of Freshwater Organisms	
FRSHWTR 341	Sanitation and Sustainability	
FRSHWTR 342	Water Pollution, Technology and Management	
FRSHWTR 361	Introduction to Environmental Data Systems	
FRSHWTR 362	Calculating Nature	
FRSHWTR 391	Water and Natural Resource Economics	
FRSHWTR 393	Water Law, Policy, and the Environment	
FRSHWTR 421	Molecular Level Tools to Understand Larger Scale Change	
FRSHWTR 461	Politics and Policy of Sustainability	
FRSHWTR 471	Introduction to Sensing Networks	
FRSHWTR 510	Economics, Policy and Management of Water	
FRSHWTR 583	Cost-Benefit Analysis for Environmental Resource Decisions	
FRSHWTR 584	Aquatic Ecosystem Services Valuation	
FRSHWTR 585	Applied Water Statistics and Data Manipulation	
<b>Total Credits</b>		<b>18</b>

## Contact Information

**Freshwater Sciences**  
 School of Freshwater Sciences  
 600 E Greenfield Avenue  
 Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/freshwater-sciences/>

## Freshwater Sciences, MS: Aquatic Science (Professional)

The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater Policy and Economics
- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management

of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills and experience to anticipate and address the freshwater issues of the future.

Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student's major professor.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### MS Aquatic Science (Professional) Admission Requirements

#### Prerequisite Coursework

The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following at the college level: chemistry, biological sciences, physics, and calculus.
2. One additional semester of chemistry, biological sciences, or physics.

Admission will be considered based upon the applicant's academic and/or professional background, proposed course of study, and possible additional coursework once in the degree program, should important preparatory gaps be identified.

#### Other Admission Requirements

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

- A bachelor's degree in biology, chemistry, economics, geosciences, mathematics, physics, public policy, or other appropriate natural science, social science or engineering discipline.
- A minimum GPA of 3.0.
- Three letters of recommendation from persons familiar with the applicant's scholarship and/or research potential.
- Submission of a Reason Statement. Statements are used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. Your reason statement should include:
  1. your reasons for pursuing graduate study
  2. your specific background interests and background in the field
  3. any relevant skills or training you've acquired
  4. any academic awards or honors you have received

5. the name(s) of faculty members with whom your research interests most closely align

## Credits and Courses

### MS Aquatic Science (Professional)

The minimum degree requirement for the MS Aquatic Science (Professional) track is 32 graduate credits.

Code	Title	Credits
<b>Required</b>		
FRSHWTR 502G	Aquatic Ecosystem Dynamics	3
FRSHWTR 504G	Quantitative Freshwater Analysis	3
FRSHWTR 513G	Field Experimentation and Analysis in Freshwater Sciences	3
FRSHWTR 514G	Analytical Techniques in Freshwater Sciences	3
FRSHWTR 810	Professional Development for Water Leaders	3
FRSHWTR 890	Science Communication	3
FRSHWTR 900	Colloquium in Freshwater Sciences	1
Select one of the following:		3
ATM SCI 500G	Statistical Methods in Atmospheric Sciences	
FRSHWTR 471G	Introduction to Sensing Networks	
FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	
FRSHWTR 510G	Economics, Policy and Management of Water	
FRSHWTR 585G	Applied Water Statistics and Data Manipulation	
<b>Electives</b>		
Select 9 credits in consultation with the students major advisor		9
<b>Graduate Internship</b>		
FRSHWTR 980	Graduate Internship	1
<b>Total Credits</b>		<b>32</b>

## Additional Requirements

### Major Professor as Advisor

Upon admission to the program, each student in the professional track will be assigned an initial advisor based on their background. The initial advisor will provide counseling to the students and help to identify goals and objectives of their graduate education. Students should identify their permanent advisor during the first semester in the program. The advisor will oversee the student's internship.

A plan of study is required and planned by the student in consultation with their advisor and the internship coordinators of the program. The plan of study identifies the planned courses and timeline for completion of the degree coursework and internship.

### Internship

All students in the professional science track are required to participate in an internship research experience, generally between the first and second years of the program. Internship experiences focus on complex regional, national, and global water problems and often involve authentic, practical problems in the field. The program coordinators provide resources and internship opportunities with industry, government, and non-profit

organizations. It is the responsibility of the student and advisor to identify the internship and the direct supervisor within a specific organization and submit a proposal that identifies goals and objectives of the internship. Proposals will be reviewed and approved by the advisor. Alternatively, a group project may occur in lieu of an internship and should provide students with training and experience in performing professional-level work that involves managing group dynamics and applying technical expertise to solve complex, multidisciplinary water-related problems.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

### Contact Information

#### Freshwater Sciences

School of Freshwater Sciences  
600 E Greenfield Avenue  
Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/freshwater-sciences-technology-masters-professional-track/>

## Freshwater Sciences, MS: Aquatic Science (Thesis)

The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater Policy and Economics
- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills and experience to anticipate and address the freshwater issues of the future.

Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student's major professor.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### MS Aquatic Science (Thesis) Admission Requirements

#### Prerequisite Coursework

The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following at the college level: chemistry, biological sciences, physics, and calculus.
2. One additional semester of chemistry, biological sciences, or physics.

Admission will be considered based upon the applicant's academic and/or professional background, proposed course of study, and possible additional coursework once in the degree program, should important preparatory gaps be identified.

#### Other Admission Requirements

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

- A bachelor's degree in biology, chemistry, economics, geosciences, mathematics, physics, public policy, or other appropriate natural science, social science or engineering discipline.
- A minimum GPA of 3.0.
- Three letters of recommendation from persons familiar with the applicant's scholarship and/or research potential.
- Submission of a Reason Statement. Statements are used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. Your reason statement should include:
  1. your reasons for pursuing graduate study
  2. your specific background interests and background in the field
  3. any relevant skills or training you've acquired
  4. any academic awards or honors you have received
  5. the name(s) of faculty members with whom your research interests most closely align
- Strongly recommended: Submission of scores on the General Test of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>).

## Credits and Courses

### MS Aquatic Science (Thesis)

Minimum degree requirement is 31 graduate credits.

Code	Title	Credits
<b>Choose three of the following:</b>		<b>9</b>
FRSHWTR 502	Aquatic Ecosystem Dynamics	
FRSHWTR 504	Quantitative Freshwater Analysis	
FRSHWTR 506	Environmental Health of Freshwater Ecosystems	

FRSHWTR 510	Economics, Policy and Management of Water	
<b>Choose one of the following:</b>		<b>3</b>
FRSHWTR 513	Field Experimentation and Analysis in Freshwater Sciences	
FRSHWTR 514	Analytical Techniques in Freshwater Sciences	
<b>Required courses</b>		
FRSHWTR 890	Science Communication	3
FRSHWTR 900	Colloquium in Freshwater Sciences	1
<b>Electives</b>		
Select 9 credits in consultation with the students major advisor		9
<b>Master's Research and Thesis Credits</b>		
FRSHWTR 985	Master's Research and Thesis (Up to 6 credits)	6
<b>Total Credits</b>		<b>31</b>

## Additional Requirements

### Major Professor as Advisor

Students in the thesis track must be accepted by a faculty member who will serve as the initial major professor, and be primarily responsible for matriculation. Acceptance or agreement by a faculty member does not constitute formal acceptance into the School of Freshwater Sciences. Prospective thesis-track students are strongly encouraged to communicate with the prospective major professors early in the admission process. A plan of study is required that identifies the planned courses and timeline for completion of the degree. For the thesis track, this includes coursework and proposed research and is planned by the student in consultation with the major professor and must be approved by the Thesis Advisory Committee.

### Thesis Advisory Committee

The membership of the Thesis Advisory Committee should be established by the end of the student's first semester. The Committee must consist of three members including the M.S. student's advisor as chair (or co-advisors as co-chairs who are graduate faculty members from the School of Freshwater Sciences) and at least two additional members, one of whom must come from outside the student's research focus. Consideration will be given to the inclusion of one external, non-UWM member of the committee. If included as part of the committee, this person would participate in the thesis defense examination. The Committee must meet at least once a year to monitor the student's academic and research progress.

### Proposal Defense and Preliminary Oral Examination

The student must complete a formal oral defense of their written thesis proposal. This defense should be made before the end the third semester and will also serve as the preliminary oral examination. The Thesis Committee decides by simple majority whether the student passes, fails, or must repeat the examination or defense. At the discretion of the Committee, a student who fails the defense or examination may be allowed one additional attempt at successful completion.

### Thesis

The thesis is conducted with oversight from the student's Advisory Committee. The thesis research is expected to be of a caliber sufficient for publication in a peer-reviewed journal. Satisfactory completion of the

thesis, including successful defense, is required for graduation. Up to six credits may be awarded for thesis research.

Please see the Graduate School thesis and dissertation formatting requirements (<https://uwm.edu/graduateschool/gradresources/thesis-and-dissertation-formatting/>) for further information.

### Thesis Defense

The thesis defense is a public presentation of the thesis research followed by an oral defense administered by the Advisory Committee.

### Time Limit

All degree requirements must be completed within five years of initial enrollment.

### Contact Information

**Freshwater Sciences**  
School of Freshwater Sciences  
600 E Greenfield Avenue  
Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/freshwater-sciences-technology-masters/>

## Freshwater Sciences, MS: Water Policy (Professional)

The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater Policy and Economics
- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills and experience to anticipate and address the freshwater issues of the future.

Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student's major professor.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## MS Water Policy (Professional) Admission Requirements

### Prerequisite Coursework

The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following at the college level: chemistry, biological sciences, microeconomics, statistics, political science, and advanced algebra or calculus.
2. One additional semester of statistics, microeconomics, geographic information system, chemistry, or biological sciences.

Admission will be considered based upon the applicant's academic and/or professional background, proposed course of study, and possible additional coursework once in the degree program, should important preparatory gaps be identified.

### Other Admission Requirements

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

- A bachelor's degree in economics, environmental policy, political science, public policy, journalism/communications, biology, or other appropriate natural science, social science, or engineering discipline.
- A minimum GPA of 3.0.
- Three letters of recommendation from persons familiar with the applicant's scholarship and/or research potential.
- Submission of a Reason Statement. Statements are used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. Your reason statement should include:

1. your reasons for pursuing graduate study
2. your specific background interests and background in the field
3. any relevant skills or training you've acquired
4. any academic awards or honors you have received
5. the name(s) of faculty members with whom your research interests most closely align

## Credits and Courses

### MS Water Policy (Professional)

The minimum degree requirement for the MS Water Policy (Professional) track is 32 graduate credits.

Code	Title	Credits
<b>Required</b>		
FRSHWTR 510G	Economics, Policy and Management of Water	3
FRSHWTR 585G	Applied Water Statistics and Data Manipulation <sup>1</sup>	3
or ATM SCI 500	Statistical Methods in Atmospheric Sciences	
FRSHWTR 781	Water Law for Scientists and Policy Makers	3
FRSHWTR 810	Professional Development for Water Leaders	3

FRSHWTR 890	Science Communication	3
FRSHWTR 900	Colloquium in Freshwater Sciences	1
Select one of the following:		3
FRSHWTR 471G	Introduction to Sensing Networks	
FRSHWTR 502G	Aquatic Ecosystem Dynamics	
FRSHWTR 504G	Quantitative Freshwater Analysis	
FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	

### Electives

Select 12 credits in consultation with the students major advisor	12
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### Graduate Internship

FRSHWTR 980	Graduate Internship	1
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<b>Total Credits</b>	<b>32</b>
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<sup>1</sup> ECON 413G if needed in an "off" year.

## Additional Requirements

### Major Professor as Advisor

Upon admission to the program, each student in the professional track will be assigned an initial advisor based on their background. The initial advisor will provide counseling to the students and help to identify goals and objectives of their graduate education. Students should identify their permanent advisor during the first semester in the program. The advisor will oversee the student's internship.

A plan of study is required and planned by the student in consultation with their advisor and the internship coordinators of the program. The plan of study identifies the planned courses and timeline for completion of the degree coursework and internship.

### Internship

All students in the professional science track are required to participate in an internship research experience, generally between the first and second years of the program. Internship experiences focus on complex regional, national, and global water problems and often involve authentic, practical problems in the field. The program coordinators provide resources and internship opportunities with industry, government, and non-profit organizations. It is the responsibility of the student and advisor to identify the internship and the direct supervisor within a specific organization and submit a proposal that identifies goals and objectives of the internship. Proposals will be reviewed and approved by the advisor. Alternatively, a group project may occur in lieu of an internship and should provide students with training and experience in performing professional-level work that involves managing group dynamics and applying technical expertise to solve complex, multidisciplinary water-related problems.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Contact Information

**Freshwater Sciences**  
 School of Freshwater Sciences  
 600 E Greenfield Avenue

Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/ms-freshwater-sciences-technology-professional-track-water-policy/>

## Freshwater Sciences, MS: Water Policy (Thesis)

The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater Policy and Economics
- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills and experience to anticipate and address the freshwater issues of the future.

Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student's major professor.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### MS Water Policy (Thesis) Admission Requirements

#### Prerequisite Coursework

The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following at the college level: chemistry, biological sciences, physics, calculus, microeconomics, statistics, political science or advanced algebra.
2. One additional semester of chemistry, biological sciences, physics, microeconomics, Geographic information systems, or statistics.

Admission will be considered based upon the applicant's academic and/or professional background, proposed course of study, and possible

additional coursework once in the degree program, should important preparatory gaps be identified.

### Other Admission Requirements

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

- A bachelor's degree in biology, chemistry, economics, geosciences, mathematics, physics, public policy, or other appropriate natural science, social science or engineering discipline.
- A minimum GPA of 3.0.
- Three letters of recommendation from persons familiar with the applicant's scholarship and/or research potential.
- Submission of a Reason Statement. Statements are used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. Your reason statement should include:
  1. your reasons for pursuing graduate study
  2. your specific background interests and background in the field
  3. any relevant skills or training you've acquired
  4. any academic awards or honors you have received
  5. the name(s) of faculty members with whom your research interests most closely align
- Strongly recommended: Submission of scores on the General Test of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>).

## Credits and Courses

### MS Water Policy (Thesis)

Minimum degree requirement is 31 graduate credits.

Code	Title	Credits
<b>Required courses</b>		
FRSHWTR 585G	Applied Water Statistics and Data Manipulation <sup>1</sup>	3
or ATM SCI 500G	Statistical Methods in Atmospheric Sciences	
FRSHWTR 781	Water Law for Scientists and Policy Makers	3
FRSHWTR 890	Science Communication	3
FRSHWTR 900	Colloquium in Freshwater Sciences	1
<b>Choose one of the following four courses:</b>		<b>3</b>
FRSHWTR 502G	Aquatic Ecosystem Dynamics	
FRSHWTR 504G	Quantitative Freshwater Analysis	
FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	
FRSHWTR 583G	Cost-Benefit Analysis for Environmental Resource Decisions	
<b>Master's Research and Thesis Credits</b>		
FRSHWTR 985	Master's Research and Thesis (Up to 6 credits)	6

#### Electives



Select 12 credits in consultation with the students major advisor	12
<b>Total Credits</b>	<b>31</b>

<sup>1</sup> ECON 413G if needed in an "off" year.

## Additional Requirements

### Major Professor as Advisor

Students in the thesis track must be accepted by a faculty member who will serve as the initial major professor, and be primarily responsible for matriculation. Acceptance or agreement by a faculty member does not constitute formal acceptance into the School of Freshwater Sciences. Prospective thesis-track students are strongly encouraged to communicate with the prospective major professors early in the admission process. A plan of study is required that identifies the planned courses and timeline for completion of the degree. For the thesis track, this includes coursework and proposed research and is planned by the student in consultation with the major professor and must be approved by the Thesis Advisory Committee.

### Thesis Advisory Committee

The membership of the Thesis Advisory Committee should be established by the end of the student's first semester. The Committee must consist of three members including the M.S. student's advisor as chair (or co-advisors as co-chairs who are graduate faculty members from the School of Freshwater Sciences) and at least two additional members, one of whom must come from outside the student's research focus. Consideration will be given to the inclusion of one external, non-UWM member of the committee. If included as part of the committee, this person would participate in the thesis defense examination. The Committee must meet at least once a year to monitor the student's academic and research progress.

### Proposal Defense and Preliminary Oral Examination

The student must complete a formal oral defense of their written thesis proposal. This defense should be made before the end the third semester and will also serve as the preliminary oral examination. The Thesis Committee decides by simple majority whether the student passes, fails, or must repeat the examination or defense. At the discretion of the Committee, a student who fails the defense or examination may be allowed one additional attempt at successful completion.

### Thesis

The thesis is conducted with oversight from the student's Advisory Committee. The thesis research is expected to be of a caliber sufficient for publication in a peer-reviewed journal. Satisfactory completion of the thesis, including successful defense, is required for graduation. Up to six credits may be awarded for thesis research.

Please see the Graduate School thesis and dissertation formatting requirements (<https://uwm.edu/graduateschool/gradresources/thesis-and-dissertation-formatting/>) for further information.

### Thesis Defense

The thesis defense is a public presentation of the thesis research followed by an oral defense administered by the Advisory Committee.

### Time Limit

All degree requirements must be completed within five years of initial enrollment.

## Contact Information

### Freshwater Sciences

School of Freshwater Sciences  
600 E Greenfield Avenue  
Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/ms-freshwater-sciences-technology-thesis-water-policy/>

## Freshwater Sciences, PhD

The School of Freshwater Sciences offers a graduate program of studies providing students with advanced training and education in four areas:

- Freshwater Policy and Economics
- Freshwater System Dynamics
- Human and Ecosystem Health
- Freshwater Technology

Each of these focus areas is interrelated with the others, and includes biologic, physical, technologic and policy aspects of freshwater.

The Master of Science program has two tracks designed to provide a strong foundation necessary for the training of graduates that will utilize novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. The Doctor of Philosophy program is a research degree designed to explore and discover novel approaches to the sustainable and equitable use and management of freshwater systems worldwide. These programs will create an interdisciplinary atmosphere for training the next generation of scientists armed with the knowledge, skills and experience to anticipate and address the freshwater issues of the future.

Timely application is encouraged for students seeking financial support. When applying for admission, applicants should describe as completely as possible their specific research interests within freshwater sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Freshwater Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student's major professor.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

#### Prerequisite Coursework

The following prerequisites are strongly recommended:

1. At least one semester coursework in three of the following four areas: chemistry, biological sciences, physics, and calculus.
2. One additional semester of chemistry, biological sciences, or physics.

Admission will be considered based upon the applicant's academic and/or professional background, proposed course of study, and possible additional coursework once in the degree program, should important preparatory gaps be identified.

## Other Requirements

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements to be considered for admission:

- A degree in biology, chemistry, economics, geosciences, mathematics, physics, public policy or other appropriate natural science, social science or engineering discipline.
- An undergraduate GPA of at least 3.0 (4.0 basis).
- Submission of scores on the General Test of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>).
- Three letters of recommendation from persons familiar with the applicant's scholarship, research achievements and potential.
- Submission of a Reason Statement. Statements are used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. Your reason statement should include:

1. your reasons for pursuing graduate study
2. your specific background interests and background in the field
3. any relevant skills or training you've acquired
4. any academic awards or honors you have received
5. the name(s) of faculty members with whom your research interests most closely align

A master's degree is not a prerequisite for admission to the PhD program.

Students in the PhD program must be accepted by a faculty member who will serve as the major professor, and be primarily responsible for matriculation. Acceptance or agreement by a faculty member does not constitute formal acceptance into the School of Freshwater Sciences. Applicants are strongly encouraged to communicate with prospective major professors early in the admission process.

## Reapplication

A student in the MS program, or who receives the master's degree at UWM, must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

## Credits and Courses

Students must earn 54 credits beyond the bachelor's degree, of which 24 credits may be taken from formal coursework completed as part of a master's degree. A minimum of 27 credits must be earned in residence at UWM. Students may take up to a maximum of 6 credits of independent study counting toward the degree.

Code	Title	Credits
<b>Required</b>		
FRSHWTR 585G	Applied Water Statistics and Data Manipulation	3
FRSHWTR 890	Science Communication	3
FRSHWTR 900	Colloquium in Freshwater Sciences (taken twice, 1 credit each)	2
<b>Select one of the following:</b>		<b>3</b>
FRSHWTR 502G	Aquatic Ecosystem Dynamics	
FRSHWTR 504G	Quantitative Freshwater Analysis	

FRSHWTR 506G	Environmental Health of Freshwater Ecosystems	
FRSHWTR 510G	Economics, Policy and Management of Water	
<b>Electives</b>		<b>15</b>
Select 15 credits in consultation with the students major professor		
<b>Research, Dissertation, Independent Study, or Remaining Electives<sup>1</sup></b>		<b>28</b>
FRSHWTR 990	Doctoral Research and Dissertation	
FRSHWTR 999	Independent Study	
<b>Total Credits</b>		<b>54</b>

<sup>1</sup> Electives may be selected in consultation with the student's major professor.

A Program of Study, including coursework and proposed research, is planned by the student in consultation with the major professor, and must be approved by the Committee. A student must present an annual progress report and an updated plan of study to their Doctoral Advisory Committee. For students entering with advanced degrees, some of the coursework may already be completed. Requests for counting previously taken courses toward the degree requirements will be evaluated on a case-by-case basis. A minimal grade point average of 3.00 must be earned in coursework, not including research or seminars.

## Additional Requirements

### Residence

The student must meet Graduate School residence requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>).

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. Appointment of a major professor will be based on compatibility between a student's preferred research area or area of specialization and a professor's area of specialization.

### PhD Advisory Committee

The membership of the PhD Advisory Committee will be established by the end of the student's first year. PhD committees must have at least four members, including the major professor. At least three of the committee members must be UWM graduate faculty, at least two of which are from the School of Freshwater Sciences. The committee must have at least one external member that possesses the appropriate expertise and is approved by the Academic Program and Curriculum Committee of the School of Freshwater Sciences. Dissertators are allowed a maximum of six committee members for the defense. The Committee must meet at least once a year to monitor and formally report to the faculty on the student's academic and research progress.

### Doctoral Preliminary Examination

The preliminary examination must be passed by the end of the second year for the student to continue in the program. Extensions of this deadline must be approved by the PhD Advisory Committee. The examination is in two parts: written and oral. The content of the examination is determined in advance by the student's Advisory Committee, and will include subject matter that is broadly related to the

area of research that the student will specialize in, as well as content related to the core courses. The Doctoral Committee decides by simple majority whether the student passes, fails, or must retake part or all of the examination. At the discretion of the Committee, a student who fails the examination may be allowed one additional attempt of all or part of the examination. After successful completion of the preliminary examination, the student concentrates on the development and execution of original research.

## **Dissertation Proposal Hearing**

Following successful completion of the doctoral preliminary examination, the student submits a written dissertation proposal to the student's PhD Advisory Committee. The proposal must be submitted within one semester of the successful completion of preliminary exams, and defended by the end of the following semester. Extensions of this deadline must be approved by the PhD Advisory Committee.

## **Dissertator Status**

Specific requirements which must be completed before the Graduate School places a doctoral student in dissertator status are described in the Doctor of Philosophy Degree (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>) requirements section.

## **Dissertation**

During the final year of study, the candidate must present a public seminar on the dissertation research and subsequently prepare and successfully defend a dissertation reporting the results of the candidate's research to the Committee. The original research findings embodied in this dissertation are expected to be accepted for publication in one or more refereed journals.

Please see the Graduate School thesis and dissertation formatting requirements for further information.

## **Dissertation Defense**

As the final step toward the degree the candidate must defend the dissertation before the PhD Advisory Committee.

## **Time Limit**

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

## **Contact Information**

### **Freshwater Sciences**

School of Freshwater Sciences  
600 E Greenfield Avenue  
Milwaukee, WI 53204

<https://uwm.edu/freshwater/academics/freshwater-sciences-doctoral/>

# GENERAL STUDIES (COLLEGE OF)

The College of General Studies serves as the academic home for the Associate of Arts and Sciences (AAS) degree at UW-Milwaukee. The AAS curriculum provides a general education core that serves as the foundation for bachelor's degree programs. The College offers courses at a branch location in Waukesha.

## Programs

- Liberal Arts, AAS (p. 693)

## Policies and Regulations

### Grade Appeal Policy

This grade appeal policy is based on the following principles: (1) the instructor has responsibility for assignment of grades; (2) students should be free from prejudicial or capricious grading; and, (3) no grade may be assigned or changed without departmental faculty authorization. The following steps constitute the procedure to be followed by a UW-Milwaukee College of General Studies student wishing to appeal a grade:

1. A grade appeal should normally be initiated within 30 days of receipt of the grade report. Prior to making a formal appeal, the student should check with the instructor to make sure that no clerical error has been made.
2. The student shall submit a written appeal to the instructor detailing the basis on which the student believes the grade ought to have been different. During this first phase of the process, the student and instructor might meet to discuss the basis for the grade, if both are willing to do so. The instructor shall normally respond in writing to the student within 30 days.
3. The student may continue the appeal process by submitting his/her case, including copies of all correspondence to date, to the chair of the appropriate academic department or, in the case of a conflict of interest, to a designee appointed by the department's executive committee. This must be done within 30 days of receiving a written response from the instructor, and the department chair or designee shall acknowledge the appeal in writing with a copy to the instructor.
4. Each department must have a review process and review body to adjudicate grade appeals. The review body should examine available information to determine if any of the following grounds for changing a grade are present: inconsistent treatment, procedural errors, capricious judgments, or use of inappropriate criteria. The review body may request additional information from the instructor or student and/or may ask to see copies of the student's work. The department shall conclude its review within 60 days. After first securing the endorsement of the department chair, the chair of the reviewing body shall inform the instructor and student of the outcome of the review with copies to the Department Chair, the Assistant Dean for Student Affairs, and the Associate Dean for Academic Affairs. If the review process finds with the student and a change in grade is recommended, the department chair or designee shall notify the instructor, discuss the findings and suggest that the instructor change the grade and so notify the student. Should the instructor decline to change the grade, the chair or designee shall forward the findings to the Associate Dean for Academic Affairs who

will implement the grade change. If the review upholds the original grade, the department chair or designee, having already endorsed the review body's report, need take no further action.

5. The student may appeal a decision upholding the original grade to the Associate Dean for Academic Affairs, who shall examine the record created by the departmental review body, and shall uphold the decision of that body unless he or she finds:
  - a. The evidence of record does not support the findings and recommendations of the departmental review body;
  - b. Established procedures were not followed by the departmental review body and material prejudicial to the student resulted;
  - c. The decision was based on factors proscribed by state or federal law regarding equal educational opportunities; or
  - d. The decision was arbitrary and capricious.

Should the review by the Associate Dean for Academic Affairs find any of the above, he or she will remand the appeal to the department for action consistent with the finding.

### Late Add/Drops

Requests to add or drop a class that are outside of University published deadlines must go through the campus Academic Actions Committee. Contact your respective Solution Center or advisor for more information.

### Overload/Maximum Credit Policy

The maximum credit load in a Spring or Fall term:

- 18 credits (undergraduates)

The fall and spring registration limit using PAWS is 18 credits for undergraduates. Students wishing to enroll in an overload must obtain approval from their school/college advising office on an Add/Drop form.

The maximum credit load in a Summer term:

- You may enroll in a total of 12 credits for the full duration of the summer sessions, but no more than four credits during any session less than or equal to four weeks

The summer registration limit using PAWS is 12 credits for undergraduates. Students wishing to enroll in an overload must obtain approval from their school/college advising office on an Add/Drop form.

The maximum credit load in UWinteriM:

- You may enroll in a total of 4 credits for the full duration of the UWinteriM session

The UWinteriM registration limit using PAWS is 4 credits for undergraduates and, due to the short duration of the term, overloads are generally not permitted. Degree-seeking students wishing to enroll in an overload due to exceptional circumstances must obtain approval from their school/college advising office on an Add/Drop form.

Non-degree/guest students wishing to enroll in an overload must appeal to the Registrar's Office and requests will be reviewed with academic departments and school/college administrators.

Approval for overload does not waive any course prerequisites or permit enrollment in closed classes. Forms must be submitted to Mellencamp Hall 274 after the student's initial registration appointment time, and will be processed by Registrar's Office staff.

## Retroactive Application for Graduation

Students who either 1) earned or were close to having their AAS degree under the UW Colleges and who have completed the requirements for the AAS, or 2) who, while pursuing a bachelor's degree at UW Milwaukee have completed coursework that satisfies the requirements of the AAS, can apply to have the AAS degree retroactively posted. This is for students who did not apply for graduation but met the degree requirements. Such students need to complete a Retroactive Application for Graduation. Student must submit any transcripts from institutions other than UWM, prior to earning the AAS degree.

## Taking a Class on the Main/Kenwood Campus

Special permission is required for branch campus students who need to take a class at the main/Kenwood campus. Students must contact their advisor in the College of General Studies and there must be a significant reason why the course needs to be taken while concurrently enrolled in CGS. Very few exceptions will be made. Courses taken at the main campus will carry the tuition rate for that course of the main campus.

## UW College Courses Online

UW College Courses Online offers more than 125 fully accredited online courses. Courses are taught by UW faculty and widely transferable. Online courses through UW College Courses Online can help you complete your Associate of Arts and Science degree (p. 693), earn a certificate, or fulfill requirements for other degree programs. See the UW College Courses Online website (<https://online.uwc.edu>) for more information.

## Honors Program

The College of General Studies Honors Program is a challenge extended to our best students. Through enriched course content and a closer association with professors and other honor students, the college experience is broadened and enhanced through research, creative thought and independent learning. Students who have participated felt they were better prepared for subsequent university work and the ability to earn an Honors Degree at a four-year campus.

### Who Qualifies?

This program is designed for highly motivated, above-average associate degree students who are new or continuing at UWM.

Those who are eligible have accomplished at least one of the following:

- Graduated in the top 15 percent of their high school class
- Been enrolled in the UW System for at least one semester and earned a minimum GPA of 3.5
- Have an ACT score of 27 or higher
- If you transfer from a college or university outside of the UW System, you may participate in the Honors Program if your GPA is 3.4 or above.

If you do not meet these criteria, you may appeal to the College of General Studies Academic Actions Committee for admission to the program.

Continuing students will be invited to participate in the program after completing 12 credits or more with a 3.5 GPA or better. To continue in the program students need to maintain a GPA of 3.25 or better each semester.

## Honors Awards

If you are in the Honors Program, you may earn an Associate of Arts and Sciences Degree (p. 693) with Honors. To do this, the following must be accomplished:

- Earn a cumulative grade point average of 3.25
- Complete the Associate of Arts and Sciences Degree requirements (p. 693)
- Earn a grade of "B" or better in 12 of the degree credits earned in honors courses
- Earn at least six of the 12 honors credits, across the humanities, fine arts, social sciences, and/or mathematics/natural sciences

Those who have met the Associate of Arts and Sciences Degree with Honors requirements, need to apply for the degree the semester prior to completion.

## Phi Theta Kappa

Honors students with a 3.5 or above cumulative grade point average might wish to join Phi Theta Kappa (PTK), a national two-year honor society. Eligible Students will receive an invitation to join PTK (<http://www.ptk.org/>).

## Transferring

Many UW System four-year campuses have honors programs to obtain a bachelor's degree with honors. Others campuses may have enrichment studies which do not earn a special degree.

## How To Register

You can apply online for the Honors Program (<https://uwm.edu/generalstudies/students/honors-program/>). For more information about the program, please e-mail [leme@uwm.edu](mailto:leme@uwm.edu) or write to:

Professor Ellyn Lem  
Professor of English  
UWM at Waukesha  
1500 N. University Drive  
Waukesha, WI 53188

Anyone may enroll in courses for honors credit, but students not in the Honors Program must have the consent of the class instructor. You can add honors after registration in the first two weeks of classes by getting the signature of the instructor. You can drop honors at any time before the end of the semester. If you want to take a course for honors even though it is not listed for honors credit, you often can arrange to take it for honors by consulting the professor.

## Liberal Arts, AAS

The Associate of Arts and Sciences (AAS) degree program is a great place for students to begin their college careers. It provides a strong foundation for many bachelor programs. This degree also shows employers that you possess essential employability qualities, such as critical thinking, problem solving, and effective communication skills.

The AAS program allows you to explore courses related to your intended major while completing the general education classes required for most bachelor's degrees. Many bachelor's degree programs consider students with an AAS degree to have satisfied their general education requirements.

The AAS program is also perfect for returning students who need to fill in gaps in their general education requirements from their previous college work.

Students can complete the AAS degree in-person, online, or through a combination of both types of courses. The degree is also offered as an online, flexible option (<https://flex.wisconsin.edu/degrees-programs/associate-degree-online/>). This allows you to earn the credits you need at your own pace, on your schedule, building on knowledge you already have.

## Requirements

A minimum of 60 credits is required. At least 36 of the 60 credits, or, at least 12 of the final 24 credits must be earned at UWM. Students must have a cumulative GPA of 2.0 in credits attempted at UWM.

The Associate of Arts and Sciences degree requires that core requirements in writing and mathematics be completed as well as a distribution of credits in breadth of knowledge categories. The breadth categories in the degree are defined on the General Education (p. 29) page.

Code	Title	Credits
<b>Core Requirements</b> <sup>1</sup>		
CGS ENG 102	Critical Writing, Reading, and Research	3
Choose one of the following:		3
CGS MAT 102	Mathematical Literacy for College Students II	
CGS MAT 103	Contemporary Applications of Mathematics	
CGS MAT 105	Introduction to College Algebra	
CGS MAT 108	Algebraic Literacy II	
CGS MAT 110	College Algebra	
CGS MAT 116	College Algebra	
CGS MAT 175	Mathematical Explorations for Elementary Teachers I	
CGS MAT 176	Mathematical Explorations for Elementary Teachers II	
CGS MAT 215	Elementary Statistical Analysis	
<b>Breadth Categories</b>		
<i>Arts and Humanities</i>		9
Must include:		
1 Arts course		
1 Humanities course		
<i>Mathematics and Natural Sciences</i>		11
Must include:		
8 credits in 2 Natural Science areas		
1 laboratory science course		
Remaining credits can be any MS or NS courses		
<i>Social Sciences</i>		9
Must include credits from at least 2 disciplines		
<i>Cultural Diversity</i>		3
Courses may be counted toward another breadth category		
<i>Applied Scholarship</i>		3
Courses may be counted toward another breadth category		
<b>Electives</b>		

A student who has met the core requirements and the other breadth category minimums may complete the 60 credit minimum requirement with courses in this category.

- <sup>1</sup> Students must achieve a grade of C or better or receive an exemption.
- Exemption from the Core Writing requirement can be achieved by submitting a portfolio of written work that demonstrates achievement of the English 102 learning outcomes. Only students who have achieved an appropriate score on the English Placement Test (or other appropriate test, as determined by the Arts and Humanities Department) are eligible.
  - Exemption from the Core Math requirement can be achieved by earning a placement code of at least 30 on the Mathematics Placement Test (or other appropriate test, as determined by the Math and Natural Sciences Department).

Courses used to satisfy the writing and mathematics requirements and their prerequisites may not be used to satisfy a breadth requirement except that:

- A student who earns credit in one of the sequences below with a grade of C or better in at least one of the courses may use the other course to satisfy part of the Mathematics and Natural Sciences breadth requirement.

Code	Title	Credits
CGS MAT 102 & CGS MAT 103	Mathematical Literacy for College Students II and Contemporary Applications of Mathematics	6
CGS MAT 102 & CGS MAT 105	Mathematical Literacy for College Students II and Introduction to College Algebra	6
CGS MAT 102 & CGS MAT 108	Mathematical Literacy for College Students II and Algebraic Literacy II	6
CGS MAT 102 & CGS MAT 110	Mathematical Literacy for College Students II and College Algebra	6
CGS MAT 102 & CGS MAT 116	Mathematical Literacy for College Students II and College Algebra	6
CGS MAT 103 & CGS MAT 105	Contemporary Applications of Mathematics and Introduction to College Algebra	6
CGS MAT 103 & CGS MAT 108	Contemporary Applications of Mathematics and Algebraic Literacy II	6
CGS MAT 103 & CGS MAT 110	Contemporary Applications of Mathematics and College Algebra	6
CGS MAT 103 & CGS MAT 116	Contemporary Applications of Mathematics and College Algebra	6
CGS MAT 105 & CGS MAT 116	Introduction to College Algebra and College Algebra	6
CGS MAT 108 & CGS MAT 116	Algebraic Literacy II and College Algebra	6

2. A student who earns a C or better in one of the courses below may use the course to satisfy part of the Mathematics and Natural Sciences breadth requirement.

Code	Title	Credits
CGS MAT 115	Precalculus	4
CGS MAT 124	Pre-Calculus Mathematics	5

## Emphases

Students pursuing the Associate of Arts and Sciences Degree (AAS) may elect to receive a degree with emphasis: a concentration of coursework in a given discipline or in more than one discipline, in the case of an interdisciplinary emphasis. Students seeking an Associate of Arts and Sciences Degree with an emphasis must successfully complete the AAS requirements and the specific emphasis requirements.

### Anthropology Emphasis

Code	Title	Credits
<b>Required Course</b>		
CGS ANT 100	Introduction to Anthropology	3
<b>Elective Courses</b>		
Choose 3 additional Anthropology courses:		9-11
CGS ANT 102	Discovering our Past: An Introduction to Archaeology and the Prehistoric World	
CGS ANT 104	Introduction to Cultural Anthropology	
CGS ANT 105	Introduction to Biological Anthropology	
CGS ANT 150	Food, Culture, and Identity	
CGS ANT 314	American Indian Societies and Cultures	
CGS ANT 343	Religion, Magic and Witchcraft	
CGS ANT 350	Introduction to Medical Anthropology: Health and Healing	
<b>Total Credits</b>		<b>12-14</b>

### Art Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS ART 101	Introduction to Drawing	6
CGS ART 112	Three-Dimensional Design	
Choose 1 of the following:		3
CGS ART 181	Survey: Ancient and Medieval Art	
CGS ART 183	Survey: Renaissance - Modern Art	
CGS ART 187	Survey: Modern Art	
CGS ART 188	Survey: Modern Architecture and Design	
Choose 1 of the following:		3
CGS ART 102	Intermediate Drawing	
CGS ART 111	Two-Dimensional Design	
CGS ART 121	Introduction to Painting	
CGS ART 131	Introduction to Sculpture	
CGS ART 141	Introduction to Printmaking	
CGS ART 154	Introduction to Ceramics	
CGS ART 161	Introduction to Photography (Required courses)	
<b>Total Credits</b>		<b>12</b>

### Biological Sciences Emphasis

Code	Title	Credits
<b>Required Courses</b>		
Biological Sciences (CGS BIO) course		3-5
Biological Sciences (CGS BIO) course with lab component		3-5
Biological Sciences (CGS BIO) course with lab component		3-5
Biological Sciences (CGS BIO) course with lab component		3-5
<b>Total Credits</b>		<b>12-20</b>

### Business Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS BUS/CGS ENG 210	Business Communication	3
CGS BUS 201	Introductory Accounting	4
CGS BUS 230	Introduction to Management Information Systems	3
CGS BUS/CGS ECO 243	Economic and Business Statistics	3
CGS ECO 203	Economics - Macro	3
CGS ECO 204	Economics - Micro	3
Choose 1 of the following courses:		3-4
CGS BUS 202	Intermediate Accounting	
CGS BUS 204	Managerial Accounting	
<b>Total Credits</b>		<b>22-23</b>

### Chemistry Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS CHE 145	General Chemistry I	5
CGS CHE 155	General Chemistry II	5
CGS CHE 343	Organic Chemistry I	3
CGS CHE 363	Organic Chemistry II	3
<b>Total Credits</b>		<b>16</b>

### Communication Arts Emphasis

Completion of the following courses will fulfill the requirements for this emphasis.

Code	Title	Credits
<b>Required Course</b>		
CGS CTA 103	Introduction to Public Speaking	3
<b>Elective Courses</b>		
Choose 9 credits from the following:		9
CGS CTA 101	Introduction to Interpersonal Communication	
CGS CTA 115	Introduction to Business and Professional Communication	
CGS CTA 150	Introduction to Film	
CGS CTA 201	Introduction to Mass Communication	
CGS CTA 210	Introduction to Intercultural Communication	
CGS CTA 218	Popular Culture in the Media	
CGS CTA 294	Internship in Communication and Theatre Arts	

CGS CTA 298	Topics in Speech and Dramatic Arts	
<b>Total Credits</b>		<b>12</b>

## Education Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS EDU 201	Concepts, Issues, and Field Experience in Education	3
CGS EDU 230	Educational Psychology	3-4
Choose 1 of the following:		3-4
CGS PSY 201	Introductory Psychology	
CGS PSY 202	Introductory Psychology	
CGS EDU 300	The Exceptional Individual	
Choose 1 of the following:		3
CGS PSY 250	Life Span Developmental Psychology	
CGS PSY 360	Psychology of Childhood and Adolescence	
CGS HIS 101	History of the United States: From the Era of the Columbian Exchange to the Era of the Civil War	
CGS HIS 102	History of the United States: From the Era of the Civil War to the Present	
CGS POL 104	American Government and Politics	
<b>Total Credits</b>		<b>12-14</b>

## Engineering Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS EGR 105	Engineering Fundamentals	3
CGS EGR 201	Statics	3
Choose a minimum of 1 of the following:		3-5
CGS EGR 203	Mechanics of Materials	
CGS CPS 245	Computer Science I: Object-Oriented Programming	
Choose a minimum of 2 of the following:		6
CGS EGR 110	Engineering Graphics with Computer Aided Drafting	
CGS EGR 202	Dynamics	
CGS EGR 282	Engineering Economics	
CGS ECO 204	Economics - Micro	
<b>Total Credits</b>		<b>15-17</b>

## Environmental Studies Emphasis

Code	Title	Credits
Choose one of the following:		
CGS CHE 125	Introductory Chemistry	4-5
CGS BIO 101	Concepts of Biology	
CGS BIO 150	Foundations of Biological Sciences I	
CGS CHE 145	General Chemistry I	
CGS GEO 123	Physical Geography: Weather and Climate	
Choose one of the following:		3-4
CGS BIO 191	Environmental Science	
CGS BIO 310	General Ecology	

CGS INT 283	Interdisciplinary Studies: Local Applications of Global Sustainability	
Choose one of the following:		3
CGS PHI 244	Environmental Ethics	
CGS INT 284	Interdisciplinary Studies: Understanding Our Environment	
CGS SOC 355	Sociology of the Environment	
Choose one of the following:		3
CGS MAT 117	Trigonometry	
CGS MAT 215	Elementary Statistical Analysis	
CGS PSY 210	Statistical Methods in Psychology	
CGS ECO 243	Economic and Business Statistics	
CGS ECO 101	Intro to Economics	
CGS ECO 203	Economics - Macro	
CGS ECO 204	Economics - Micro	
<b>Total Credits</b>		<b>13-15</b>

## Gender, Sexuality, and Women's Studies Emphasis

Code	Title	Credits
<b>Required Courses</b>		
Choose 1 of the following courses:		
CGS GSW 101	Introduction to Gender, Sexuality, and Women's Studies	
CGS GSW 102	Women's Voices	
<b>Elective Courses</b>		
Choose 3 of the following courses (note: CGS GSW 102 can be counted as an elective if CGS GSW 101 was also completed):		
CGS GSW 201	Introduction to LGBTQ Studies	
CGS GSW 202	Feminist Philosophy	
CGS GSW 203	Gender in Popular Culture	
CGS GSW 204	Introduction to Masculinities	
CGS GSW 210	Women's Health & Sexuality in Society	
CGS GSW 231	Sex, Power and Public Policy	
CGS GSW 279	Women Writers	
<b>Total Credits</b>		<b>12</b>

## Geography Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS GEO 123	Physical Geography: Weather and Climate	4-5
CGS GEO 124	Physical Geography: Landforms	4-5
Choose one of the following:		3
CGS GEO 101	Introduction to Cultural Geography	
CGS GEO 110	World Regional Geography	
<b>Elective Course - Student/Advisor choice</b>		
CGS GEO XXX (Any other CGS GEO course)		3-5
<b>Total Credits</b>		<b>14-18</b>

## Geosciences Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS GLG 102	Historical Geology	4-5



CGS GLG 101	Physical Geology	4-5
or CGS GLG 169	Environmental Geology	
Choose 2 of the following, but cannot use both CGS PHY 120 and CGS PHY 209		8-10
CGS CHE 145	General Chemistry I	
CGS MAT 221	Calculus and Analytical Geometry I	
CGS PHY 120	General Physics I (Non-Calculus Treatment)	
CGS PHY 209	Physics I (Calculus Treatment)	
<b>Total Credits</b>		<b>16-20</b>

### Health Sciences Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS BIO 101	Concepts of Biology	5
Choose 1 of the following courses:		4
CGS BIO 202	Anatomy and Physiology 1	
CGS BIO 203	Anatomy and Physiology 2	
Choose 1 of the following courses:		5
CGS CHE 125	Introductory Chemistry	
CGS CHE 145	General Chemistry I	
Choose 1 of the following courses:		2-5
CGS MAT 117	Trigonometry	
CGS MAT 215	Elementary Statistical Analysis	
CGS BIO 251	General Survey of Microbiology	
Choose 1 of the following courses:		3-4
CGS PSY 201	Introductory Psychology	
CGS PSY 202	Introductory Psychology	
<b>Total Credits</b>		<b>19-23</b>

### History Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS HIS 101	History of the United States: From the Era of the Columbian Exchange to the Era of the Civil War	3
CGS HIS 102	History of the United States: From the Era of the Civil War to the Present	3
Any 200-level CGS HIS course		3
Choose 1 of the following courses:		3
CGS HIS 105	History of Western Civilization from Ancient Times to the Era of the Renaissance	
CGS HIS 161	World History to 1500	
Choose 1 of the following courses:		3
CGS HIS 106	History of Western Civilization from the Era of the Renaissance to Contemporary Times	
CGS HIS 162	World History Since 1500	
<b>Total Credits</b>		<b>15</b>

### Literature Emphasis

Code	Title	Credits
<b>Elective Courses</b>		
English (CGS ENG) course numbered 242-289		3
English (CGS ENG) course numbered 242-289		3
English (CGS ENG) course numbered 242-289		3
English (CGS ENG) course numbered 242-289		3
<b>Total Credits</b>		<b>12</b>

### Mathematics Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS MAT 221	Calculus and Analytical Geometry I	5
CGS MAT 232	Calculus and Analytic Geometry II	4
CGS MAT 233	Calculus and Analytic Geometry III	4
<b>Elective Courses</b>		
Choose from the following titles:		3-5
CGS MAT 215	Elementary Statistical Analysis *	
CGS MAT 210	Topics in Finite Mathematics	
CGS MAT 228	Statistical Analysis	
CGS MAT 229	Linear Algebra	
CGS MAT 271	Ordinary Differential Equations	
CGS ECO/CGS BUS 243	Economic and Business Statistics	
CGS PHY 201	University Physics I	
or CGS PHY 202	University Physics II	
CGS CPS 245	Computer Science I: Object-Oriented Programming	
CGS CPS 255	Computer Science II: Objects and Data Abstraction	
CGS EGR 263	Engineering Thermodynamics	
<b>Total Credits</b>		<b>16-18</b>

\* CGS MAT 215 is not recommended for students who intend to major in Mathematics.

### Music Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS MUS 171	Music Theory I	3
Choose 1 of the following courses:		1-2
CGS MUS 1	Beginning Piano	
CGS MUS 2	Beginning Piano	
CGS MUS 3	Elementary Piano	
CGS MUS 4	Elementary Piano	
Choose 2 of the following courses:		6
CGS MUS 172	Music Theory II	
CGS MUS 173	Music Literature and Appreciation	
CGS MUS 174	Music Literature and Appreciation	
CGS MUS 273	Jazz History and Appreciation	
CGS MUS 278	History of Rock and Roll	

CGS MUS 285	World Music	
<b>Total Credits</b>		<b>10-11</b>

### Philosophy Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS PHI 101	Introduction to Philosophy	3
CGS PHI 211	Elementary Logic	3
Choose 1 of the following courses:		3
CGS PHI 237	Technology, Values and Society	
CGS PHI 241	Ethics	
CGS PHI 244	Environmental Ethics	
CGS PHI 248	Biomedical Ethics	
<b>Elective Courses - Student/Advisor Choice</b>		
Choose two additional CGS PHI courses		6
<b>Total Credits</b>		<b>15</b>

### Physics Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS PHY 201	University Physics I	5
CGS PHY 202	University Physics II	5
CGS MAT 233	Calculus and Analytic Geometry III	4
<b>Total Credits</b>		<b>14</b>

### Political Science Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS POL 104	American Government and Politics	3
Choose 2 of the following courses:		6
CGS POL 120	Politics of Crime and Punishment	
CGS POL 160	Comparative Politics	
CGS POL 175	International Politics	
CGS POL 231	Sex, Power and Public Policy	
Choose 2 of the following courses:		6
CGS POL 210	Civil Liberties	
CGS POL 215	Media and Politics	
CGS POL 280	Terrorism	
<b>Total Credits</b>		<b>15</b>

### Pre-Nursing Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS BIO 251	General Survey of Microbiology	5
CGS BIO 202	Anatomy and Physiology 1	4
CGS BIO 203	Anatomy and Physiology 2	4
Choose 1 of the following courses:		3-5
CGS CHE 125	Introductory Chemistry	
CGS CHE 203	Survey of Biochemistry	
<b>Total Credits</b>		<b>16-18</b>

### Psychology Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS PSY 210	Statistical Methods in Psychology	3
Choose 1 of the following courses:		3-4
CGS PSY 201	Introductory Psychology	
CGS PSY 202	Introductory Psychology	
Choose 1 of the following courses:		3
CGS PSY 250	Life Span Developmental Psychology	
CGS PSY 360	Psychology of Childhood and Adolescence	
CGS PSY 362	Psychology of Adulthood and Aging	
Choose 1 of the following courses:		3-4
CGS BIO 180	Introduction to Human Biology	
CGS BIO 201	Human Structure & Function	
CGS BIO 202	Anatomy and Physiology 1	
<b>Total Credits</b>		<b>12-14</b>

### Sociology Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS SOC 101	Introduction to Sociology	3
CGS SOC 234	Sociology of Race and Ethnicity	3
<b>Elective Courses - Student/Advisor Choice</b>		
Choose 2 of the following courses:		6
CGS SOC 130	Contemporary Social Problems	
CGS SOC 160	Sociology of Human Sexuality	
CGS SOC 205	Global Social Problems	
CGS SOC 220	Sociology of Marriage and the Family	
CGS SOC 231	Crime and Criminal Justice	
CGS SOC 246	Juvenile Delinquency	
CGS SOC 250	People, Organizations, and Society	
CGS SOC 285	Sociology of Health and Illness	
CGS SOC 294	Practice in Applied Sociology	
CGS SOC 299	Independent Reading in Sociology	
CGS SOC 355	Sociology of the Environment	
<b>Total Credits</b>		<b>12</b>

### Sustainability Emphasis

Code	Title	Credits
<b>Required Courses</b>		
Choose 1 of the following courses:		3
CGS BUS 101	Introduction to Business	
CGS BUS 243	Economic and Business Statistics	
CGS ECO 101	Intro to Economics	
CGS ECO 203	Economics - Macro	
CGS ECO 204	Economics - Micro	
CGS EGR 105	Engineering Fundamentals	
CGS ECO 243	Economic and Business Statistics	
CGS MAT 215	Elementary Statistical Analysis	
Choose 2 of the following courses:		7-10
CGS BIO 101	Concepts of Biology	

CGS BIO 150	Foundations of Biological Sciences I	
CGS CHE 125	Introductory Chemistry	
CGS CHE 145	General Chemistry I	
CGS GLG 101	Physical Geology	
CGS GLG 135	Introduction to Environmental Geology	
CGS GLG 169	Environmental Geology	
Choose 2 of the following courses:		6-8
CGS BIO 191	Environmental Science	
CGS BIO 310	General Ecology	
CGS GEO 350	Environmental Conservation	
CGS INT 283	Interdisciplinary Studies: Local Applications of Global Sustainability	
CGS PHI 244	Environmental Ethics	
CGS SOC 355	Sociology of the Environment	
<b>Total Credits</b>		<b>16-21</b>

### Theatre Arts Emphasis

Completion of the following courses will fulfill the requirements for this emphasis.

Code	Title	Credits
<b>Required Courses</b>		
CGS CTA 130	Introduction to Theatre	3
CGS CTA 131	Theatre Laboratory *	3
<b>Elective Courses</b>		
Choose 9 credits from the following:		9
CGS CTA 131	Theatre Laboratory *	
CGS CTA 232	Introduction to Acting	
CGS CTA 150	Introduction to Film	
CGS CTA 294	Internship in Communication and Theatre Arts	
CGS CTA 298	Topics in Speech and Dramatic Arts	
CGS ENG 280	Introduction to Shakespeare	
CGS ART 101	Introduction to Drawing	
CGS ART 112	Three-Dimensional Design	
<b>Total Credits</b>		<b>15</b>

\* A minimum of 3 credits of CGS CTA 131 is required. An additional 1 to 3 credits can be taken of CGS CTA 131 to count towards the emphasis.

Students should be aware that the Theatre Arts Emphasis will give them the basic knowledge and individualized experience to successfully prepare them for a major/minor in Theatre Arts, but they will be required to take additional lower division courses in Theatre when they transfer.

### Writing Emphasis

Code	Title	Credits
<b>Required Courses</b>		
CGS ENG 201	Intermediate Composition	3
CGS ENG 203	Creative Writing I	3
CGS ENG/CGS BUS 210	Business Communication	3
Choose 1 of the following:		1-3
CGS ENG 202	Writing about Literature	
CGS ENG 204	Creative Writing II	

CGS ENG 291	Writing Tutor Seminar	
<b>Total Credits</b>		<b>10-12</b>

## College of General Studies Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 20 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 30 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Contact Information

Campus Websites:

<https://uwm.edu/waukesha>/<https://uwm.edu/washington/>

# GRADUATE SCHOOL

As one of just two public research universities in the state, UWM offers 150+ master's, doctoral, professional, and graduate certificate programs, more than any other university in Southeastern Wisconsin. Our distinctive programs include the first School of Freshwater Sciences in America, the only dedicated public health school in the state and the only dedicated arts school in the University of Wisconsin System, among many other top-ranked programs.

UWM is also rated as an R1 university, one of the nation's top 146 research universities as recognized by the Carnegie Classification of Institutions of Higher Education. The R1 status reflects the depth and breadth of our work across dozens of doctoral programs and research centers. Our discoveries transform lives and fuel the region's economy.

Top research status is coveted among institutions that value excellence in cutting-edge research, forming strategic partnerships and integrating research across a broad curriculum. UWM faculty, staff, administrators, and students have worked toward this recognition for decades, demonstrating research excellence in laboratories and libraries, lecture halls and at international conferences.

Our nationally known professors are leaders in their fields who are passionate about developing the next generation of leaders. Graduate students work alongside faculty mentors to advance important and innovative research in UWM's 170+ centers, labs and institutes.

UWM is a vibrant community of nearly 25,000 students—including nearly 4,700 graduate students—from around the nation and more than 80 countries. Our campus is the most diverse in the UW System.

More than \$6 million in assistantships, fellowships and scholarships are awarded to graduate students each year. Assistantships offer full tuition remission, health coverage, and a monthly stipend, and travel awards are available to graduate students who present at professional conferences and meetings.

Whether you are interested in a professional master's degree, advancing your career with a certification, or conducting research and obtaining your doctorate, you can be confident that we are just as committed to your education as you are.

## Programs

- Data Science, MS (p. 700)
- Multidisciplinary Committee-Directed PhD (p. 703)

## Data Science, MS

### Data Everywhere

There has been an explosion of data over the last decade. Everything that people do like listening to music, streaming shows, using social media or rideshares generates data. In fact, almost everything that goes on in the world today is measured and recorded somewhere. Analyzing that data can vastly improve human lives and business performance. So, it's not surprising that analytics are now used routinely even in fields that did not use much data before like the Arts, Music, and Creative Writing. Analytics are also extensively deployed in Business, Engineering and Manufacturing and Government and even in many not-for-profit sectors like education, fundraising and social welfare. It is safe to say that virtually all human activity that affects our lives uses analytics in

some way today. Visit this link (<https://uwm.edu/data-science/>) *for more information on how UWM prepares students for careers in data science fields.*

## Why should you Consider a Master of Science in Data Science (MSDS)?

With every field turning to data to improve decision-making and performance, Data Science is one of the fastest growing professions today but there aren't enough trained data analysts to fill that need. A Master's degree in Data Science that trains you to analyze data can therefore help you in finding jobs with attractive salaries.

A report from the employment outlook firm Burning Glass produced jointly with IBM and the Business Higher Education Forum identified several job categories in the data science and analytics field, including data driven decision makers ("leverage data to inform strategic and operational decisions") and functional analysts ("utilize data and analytical models to inform specific functions and business decisions"). They estimated a national demand of 1.8 million job postings nationwide for 2020, with a 5-year growth rate of approximately 15%. Importantly, the report also states: "39% of Data Scientists and Advanced Analysts require a Master's or Ph.D. These degrees take additional years of schooling to complete, so it will take a significant time investment to train a larger pool of workers. Therefore, because these roles are already undersupplied and projected to grow rapidly, the skills shortage is in danger of worsening."

The Bureau of Labor Statistics also projects that Computer and Information Research Scientists category of jobs will grow 15% over the 2019-2029 period and describes this as: "...much faster than average for all occupations[1] (p. ). Job prospects are expected to be excellent" and states that the "median annual wage for computer and information research scientists was \$126,830 in May 2020." BLS also classifies this as a category in which most jobs require a master's degree.

Additional evidence of demand is also seen in investments made by employers like Northwestern Mutual that have invested significant resources of \$15 million in the establishment of the Northwestern Mutual Data Science Institute to support the launch and growth of undergraduate and graduate programs related to data including data science and data analytics.

## Flexible Curriculum

We understand the needs of working professionals and offer an in-person or online program that will both build your career and enhance your professional networking opportunities. Fulfill your professional goals through a wide selection of courses offered in on-campus, online, and hybrid delivery options.

## MS Data Science Courses

To see a list of current classes available for the MS Data Science degree please see our MS Data Science Current Classes (<https://uwm.edu/graduateschool/msds-current-classes/>) page.

For a complete listing of ALL classes related to the degree please see the Requirements tab (p. 701).

## Why UWM?

The MSDS at UWM is unique because its goal is to train graduates to practice data analytics in a field they are most passionate about. For example, if your interest is healthcare, you can become a data analyst in healthcare. If your passion is education, you can get the training to

become an analyst in the field of education. The MSDS is therefore designed to give you the flexibility to build a career in data science in whatever field you want.

## Ready to Apply?

The Data Science program is a multidisciplinary program. To apply, visit this link (<https://graduateschool-apply.uwm.edu/>) and click on the Apply Now tab to find the MS Data Science degree under **Multidisciplinary Programs**. Or go directly to the **MS Data Science application**.

[1] Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Computer and Information Research Scientists, at <https://www.bls.gov/ooh/computer-and-information-technology/computer-and-information-research-scientists.htm> (visited *January 04, 2022*)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

For admission to the M.S. in Data Science program, students must meet the general requirements of admission to a graduate program at UW-Milwaukee. As stated by the Graduate School, these requirements include: (1) a baccalaureate degree, or its equivalent as determined by the UWM Center on International Education, from a regionally accredited institution, completed before the first term of enrollment in the Graduate School; (2) Proficiency in the English language; and (3) A minimum cumulative undergraduate grade point average (GPA) of 2.75 on a 4.0 scale, or an equivalent measure on a grading system that does not use a 4.0 scale. Applications must include a reason statement, at least one letter of recommendation, and other materials as specified in the graduate application system. Incomplete applications will not be considered.

Students applying to the program are expected to have proficiency, demonstrated through coursework, exams or a portfolio, in the following areas: Linear Algebra (3 credits), Multivariable Calculus (4 credits), Statistics (3 credits), and Computer Literacy (6 credits). Those without these proficiencies may be admitted when they have 6 credits or fewer of the proficiency requirements remaining to be completed, but proficiency coursework does not count towards the MS.

## Ready to Apply?

The Data Science program is a multidisciplinary program. To apply go to: [graduateschool-apply.uwm.edu](https://graduateschool-apply.uwm.edu/) (<https://graduateschool-apply.uwm.edu/>) and click on the Apply Now tab to find the MS Data Science degree under **Multidisciplinary Programs**. Or go directly to the **MS Data Science application**.

## Credits and Courses

Code	Title	Credits
<b>Core Areas</b>		
Complete 18 credits; 1 course from each sub-area below:		

<i>Developing insights from data for applications</i>		3
Complete 1 course:		
ATM SCI 600G	Data Analytics	
COMPSCI 425G	Introduction to Data Mining	
INFOST 582G	Introduction to Data Science	
<i>Organizing and maintaining large data sets</i>		3
Complete 1 course:		
BUS ADM 749	Data and Information Management	
COMPSCI 557G	Introduction to Database Systems	
INFOST 691G	Special Topics in Information Science: (Topic: Data Management and Curation)	
INFOST 714	Metadata	
INFOST 785	Database Management Systems for Information Professionals	
PH 718	Data Management and Visualization in R	
<i>AI and Machine Learning to extract insight from Data</i>		3
Complete 1 course:		
BUS ADM 767	Ideas and Applications of Data Science in Different Fields	
COMPSCI 411G	Machine Learning and Applications	
COMPSCI 422G	Introduction to Artificial Intelligence	
COMPSCI 710	Artificial Intelligence	
COMPSCI 711	Introduction to Machine Learning	
ECON 710	Applied Econometrics	
INFOST 687G	Data Analysis for Data Science	
MATH 804	Industrial Mathematics II	
<i>Probabilistic methods to analyze uncertainty in data</i>		3
Complete 1 course:		
ATM SCI 500G	Statistical Methods in Atmospheric Sciences	
ATM SCI 700	Statistical Methods in Atmospheric Sciences II: Signal Detection	
BUS ADM 754	Statistical Analysis	
BUS ADM 713	Business Forecasting Methods	
BUS ADM 714	Multivariate Techniques in Management Research	
BUSMGMT 709	Predictive Analytics for Managers	
COMPSCI 720	Computational Models of Decision Making	
COMPST 701	Computing Fundamentals for IT Professionals	
ECON 411G	Economic Forecasting Methods	
ECON 413G	Statistics for Economists	
ECON 513G or ECON 703	Introduction to Econometrics Econometrics	
ECON 835	Econometric Methods II	
ED PSY 724	Educational Statistical Methods II	
ED PSY 820	Multiple Regression	
GEOG 737	Qualitative Research	
GEOG 747	Spatial Analysis	
IND ENG 575G	Design of Experiments	
IND ENG 765	Operations Research Methods	
MATH 783	Introduction to Probability Models	

MTHSTAT 361G	Introduction to Mathematical Statistics I	ART 526G	Research in Universal Design and Fabrication
MTHSTAT 362G	Introduction to Mathematical Statistics II	BUS ADM 741	Web Mining and Analytics
MTHSTAT 563G or MTHSTAT 763	Regression Analysis	BUS ADM 742	Big Data in Business
MTHSTAT 564G or MTHSTAT 764	Time Series Analysis	BUS ADM 745	Artificial Intelligence for Business
MTHSTAT 871	Mathematical Statistics I	BUS ADM 763	Marketing Analytics
MTHSTAT 872	Mathematical Statistics II	BUS ADM 769	Database Marketing
PH 702	Introduction to Biostatistics	BUS ADM 812	Machine Learning for Business
PH 711	Intermediate Biostatistics	BUS ADM 813	Social Media Analytics for Business
PH 818	Statistical Computing	BUS ADM 816	Business Intelligence Technologies & Solutions
POL SCI 701	Techniques of Political Science Research	BUS ADM 817	Connected Systems for Business
POL SCI 702	Advanced Techniques of Political Science Research	COMPSCI 423G	Introduction to Natural Language Processing
PSYCH 510G	Advanced Psychological Statistics	or COMPSCI 723	Natural Language Processing
PSYCH 610G	Experimental Design	COMPSCI 444G	Introduction to Text Retrieval and Its Applications in Biomedicine
SOCIOL 461G	Social Data Analysis Using Regression	or COMPSCI 744	Text Retrieval and Its Applications in Biomedicine
SOCIOL 760	Advanced Statistical Methods in Sociology	COMPSCI 469G	Introduction to Computer Security
SOCIOL 982	Advanced Quantitative Analysis	COMPSCI 535G	Algorithm Design and Analysis
<i>Advanced Programming for Data Collection and Data Science</i>		COMPSCI 704	Analysis of Algorithms
Complete 1 course:		COMPSCI 712	Image Processing
BUSMGMT 744	R Programming for Business Analytics	COMPSCI 725	Robot Motion Planning
COMPST 702	Introductory Programming Using Python	COMPSCI 755	Information and Coding Theory
COMPST 751	Data Structures and Algorithms	COMPSCI 759	Data Security
MTHSTAT 566G or MTHSTAT 766	Computational Statistics	COMPSCI 811	Advanced Machine Learning
URBPLAN 794	Internet Geographic Information Systems (GIS)	CRM JST 520G	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS
<i>Ethics and Society</i>		CRM JST 713	Measuring Crime & Analyzing Crime Data
Complete 1 course:		CRM JST 716	Advanced Analytic Techniques for Crime Analysts
BUS ADM 743	Information Privacy, Security & Continuity	CRM JST 910	Methods and Practice Capstone for Crime Analysts
INFOST 465G	Legal Aspects of Information Products and Services	ECON 734	Foundation of Econometric Methods
INFOST 583G	Survey of Information Security	ECON 735	Econometric Methods I
INFOST 660G	Information Policy	ED PSY 821	Psychometric Theory and Practice
INFOST 661G	Information Ethics	ED PSY 822	Item Response Theory
INFOST 784	Information Security Management	ED PSY 823	Structural Equation Modeling
<b>Electives <sup>1</sup></b>		ED PSY 824	Advanced Experimental Design and Analysis
Complete 4 courses:		ED PSY 825	Multivariate Methods
ANTHRO 380G	Anthropological Applications of GIS	ED PSY 826	Analysis of Cross-Classified Categorical Data
ANTHRO 562G	Techniques and Problems in Archaeology	ED PSY 827	Survey Research Methods
ANTHRO 768	Topics in Advanced Research Design in Anthropology	ED PSY 832	Theory of Hierarchical Linear Modeling
ART 313G	Creative Coding	GEOG 704	Remote Sensing: Environmental and Land Use Analysis
ART 316G	Creative Interfaces	GEOG 705	Cartography
ART 317G	3D Environments and XR	GEOG 716	Watershed Analysis and Modeling
ART 427G	Advanced Design Workshop:	GEOG 726	Geographic Information Science
		GEOG 804	Advanced Remote Sensing

GEOG 826	Intermediate Geographic Information Science
INFOST 584G	Survey of Web and Mobile Content Development
INFOST 671G	Applied Web 3.0: Artificial Intelligence and Blockchain
INFOST 695G	Ethical Hacking I
INFOST 696G	Ethical Hacking II
INFOST 771	Data Curation
MATH 803	Industrial Mathematics I
PH 812	Statistical Learning & Data Mining
POL SCI 390G	Political Data Analysis
POL SCI 392G	Survey Research
SOCIOL 750	Research Methods in Sociology
SOCIOL 752	Fundamentals of Survey Methodology
SOCIOL 952	Social Network Analysis
URBPLAN 692G	Special Topics in Urban Planning: (Topic: Transportation Planning and GIS)
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning
URBPLAN 792	Using Urban Geographic Information Systems (GIS) for Planning
<i>Optional: Internship/Thesis Capstone</i> <sup>2</sup>	
BUS ADM 799	Reading and Research
COMPSCI 990	Masters Thesis
COMPSCI 995	Master's Capstone Project
ECON 790	Research Seminar for M.A. Students
ED PSY 790	Research or Thesis
ED PSY 799	Independent Reading
GEOG 798	GIS/Cartography Internship
GEOG 890	Research and Master Thesis
GEOG 999	Independent Work
INFOST 897	Information Science and Technology Independent Study
INFOST 991	Fieldwork in Information Science and Technology
MATH 890	Master's Thesis
MATH 892	Industrial Internship
URBPLAN 793	Applied Projects in Urban Geographic Information Systems
URBPLAN 991	Legislative/Administrative Agency Internship
URBPLAN 999	Independent Study

*Qualifying Exam*<sup>3</sup>

**Total Credits** **30**

<sup>1</sup> INFOST 691 (Topic: Artificial Intelligence and Disruptive Technologies) may also be used as an elective. Every student's program of electives must be approved by the program director; students may be able to count as Electives some courses in the "core" categories not applied to the core requirements (subject to Director's approval). Students wishing to apply other courses not listed here towards these electives must have each course approved by the program director.

<sup>2</sup> Of the required 12 elective credits, up to 3 degree credits may be awarded for a thesis or internship. Students who choose this option must complete a relevant thesis or internship that is approved by the program director. Students who choose to complete a thesis must work with a thesis advisor and have the thesis approved by the advisor and the program director. Students who choose to pursue an internship must also obtain approval from the program director. Students may select from courses such as those listed in the table or enroll for thesis credits with their thesis advisor (in the advisor's department).

<sup>3</sup> Students who do not choose to pursue the optional capstone course/thesis/internship option are required to pass a qualifying exam. During this exam, students are given a data set and a research problem to be addressed with the data, using data science techniques. Students must submit a final report in which they use the provided data set to address the research question and demonstrate that they have developed a sufficient level of expertise to work as a data scientist. This is a take-home exam and students have seven days to complete it.

## Additional Requirements

### Major Professor as Advisor

Admitted students are assigned a faculty advisor who will work with the student to assemble a program of study.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Multidisciplinary Committee-Directed PhD

This option is designed to meet the needs of highly qualified and motivated doctoral students who have academic interests that cannot be met by a single, existing UWM doctoral program. The program crosses traditional disciplinary boundaries and opens new areas of instruction and research.

Those who have been admitted to this program typically have identified a multidisciplinary research topic before applying to a UWM doctoral program. It is the applicant's responsibility to identify members of the UWM graduate faculty who would provide the necessary expertise and guidance for developing the multidisciplinary program proposal, and to obtain confirmation from these faculty that they are willing to serve as committee members through the completion of the program.

Students in this program are subject to all general Graduate School requirements for doctoral programs, including, but not limited to, minimum credits, residency, time limit, preliminary examination, proposal hearing, committee membership, and the dissertation defense.

For more information about the program, contact the Doctoral Specialist at [gs-doctoralservices@uwm.edu](mailto:gs-doctoralservices@uwm.edu).

## Requirements

1. Prospective students who have an interest in a multidisciplinary PhD degree program should apply to the UWM doctoral degree program that is most closely related to their major interest.
2. When an existing doctoral program receives an application from a student who is considering a multidisciplinary degree program, it will treat it as it would all other applications for admission; all normal admissions criteria will be invoked. Since there can be no assurance

of an alternate degree route for the student at the time of admission, the doctoral program must assume full normal responsibility for any student it admits, including guidance toward the completion of its designated doctoral degree.

3. The application for the special committee degree must be submitted to the Dean of the Graduate School on behalf of the student by the proposed major professor, and with the approval of the major professor's doctoral program. All proposals for this degree program must meet minimum PhD requirements of the Graduate School. The application should clearly state:
  - The reasons the special committee program is needed with an explanation of why the student's needs cannot be met within existing programs.
  - The exact title of the proposed degree.
  - The proposed course and seminar program envisaged.
  - Any tool requirements of the dissertation (language, etc.) and how these requirements will be met.
  - The nature and scope of preliminary examinations.
  - The nature of the dissertation (general subject area).
  - The names of the chairperson and (a minimum of) four other graduate faculty members who have agreed to serve on the committee.
4. The major professor must be an approved doctoral advisor of the program to which the student is originally admitted. In signing off on the application for the Multidisciplinary Committee-Directed PhD the program agrees to retain and keep all the student's records.
5. Multidisciplinary degree program proposals must come to the Graduate School within one year after admission to the doctoral program (or before the student has completed 12 credits in courses in the doctoral program). They must come to the Graduate School in a timely fashion—that is, when there is still a substantial portion of the program ahead of the student.
6. All applications must be approved both by the Graduate Curriculum Committee (GCC) and the Dean of the Graduate School. In all cases the Graduate School and the GCC will review applications to determine whether the proposed multidisciplinary program can be carried out within an established department or program, utilizing major and minor requirements or other available mechanisms. The suitability and degree of commitment of the supervisory committee for the proposed program will be examined.
7. Students in multidisciplinary degree programs are eligible for all categories of financial aid. They may be assigned teaching assistantships in participating departments or research or project assistantships with appropriate faculty members. Nominations for Graduate School and Distinguished Dissertation Fellowships, AOP and other awards may be made by the GCC. Limitations set by the Fellowship Committee on the number of nominations to be made by individual programs will apply to the GCC, for multidisciplinary students.
8. The Graduate School is vitally concerned about maintaining active participation by all members of special degree committees in the on-going PhD programs of the students, and asks the individual members of the committees to assume all of the responsibilities which a department or program faculty provides in a conventional program.



# HEALTH PROFESSIONS AND SCIENCES (COLLEGE OF)

The University of Wisconsin – Milwaukee College of Health Professions and Sciences offers a wide array of health-related academic programs in biomedical sciences, global health, health care administration, nursing, the rehabilitation sciences, and sustainable peacebuilding.

The faculty and staff in these areas are training our graduates for high-demand careers. Many of our degree programs are nationally recognized and ranked and have achieved the highest accreditation possible.

The academic quality of our programs is excellent, and through our outreach and e-Learning programs, we have extended access to our educational resources to distant locations. Our interdisciplinary collaborations continue to expand, which has enabled us to establish a distinguished presence on campus and become an engine for innovation for southeastern Wisconsin.

Through research, our faculty, staff and students continue to break new ground and pioneer investigations that are helping advance discoveries critical to the health care professions and sciences.

We are proudly dedicated to serving our community through fruitful partnership with many organizations, alumni and friends.

## Schools and Programs

- Biomedical Sciences and Health Care Administration (School of) (p. 706)
  - Biomedical Sciences (p. 706)
    - Biomedical Sciences, BS: Biomedical Science (p. 707)
    - Biomedical Sciences, BS: Cytotechnology (p. 709)
    - Biomedical Sciences, BS: Diagnostic Imaging Completion (p. 712)
    - Biomedical Sciences, BS: Diagnostic Medical Sonography (p. 713)
    - Biomedical Sciences, BS: Health Science Completion (p. 716)
    - Biomedical Sciences, BS: Health Sciences (p. 717)
    - Biomedical Sciences, BS: Medical Laboratory Science (p. 718)
    - Biomedical Sciences, BS: Public Health Microbiology (p. 721)
    - Biomedical Sciences, BS: Radiologic Technology (p. 723)
    - Biomedical Sciences, MS (p. 726)
    - Blood Banking/Immunohematology, Undergraduate Certificate (p. 727)
    - Death Investigation, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration) (p. 728)
    - Forensic Science, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration) (p. 728)
    - Forensic Toxicology, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration) (p. 729)
- Interprofessional Leadership in Healthcare, Undergraduate Microcredential (p. 730)
- Molecular Diagnostics, Undergraduate Certificate (p. 730)
- Health Care Administration (p. 731)
  - Health Care Administration, BS (p. 731)
  - Health Care Administration, Minor (p. 734)
  - Health Care Informatics, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration) (p. 734)
  - Healthcare Administration, MHA (p. 735)
  - Healthcare Compliance, Graduate Certificate (p. 736)
  - Value-Based Healthcare, Graduate Certificate (p. 737)
- Health Sciences, PhD (p. 738)
- Nursing (School of) (p. 740)
  - Adult-Gerontology Acute Care Nurse Practitioner, Graduate Certificate (p. 745)
  - Clinical Nurse Specialist (CNS), Graduate Certificate (p. 746)
  - Family Nurse Practitioner, Graduate Certificate (p. 747)
  - Global Health, Undergraduate Certificate (School of Nursing) (p. 748)
  - Health Professional Education, Graduate Certificate (School of Nursing) (p. 750)
  - Interprofessional Public and Population Health, Graduate Certificate (School of Nursing) (p. 751)
  - Nursing Practice, DNP (p. 752)
  - Nursing Practice, DNP/Business Administration, MBA (p. 754)
  - Nursing Practice, DNP. Adult-Gerontology Acute Care Nurse Practitioner (p. 755)
  - Nursing Practice, DNP. Clinical Nurse Specialist: Adult-Gerontology (p. 757)
  - Nursing Practice, DNP. Clinical Nurse Specialist: Pediatrics (p. 759)
  - Nursing Practice, DNP. Family Nurse Practitioner (p. 762)
  - Nursing Practice, DNP. Nursing System Leadership: Nurse Executive (p. 764)
  - Nursing Practice, DNP. Psychiatric Mental Health Nurse Practitioner (p. 766)
  - Nursing, BS (p. 768)
  - Nursing, MN (p. 773)
  - Nursing, PhD (p. 775)
  - Nursing, RN to BS Program (p. 776)
  - Peace and Conflict Studies, Undergraduate Certificate (p. 778)
  - Psychiatric Mental Health Nurse Practitioner (PMHNP), Graduate Certificate (p. 780)
  - Sustainable Peacebuilding, MSP (p. 781)
  - Trauma Informed Care, Graduate Certificate (School of Nursing) (p. 783)
- Rehabilitation Sciences and Technology (School of) (p. 784)
  - Assistive Technology and Accessible Design, Graduate Certificate (School of Rehabilitation Sciences and Technology) (p. 786)
  - Athletic Training, MS (p. 787)
  - Certified Mental Performance Consultant, Graduate Certificate (p. 789)
  - Communication Sciences and Disorders, BS (p. 791)
  - Communication Sciences and Disorders, MS (p. 793)

- Health Professional Education, Graduate Certificate (School of Rehabilitation Sciences and Technology) (p. 795)
- Interprofessional Public and Population Health, Graduate Certificate (School of Rehabilitation Sciences and Technology) (p. 797)
- Occupational Science and Technology, BS (p. 798)
- Occupational Therapy, MS (p. 801)
- Occupational Therapy, MS: Assistive Technology and Accessible Design (p. 802)
- Occupational Therapy, MS: Ergonomics (p. 804)
- Occupational Therapy, OTD (p. 806)
- Physical Therapy, DPT (p. 807)
- Pre-Athletic Training (p. 808)
- Pre-Audiology (p. 809)
- Pre-Occupational Therapy (p. 810)
- Pre-Physical Therapy (p. 811)
- Pre-Speech-Language Pathology (p. 812)
- Rehabilitation Science and Technology, MS (p. 813)
- Therapeutic Recreation, Undergraduate Certificate (p. 815)
- Trauma Informed Care, Graduate Certificate (School of Rehabilitation Sciences and Technology) (p. 816)
- Forensic Toxicology, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration) (p. 729)
- Interprofessional Leadership in Healthcare, Undergraduate Microcredential (p. 730)
- Molecular Diagnostics, Undergraduate Certificate (p. 730)
- Health Care Administration (p. 731)
  - Health Care Administration, BS (p. 731)
  - Health Care Administration, Minor (p. 734)
  - Health Care Informatics, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration) (p. 734)
  - Healthcare Administration, MHA (p. 735)
  - Healthcare Compliance, Graduate Certificate (p. 736)
  - Value-Based Healthcare, Graduate Certificate (p. 737)

## Biomedical Sciences

The Biomedical Sciences Department in the UWM College of Health Professions and Science offers a broad range of programs dedicated to the detection, diagnosis, prevention and treatment of diseases across the systems and parts of the body.

Available areas of study and professional preparation programs for learners interested in careers and research in the healthcare industry are:

- Laboratory based programs including master's and Ph.D. preparation (working with bodily fluids, tissues and cells).
- Diagnostic Imaging programs (working with organs, the vascular system and skeleton).
- Health Sciences including degree completion programs (application of science to health, including the study of medicine, nutrition, and other health-related topics and how they affect humans).

Please see the program page for details about each program.

## Programs

- Biomedical Sciences, BS: Biomedical Science (p. 707)
- Biomedical Sciences, BS: Cytotechnology (p. 709)
- Biomedical Sciences, BS: Diagnostic Imaging Completion (p. 712)
- Biomedical Sciences, BS: Diagnostic Medical Sonography (p. 713)
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- Forensic Toxicology, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration) (p. 729)
- Interprofessional Leadership in Healthcare, Undergraduate Microcredential (p. 730)
- Molecular Diagnostics, Undergraduate Certificate (p. 730)

## Biomedical Sciences and Health Care Administration (School of)

The UW-Milwaukee School of Biomedical Sciences & Health Care Administration offers two exciting areas of study.

The Biomedical Sciences programs focus on the detection, diagnosis and treatments of diseases across all systems and parts of the human body through laboratory-based testing and diagnostic imaging.

The Health Care Administration programs help develop basic business principles and tools that students need for effective decision-making in a health care setting.

## Departments and Programs

- Biomedical Sciences (p. 706)
  - Biomedical Sciences, BS: Biomedical Science (p. 707)
  - Biomedical Sciences, BS: Cytotechnology (p. 709)
  - Biomedical Sciences, BS: Diagnostic Imaging Completion (p. 712)
  - Biomedical Sciences, BS: Diagnostic Medical Sonography (p. 713)
  - Biomedical Sciences, BS: Health Science Completion (p. 716)
  - Biomedical Sciences, BS: Health Sciences (p. 717)
  - Biomedical Sciences, BS: Medical Laboratory Science (p. 718)
  - Biomedical Sciences, BS: Public Health Microbiology (p. 721)
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  - Forensic Science, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration) (p. 728)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Shahla Anders	Clinical Associate Professor	MEd, MLS(ASCP)CM	Carroll University		
Cindy Brown	Clinical Associate Professor Emerita	MEd	Central Michigan University		✓
Daniel Cordas	Clinical Assistant Professor	BS	University of Wisconsin-Milwaukee		
Bradley DePons	Clinical Assistant Professor	BS, MLS(ASCP)CM	University of Wisconsin-Milwaukee		
Richard Dettman	Clinical Assistant Professor	PhD	Walden University		
Jennifer Doll	Associate Professor	PhD	Washington University	✓	
Kaitlyn Doyle	Clinical Assistant Professor	BS	University of Wisconsin-Milwaukee		
Janis Eells	Professor	PhD	University of Iowa	✓	
Fang Yao Stephen Hou	Clinical Associate Professor	PhD, MB(ASCP)QCYM, MLS(ASCPi)	University of Wisconsin-Madison	✓	
Randall Lambrecht	Professor	PhD, MT(ASCP)	University of Wisconsin-Madison		✓
Elizabeth Liedhegner	Assistant Professor	PhD	Case Western Reserve University	✓	
Zac Lunak	Clinical Associate Professor	PhD, MLS, HTL(ASCP)CM	Marquette University		
Kristen Moose	Clinical Assistant Professor	MPH	University of Michigan		
Dean Nardelli	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Jason Rentmeester	Clinical Assistant Professor	BS	University of Wisconsin-Milwaukee		
Troy Skwor	Assistant Professor	PhD	Texas A&M University	✓	
Susan Stalewski	Clinical Associate Professor	MBA, MLS(ASCP)CM	Keller Graduate School of Management		
Jayne Wisniewski	Clinical Associate Professor	MEd	Carroll University, WI		

## Biomedical Sciences, BS: Biomedical Science

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

### Biomedical Science

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. This submajor provides excellent preparation for medical, physician assistant, dental,

veterinary school, research and other related fields that require an advanced degree.

### Requirements

This program is intended for students who wish to pursue an education in a laboratory-based program with the intent of working in the healthcare industry or for pursuing graduate health profession study. Sufficient elective credits are included to facilitate custom degree pathways. The minimum number of credits required to complete this degree is 120. Students who need background preparation courses in math, English, foreign language, or chemistry may need additional credits. This program does not lead to certification as a Medical Laboratory Scientist.

The minimum degree requirement for completion is 120 credits including:

1. Completion of UWM's General Education Requirements (GER) (p. 30);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of all required courses and electives (87 credits) through the second semester of junior year (per plan of study);
5. A grade of C or better in all junior-level courses.

## Biomedical Science Submajor Requirements

Code	Title	Credits
CHPS 100	New Student Seminar in Health Professions	1
BIO SCI 202	Anatomy and Physiology I <sup>1</sup>	4
CHEM 102	General Chemistry <sup>1</sup>	5
BIO SCI 203	Anatomy and Physiology II <sup>1</sup>	4
CHEM 104	General Chemistry and Qualitative Analysis <sup>1</sup>	5
HS 224	Computational Tools for Healthcare Professionals	3
THERREC 103	Life Balance: An Understanding of Leisure (or equivalent) <sup>2</sup>	3
BIO SCI 150	Foundations of Biological Sciences I <sup>1</sup>	4
BMS 301	Human Pathophysiology: Fundamentals <sup>1</sup>	1
BMS 302	Human Pathophysiology: Organ Systems I <sup>1</sup>	1
BMS 303	Human Pathophysiology: Organ Systems II <sup>1</sup>	1
CHEM 341	Introductory Survey of Organic Chemistry <sup>1</sup>	3
CHEM 342	Introductory Organic Chemistry Laboratory <sup>1</sup>	2
COMSDIS 250	Interprofessional Communication in the Health Sciences (or equivalent) <sup>3</sup>	3
BIO SCI 325	Genetics <sup>1</sup>	4
BMS 304	Human Pathophysiology: Organ Systems III <sup>1</sup>	1
BMS 305	Human Pathophysiology: Organ Systems IV <sup>1</sup>	1
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective (or equivalent) <sup>4</sup>	3
ENGLISH 207	Health Science Writing (or equivalent)	3
BIO SCI 383	General Microbiology <sup>1</sup>	4
BMS 427	Clinical Immunology <sup>1</sup>	3
BMS 428	Clinical Immunology Laboratory <sup>1</sup>	1
CHEM 501	Introduction to Biochemistry <sup>1</sup>	3
BMS 420	Clinical Hematology	3
BMS 421	Introduction To Hematology Laboratory	1
BMS 431	Clinical Chemistry	3
BMS 432	Clinical Chemistry Laboratory Theory & Operations	1
BMS 517 or BMS 717	Laboratory Technology: Theory and Practice	2
BMS 518 or BMS 718	Experimental Design and Research in Biomedical Sciences	1
BMS 534	Medical Microbiology	3
BMS 535	Medical Microbiology Laboratory	2

BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1
BMS 547	Clinical Laboratory Diagnosis	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
Additional Electives and GER Competencies <sup>5</sup>		31
KIN 270	Statistics in the Health Professions: Theory and Practice	3
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Required science courses - 2.5 average GPA.

<sup>2</sup> Fulfills 3 credits of GER Humanities.

<sup>3</sup> Fulfills 3 credits of GER Social Science.

<sup>4</sup> Fulfills 3 credits of both Cultural Diversity and Social Science.

<sup>5</sup> Electives posted in final year only necessary to complete credit requirement for graduation.

BMS 101, BMS 205, BMS 531 and BMS 549 are recommended, but not required.

### Suggested Elective Certificates

(Please consult advising regarding certificate requirements):

Molecular Diagnostics Certificate (p. 730)

Health Care Informatics Certificate (p. 734) (**available online**)

Health Care Administration Minor (p. 734) (**available online**)

## Biomedical Science Submajor Requirements

### Year 1

Semester 1		Credits
CHPS 100	New Student Seminar in Health Professions	1
BIO SCI 202	Anatomy and Physiology I <sup>1</sup>	4
CHEM 102	General Chemistry <sup>1</sup>	5
BMS 101	Introduction to Clinical Laboratory Sciences (recommended, not required)	
BMS 205	Introduction to Diagnostic Medicine (recommended, not required)	
Arts GER		3
<b>Credits</b>		<b>13</b>

### Semester 2

BIO SCI 203	Anatomy and Physiology II <sup>1</sup>	4
CHEM 104	General Chemistry and Qualitative Analysis <sup>1</sup>	5
HS 224	Computational Tools for Healthcare Professionals	3
THERREC 103	Life Balance: An Understanding of Leisure (or equivalent)	3
<b>Credits</b>		<b>15</b>

### Year 2

#### Semester 1

BIO SCI 150	Foundations of Biological Sciences I <sup>1</sup>	4
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I <sup>1</sup>	1
BMS 303	Human Pathophysiology: Organ Systems II <sup>1</sup>	1
CHEM 341	Introductory Survey of Organic Chemistry <sup>1</sup>	3
CHEM 342	Introductory Organic Chemistry Laboratory <sup>1</sup>	2
COMSDIS 250	Interprofessional Communication in the Health Sciences (or equivalent)	3

**Credits** **15**

<b>Semester 2</b>		
BIO SCI 325	Genetics	4
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective (or equivalent)	3
BMS 304	Human Pathophysiology: Organ Systems III <sup>1</sup>	1
BMS 305	Human Pathophysiology: Organ Systems IV <sup>1</sup>	1
ENGLISH 207	Health Science Writing (OWCB)	3
KIN 270	Statistics in the Health Professions: Theory and Practice	3
<b>Credits</b>		<b>15</b>
<b>Year 3</b>		
<b>Semester 1</b>		
BIO SCI 383	General Microbiology <sup>1</sup>	4
BMS 427	Clinical Immunology <sup>1</sup>	3
BMS 428	Clinical Immunology Laboratory <sup>1</sup>	1
CHEM 501	Introduction to Biochemistry <sup>1</sup>	3
Humanities GER		3
<b>Credits</b>		<b>14</b>
<b>Semester 2</b>		
BMS 420	Clinical Hematology	3
BMS 421	Introduction To Hematology Laboratory	1
BMS 431	Clinical Chemistry	3
BMS 432	Clinical Chemistry Laboratory Theory & Operations	1
BMS 534	Medical Microbiology	3
BMS 535	Medical Microbiology Laboratory	2
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1
<b>Credits</b>		<b>16</b>
<b>Year 4</b>		
<b>Semester 1</b>		
BMS 517 or BMS 717	Laboratory Technology: Theory and Practice or Laboratory Technology-Theory and Practice	2
BMS 518 or BMS 718	Experimental Design and Research in Biomedical Sciences or Experimental Design and Research in Biomedical Sciences	1
BMS 547	Clinical Laboratory Diagnosis	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
Electives		9
<b>Credits</b>		<b>16</b>
<b>Semester 2</b>		
BMS 531	Advanced Lectures in the Clinical Laboratory Sciences (Recommended, not required)	
BMS 549 or BMS 434	Professional Development in Clinical Laboratory Sciences (Recommended, not required) or Professional Development in the Health Sciences	
Electives		16
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Required science courses - 2.5 average GPA.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biomedical Sciences, BS: Cytotechnology

**Effective Fall 2024, the Cytotechnology submajor has suspended admission.**

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

## Cytotechnology

Cytotechnologists examine human cells under the microscope, looking for early signs of cancer or other diseases. When abnormal cells are detected, the cytotechnologist works with a pathologist to arrive at a final diagnosis. Students enrolled in the Cytotechnology Program will complete their senior year of professional clinical training at the UW / State Lab of Hygiene in Madison.

**Effective Fall 2024, the Cytotechnology submajor has suspended admission.**

## Requirements

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM's General Education Requirements (GER) (p. 30);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of:
  - a. all required courses and electives (87 credits) through the second semester of junior year for students pursuing Cytotechnology, or Medical Laboratory Science;
  - b. all required courses and electives (114 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses.

## Degree Requirements

Code	Title	Credits
<b>University Core</b>		
<i>Competency Requirements</i>		
Oral and Written Communication (OWC) Part A & B		
Quantitative Literacy (QL) Part A & B		
Foreign Language		
<i>Distribution Requirements</i>		
Arts		3
Cultural Diversity		3
Humanities		6
Natural Sciences		6
Social Sciences		6
<b>Biomedical Science Core</b>		
BIO SCI 150	Foundations of Biological Sciences I <sup>1</sup>	4
BIO SCI 202	Anatomy and Physiology I <sup>1</sup>	4
BIO SCI 203	Anatomy and Physiology II <sup>1</sup>	4
BIO SCI 325	Genetics <sup>1</sup>	4
BIO SCI 383	General Microbiology <sup>1</sup>	4
BMS 205	Introduction to Diagnostic Medicine	3

BMS 301 & BMS 302 & BMS 303 & BMS 304 & BMS 305	Human Pathophysiology: Fundamentals and Human Pathophysiology: Organ Systems I and Human Pathophysiology: Organ Systems II and Human Pathophysiology: Organ Systems III and Human Pathophysiology: Organ Systems IV <sup>1</sup>	5
BMS 427	Clinical Immunology <sup>1</sup>	3
BMS 428	Clinical Immunology Laboratory <sup>1</sup>	1
BMS 534	Medical Microbiology	3
BMS 535	Medical Microbiology Laboratory	2
BMS 536	Applied Clinical Microbiology	2
BMS 537	Medical Parasitology and Mycology	2
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1
CHEM 102	General Chemistry <sup>1</sup>	5
CHEM 104	General Chemistry and Qualitative Analysis <sup>1</sup>	5
CHEM 341	Introductory Survey of Organic Chemistry <sup>1</sup>	3
CHEM 342	Introductory Organic Chemistry Laboratory <sup>1</sup>	2
CHEM 501	Introduction to Biochemistry <sup>1</sup>	3
HS 224	Computational Tools for Healthcare Professionals	3
KIN 270	Statistics in the Health Professions: Theory and Practice	3

<sup>1</sup> Course counts towards a student's science GPA.

## Pre-Clinical Requirements

The junior year for students pursuing the Cytotechnology, or Medical Laboratory Science submajor consists primarily of pre-clinical courses, and the senior year is a 12-month professional training experience.

Medical Laboratory Science and Cytotechnology students must be prepared for full-time study (40 hours per week) that could also require additional study time at night and on weekends.

Code	Title	Credits
BMS 101	Introduction to Clinical Laboratory Sciences <sup>2</sup>	2
BMS 205	Introduction to Diagnostic Medicine <sup>2</sup>	3
BMS 420	Clinical Hematology	3
BMS 421	Introduction To Hematology Laboratory	1
BMS 431	Clinical Chemistry	3
BMS 432	Clinical Chemistry Laboratory Theory & Operations	1
BMS 521	Applied Clinical Hematology	2
BMS 522	Hemostasis	1
BMS 534	Medical Microbiology	3
BMS 535	Medical Microbiology Laboratory	2
BMS 536	Applied Clinical Microbiology	2
BMS 537	Medical Parasitology and Mycology	2

BMS 541	Urinalysis	1
BMS 542	Applied Clinical Chemistry	2
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

<sup>2</sup> BMS 101 and BMS 205 are highly recommended but not required.

## Cytotechnology Submajor Requirements

Code	Title	Credits
BMS 501	Introduction to Cytotechnology	1
BMS 575	Cytology of the Female Genital Tract - I	4
BMS 576	Cytology of the Female Genital Tract - II	4
BMS 577	Cytology of the Respiratory Tract	3
BMS 578	Cytology of the Gastrointestinal and the Genito-Urinary Tract	2
BMS 579	Cytology of Effusions and the Central Nervous System	3
BMS 580	Aspiration Cytology	4
BMS 581	Special Procedures in Cytology	1
BMS 582	Cytology of the Breast	1
BMS 583	Cytology Preparation Techniques	1
BMS 586	Cytology Lab Operations and Quality Control	1
BMS 587	Research Methods in Cytology	1
BMS 588	Diagnostic Microscopy in Cytology	5

Students apply to be admitted to the State Hygiene Lab in Madison, WI for their clinical rotations.

## Biomedical Sciences Requirements

Year 1		
Semester 1		Credits
BIO SCI 202	Anatomy and Physiology I	4
BMS 101	Introduction to Clinical Laboratory Sciences <sup>1</sup>	2
BMS 205	Introduction to Diagnostic Medicine <sup>1</sup>	3
CHEM 102	General Chemistry	5
GER Elective: Arts		3
<b>Credits</b>		<b>17</b>

Semester 2		
		Credits
BIO SCI 203	Anatomy and Physiology II	4
CHEM 104	General Chemistry and Qualitative Analysis	5
HS 224	Computational Tools for Healthcare Professionals	3
GER Elective: Humanities		3
<b>Credits</b>		<b>15</b>

Year 2		
Semester 1		Credits
BIO SCI 150	Foundations of Biological Sciences I	4
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I	1
BMS 303	Human Pathophysiology: Organ Systems II	1
CHEM 341	Introductory Survey of Organic Chemistry	3
CHEM 342	Introductory Organic Chemistry Laboratory	2
ENGLISH 207	Health Science Writing (DWCB) <sup>2</sup>	3
<b>Credits</b>		<b>15</b>

Semester 2		
		Credits
BIO SCI 325	Genetics	4
BMS 304	Human Pathophysiology: Organ Systems III	1
BMS 305	Human Pathophysiology: Organ Systems IV	1

KIN 270	Statistics in the Health Professions: Theory and Practice (QLB)	3
GER Elective: Social Science		3
GER Elective: Social Science		3
<b>Credits</b>		<b>15</b>

Year 3		
Semester 1		
BIO SCI 383	General Microbiology	4
BMS 427	Clinical Immunology	3
BMS 428	Clinical Immunology Laboratory	1
CHEM 501	Introduction to Biochemistry	3
GER Elective: Humanities		3
<b>Credits</b>		<b>14</b>

Semester 2		
		Credits
BMS 420	Clinical Hematology	3
BMS 421	Introduction To Hematology Laboratory	1
BMS 431	Clinical Chemistry	3
BMS 432	Clinical Chemistry Laboratory Theory & Operations	1
BMS 534	Medical Microbiology	3
BMS 535	Medical Microbiology Laboratory	2
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1
<b>Credits</b>		<b>16</b>

Year 4		
Summer		
BMS 521	Applied Clinical Hematology	2
BMS 522	Hemostasis	1
BMS 536	Applied Clinical Microbiology	2
BMS 537	Medical Parasitology and Mycology	2
BMS 541	Urinalysis	1
BMS 542	Applied Clinical Chemistry	2
<b>Credits</b>		<b>10</b>
<b>Total Credits</b>		<b>102</b>

<sup>1</sup> BMS 101 and BMS 205 are highly recommended but not required.

<sup>2</sup> ENGLISH 207 is required for students without any credit prior to Fall 2013.

## Cytotechnology Submajor Requirements

Year 4		
Semester 1		Credits
BMS 501	Introduction to Cytotechnology	1
BMS 575	Cytology of the Female Genital Tract - I	4
BMS 576	Cytology of the Female Genital Tract - II	4
BMS 577	Cytology of the Respiratory Tract	3
<b>Credits</b>		<b>12</b>

Semester 2		
		Credits
BMS 578	Cytology of the Gastrointestinal and the Genito-Urinary Tract	2
BMS 579	Cytology of Effusions and the Central Nervous System	3
BMS 580	Aspiration Cytology	4
BMS 581	Special Procedures in Cytology	1
BMS 582	Cytology of the Breast	1
BMS 586	Cytology Lab Operations and Quality Control	1
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>24</b>

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

# Biomedical Sciences, BS: Diagnostic Imaging Completion

## Diagnostic Imaging Degree Completion

An aging workforce, new technologies, and growing demand for Bachelor's prepared health professionals make this a great time to enroll in the Bachelor of Science in Biomedical Sciences: Diagnostic Imaging degree program.

Available in a fully online semester-based program or the competency-based UW Flexible Option program, this degree prepares you for a wide range of positions and leadership roles in the health care industry, including quality-assurance manager, healthcare administrator, diagnostic imaging educator, and others that require a bachelor's degree for entry to advanced education programs. With a Bachelor of Science in Diagnostic Imaging, you will also be qualified to expand your career into other areas of the medical imaging industry and health-related industries.

This degree completion is designed for healthcare professionals who hold active ARDMS (American Registry for Diagnostic Medical Sonography), ARMRIT (American Registry of Magnetic Resonance Imaging Technologists), ARRT (American Registry of Radiologic Technologists), or CCI (Cardiovascular Credentialing International) registry. **Students with active registries are awarded at least 60 advanced standing credits.** You'll complete a curriculum designed to learn the skills and knowledge most employers value. Please see the requirements tab for details of admission and program curriculum.

## Program Outcomes

- Integrate leadership, management, teaching/learning methods, and healthcare regulations into professional practice.
- Display effective communication skills as appropriate to a given situation or encounter.
- Demonstrate integrative problem-solving, analytical, and critical thinking skills.
- Demonstrate commitment to professional growth, ethical values, career development, scholarly activities, and contributions to the profession and post-baccalaureate education.
- Demonstrate the breadth and depth of the university educational preparation, including understanding culturally diverse communities.

Learn more about the UW Flexible Option (<https://flex.wisconsin.edu/degrees-programs/diagnostic-imaging/>).

## Requirements

Offered Online and in the UW FLEX Option format.

This interdisciplinary degree completion program in Diagnostic Imaging is open to professionals holding an active registry from ARRT, ARDMS, CCI, or equivalent professional imaging registry. Applicants with the required credentials are awarded 30 block credits plus natural transfer credits equaling a minimum of 60 credits and a maximum of 72 credits. (A maximum of 72-semester credits can be transferred from a single or combination of associate degree/2-year institutions. There is no maximum number of semester credits that can be transferred from a 4-year university). A minimum of 120 credits is required to complete the bachelor's degree including all required courses. The final 30 credits must be completed at UWM. Students with GER requirements or those planning application to specific professional graduate programs may need to complete more credits. Coursework may be completed online or in a flexible, competency-based format.

The minimum degree requirement for completion is 120 credits including:

1. Completion of UWM's General Education Requirements (GER) (p. 30) and competencies.
  - a. ENGLISH 206 or ENGLISH 207 and KIN 270 are recommended if competencies are not met on transfer.
2. A cumulative UWM GPA of 2.5.
3. The flexible option requires a B- or better grade in all required courses.
4. Completion of the following courses:

Code	Title	Credits
<b>Awarded for Active Registry</b>		
30 credits		
<b>Major Requirements</b>		
<i>Core requirements</i> <sup>1</sup>		
HS 102	Healthcare Delivery in the United States	3
BMS 205	Introduction to Diagnostic Medicine	3
HCA 220	Leading Healthcare Professionals	3
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
<i>Advanced Health Sciences/Imaging coursework</i> <sup>1</sup>		
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I	1



BMS 303	Human Pathophysiology: Organ Systems II	1
BMS 304	Human Pathophysiology: Organ Systems III	1
BMS 305	Human Pathophysiology: Organ Systems IV	1
HS 311	Law and Ethics for Healthcare Professionals	3
DMI 458	Seminar in Advanced Medical Imaging	3
DMI 463	Seminar in Education and Management in Medical Imaging	3
DMI 496	Professional Growth and Career Advancement in Diagnostic Imaging Professions	3
UWS NSG 453	Information Management and Healthcare Technology	3
BMS 435	Foundations of Interprofessional Education and Practice	3
<i>Electives</i> <sup>2</sup>		25
<b>Total Credits</b>		<b>60</b>

<sup>1</sup> Completed with a grade of C or better. Flexible option courses must be completed with a grade of B- or better.

<sup>2</sup> Electives to include QLB and OWCB if needed. KIN 270 or equivalent recommended for students planning on graduate education.

Students must complete all requirements within 6 years of entering the program.

Students interested in UW Flexible Option can find additional information here (<https://flex.wisconsin.edu/degrees-programs/diagnostic-imaging/>).

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biomedical Sciences, BS: Diagnostic Medical Sonography

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

## Diagnostic Medical Sonography

By using high-frequency sound waves or ultrasound, sonographers produce images of soft tissue and blood flow to assist with the diagnostic process or administration of therapeutic application. Sonography is used to examine the abdomen, breast tissue, female reproductive system, urinary system, heart, and blood vessels. In addition, sound waves are used to guide fine-needle biopsy. Diagnostic Medical Sonography students complete the first two years of prerequisite courses on campus before applying for placement into the professional education portion of the curriculum. Once accepted into the professional education component of the program, students will take didactic and clinical education courses concurrently. Upon successful completion of the Bachelor of Science degree, students are eligible to write the national board exams offered through the American Registry for Diagnostic Medical Sonography ([www.ardms.org](http://www.ardms.org/) (<http://www.ardms.org/>)). The Diagnostic Medical Sonography professional education program is accredited by the Commission on Accreditation of Allied Health Education Programs ([www.caahep.org](http://www.caahep.org/) (<http://www.caahep.org/>)) upon recommendation of the Joint Review Committee on Education in Diagnostic Medical Sonography.

Commission on Accreditation of Allied Health Education Programs  
(CAAHEP)  
25400 U.S. Highway 19 North, Suite 158  
Clearwater, FL 33763  
(727) 210-2354

## Requirements

Students pursuing Diagnostic Medical Sonography complete their freshman and sophomore years on campus. Upon advancement to the major, students complete the professional training curriculum (junior and senior years) at one of three external clinical affiliate sites: Froedtert Hospital (Milwaukee), Advocate Aurora St. Luke's (Milwaukee), or UW Hospital and Clinics (Madison, WI). Two educational options

are available: General/Vascular Sonography or Echocardiography/Vascular Sonography. Students are responsible for any relocation and all living expenses during clinical training. Requirements for entry into the professional programs may vary by site; students should contact the Academic Advisor for this program, Bill Mueller, for the most current site/program requirements. Mr. Mueller may be reached via e-mail at [muellew@uwm.edu](mailto:muellew@uwm.edu).

Entry into the clinical major is competitive, with the minimum requirements listed below. Completion of the minimum requirements does not guarantee admission.

1. Completion of UWM's General Education Requirements (GER) (p. 30).
2. Completion of all required courses and electives (56 credits) in the preclinical semesters with a cumulative GPA of 3.0; a maximum of 4 courses may be repeated once.
3. Successful completion of the professional education application process to include an on-site interview with the external sonography programs.
4. Successful completion of a background check, health physical, drug screen, and maintenance of health insurance and CPR certification for the duration of the professional curriculum.
5. Students are required to earn a grade of C or better in the following:

Code	Title	Credits
DMI 300	Diagnostic Medical Imaging Fundamentals	2
BIO SCI 202	Anatomy and Physiology I	4
CHEM 100	Chemical Science	4
BIO SCI 203	Anatomy and Physiology II	4
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I	1
BMS 303	Human Pathophysiology: Organ Systems II	1
BMS 304	Human Pathophysiology: Organ Systems III	1
BMS 305	Human Pathophysiology: Organ Systems IV	1

6. Complete a minimum of eight hours shadowing a sonographer: four hours of cardiac sonography and four hours in general sonography with a Registered Diagnostic Medical Sonography professional prior to applying for placement into the professional education component.
7. Completion of a CNA (Certified Nursing Assistant) course is required for the clinical application and placement. View a list of WI nurse aide training programs at [www.dhs.wisconsin.gov/caregiver/](http://www.dhs.wisconsin.gov/caregiver/) (<http://www.dhs.wisconsin.gov/caregiver/>).

Admission into the professional training curriculum is highly competitive and final admission decisions rest with the program directors. Admission is not guaranteed. To remain eligible to continue in the professional training curriculum, students must adhere to all program policies and procedures.

Code	Title	Credits
<b>Preclinical Requirements</b>		
<i>General Education Requirements</i>		
Oral and Written Communication (OWC) Competency Part A & B		

Quantitative Literacy (QL) Competency Part A and B		
Foreign Language Competency		
Arts		3
Humanities		
Natural Sciences <sup>1</sup>		
Social Sciences <sup>1</sup>		
Cultural Diversity <sup>1</sup>		
<i>Major Requirements</i>		
HS 222	Language of Medicine	3
HS 224	Computational Tools for Healthcare Professionals	3
CHEM 100	Chemical Science	4
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
BIO SCI 150	Foundations of Biological Sciences I	4
DMI 300	Diagnostic Medical Imaging Fundamentals	2
BMS 205	Introduction to Diagnostic Medicine	3
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective (SS/CD)	3
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I	1
BMS 303	Human Pathophysiology: Organ Systems II	1
BMS 304	Human Pathophysiology: Organ Systems III	1
BMS 305	Human Pathophysiology: Organ Systems IV	1
COMMUN 103	Public Speaking (HU)	3
COMSDIS 250	Interprofessional Communication in the Health Sciences (SS)	3
DMI 101	Introduction to Medical Imaging	1
KIN 270	Statistics in the Health Professions: Theory and Practice	3
ENGLISH 207	Health Science Writing	3
PHILOS 244	Ethical Issues in Health Care: (HU)	3
<b>Professional &amp; Clinical Training<sup>2</sup></b>		
DMI 311	Abdominal Sonography-I	3
DMI 312	Abdominal Sonography-II	3
DMI 313	Sonography Clinical Education I	3
DMI 319	Abdominal Sonography III	3
DMI 320	Obstetrics/Gynecology Sonography I	3
DMI 321	Obstetrics/Gynecology Sonography II	3
DMI 322	Obstetrics/Gynecology Sonography III	3
DMI 323	Sonographic Principles and Instrumentation	3
DMI 324	Sonography Clinical Education II	3
DMI 325	Specialized Sonography	3
DMI 326	Sonography Clinical Education III	3
DMI 327	Foundations of Sonography I	2
DMI 328	Foundations of Sonography II	1
DMI 402	Introduction to MSK Sonography	3
DMI 450	Vascular Sonography I	3

DMI 451	Vascular Sonography II	3
DMI 452	Sonography Clinical Education IV	3
DMI 453	Seminar in OB/GYN Sonography	3
DMI 454	Embryology of the Heart	3
DMI 455	Vascular Sonography III	3
DMI 457	Sonography Clinical Education V	4
DMI 458	Seminar in Advanced Medical Imaging	3
DMI 460	Professional Development in Sonography - Seminar	3
DMI 461	Sonography Clinical Education VI	3
DMI 463	Seminar in Education and Management in Medical Imaging	3
DMI 464	Introduction to Pediatric Sonography/ Neurosonography	3
<b>Total Credits</b>		<b>130</b>

<sup>1</sup> Credit may be utilized in required curriculum areas.  
<sup>2</sup> Example of the general/vascular curriculum provided. Curriculum course list and sequence given to student upon advancement to major.

## Pre-Professional Training Requirements

Year 1		Credits
<b>Spring</b>		
BIO SCI 203	Anatomy and Physiology II *	4
HS 222	Language of Medicine	3
KIN 270	Statistics in the Health Professions: Theory and Practice (QLB)	3
PHILOS 244	Ethical Issues in Health Care: (HU)	3
<b>Credits</b>		<b>13</b>
<b>Fall</b>		
BIO SCI 202	Anatomy and Physiology I *	4
BMS 205	Introduction to Diagnostic Medicine	3
COMMUN 103	Public Speaking (HU)	3
CHEM 100	Chemical Science *	4
DMI 101	Introduction to Medical Imaging	1
<b>Credits</b>		<b>15</b>
<b>Year 2</b>		
<b>Spring</b>		
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective (SS/CD)	3
BMS 304	Human Pathophysiology: Organ Systems III *	1
BMS 305	Human Pathophysiology: Organ Systems IV *	1
HS 224	Computational Tools for Healthcare Professionals	3
ENGLISH 207	Health Science Writing (OWCB)	3
GER Elective (Arts)		3
<b>Credits</b>		<b>14</b>
<b>Fall</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BMS 301	Human Pathophysiology: Fundamentals *	1
BMS 302	Human Pathophysiology: Organ Systems I *	1
BMS 303	Human Pathophysiology: Organ Systems II *	1
COMSDIS 250	Interprofessional Communication in the Health Sciences (SS)	3
DMI 300	Diagnostic Medical Imaging Fundamentals *	2
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>54</b>

\* Requires grade of C or better.

## Professional Training Curriculum Course List: General/Vascular

(Curriculum course list and sequence provided to student upon advancement to major.)

Code	Title	Credits
DMI 311	Abdominal Sonography-I	3
DMI 312	Abdominal Sonography-II	3
DMI 313	Sonography Clinical Education I	3
DMI 319	Abdominal Sonography III	3
DMI 320	Obstetrics/Gynecology Sonography I	3
DMI 321	Obstetrics/Gynecology Sonography II	3
DMI 322	Obstetrics/Gynecology Sonography III	3
DMI 323	Sonographic Principles and Instrumentation	3
DMI 324	Sonography Clinical Education II	3
DMI 325	Specialized Sonography	3
DMI 326	Sonography Clinical Education III	3
DMI 327	Foundations of Sonography I	2
DMI 328	Foundations of Sonography II	1
DMI 402	Introduction to MSK Sonography	3
DMI 450	Vascular Sonography I	3
DMI 451	Vascular Sonography II	3
DMI 452	Sonography Clinical Education IV	3
DMI 453	Seminar in OB/GYN Sonography	3
DMI 454	Embryology of the Heart	3
DMI 455	Vascular Sonography III	3
DMI 457	Sonography Clinical Education V	4
DMI 458	Seminar in Advanced Medical Imaging	3
DMI 460	Professional Development in Sonography - Seminar	3
DMI 461	Sonography Clinical Education VI	3
DMI 463	Seminar in Education and Management in Medical Imaging	3
DMI 464	Introduction to Pediatric Sonography/ Neurosonography	3
<b>Total Credits</b>		<b>76</b>

## Professional Training Curriculum Course List: Echocardiography/Vascular

(Curriculum course list and sequence provided to student upon advancement to major.)

Code	Title	Credits
DMI 310	Introduction to Sonography	3
DMI 323	Sonographic Principles and Instrumentation	3
DMI 336	Cardiovascular Principles I	3
DMI 337	Clinical Education I - Echocardiography	3

DMI 340	Embryology of the Cardiovascular System	2
DMI 341	Adult Echocardiography - Valvular Pathology	3
DMI 342	Clinical Education II - Echocardiography	3
DMI 345	Pediatric Echocardiography I	3
DMI 346	Adult Echocardiography II - Cardiomyopathies	3
DMI 347	Clinical Education III - Echocardiography	3
DMI 435	Adult Echocardiography - Advanced Pathology	3
DMI 436	Pediatric Echocardiography II	3
DMI 437	Stress Echocardiography	3
DMI 438	Clinical Education IV - Echocardiography	3
DMI 439	Clinical Education V - Echocardiography	4
DMI 440	Clinical Education VI - Echocardiography	3
DMI 441	Special Procedures in Echocardiography	3
DMI 450	Vascular Sonography I	3
DMI 451	Vascular Sonography II	3
DMI 454	Embryology of the Heart	3
DMI 455	Vascular Sonography III	3
DMI 458	Seminar in Advanced Medical Imaging	3
DMI 460	Professional Development in Sonography - Seminar	3
DMI 463	Seminar in Education and Management in Medical Imaging	3
<b>Total Credits</b>		<b>72</b>

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biomedical Sciences, BS: Health Science Completion

### Health Sciences Degree Completion

Health science is the application of science to health, including the study of medicine, nutrition, and other health-related topics and how they affect humans. An aging workforce, new technologies, and continuous demand for experienced healthcare professionals make this the perfect time to enroll in the Bachelor of Science in Biomedical Sciences: Health Sciences degree completion sub-major. Stay competitive in today's job market and improve your opportunity for career advancement or career change.

Available in a semester-based online format or and the self-paced, competency-based (<https://flex.wisconsin.edu/blog/competency-based-education-what-it-is-how-its-different-and-why-it-matters-to-you/>) UW Flexible Option format, this degree completion program offers you the opportunity to build on your previous education and develop or strengthen skills in critical thinking, problem-solving, information literacy, informatics, management, and education in the health professions. Graduates are prepared to assume roles in clinical and non-clinical settings such as hospitals and other patient care facilities, government organizations, or insurance companies. This program may also provide the foundation required for entry into advanced degree programs such as physical or occupational therapy, physician's assistance, and more.

This bachelor's degree is designed for learners returning to higher education with an associate degree in any field or at least 60 transferrable credits. **Associate degree holders are awarded at least 60 advanced standing credits.** You'll complete a curriculum designed to learn the skills and knowledge most employers value. Please see the requirements tab for details of admission and program curriculum.

### Program Outcomes

- Integrate leadership, management, teaching/learning methods, and healthcare regulations into professional practice.
- Display effective communication skills as appropriate to a given situation or encounter.
- Demonstrate integrative problem-solving, analytical, and critical thinking skills.
- Demonstrate commitment to professional growth, ethical values, career development, scholarly activities, and contributions to the profession and post-baccalaureate education.
- Demonstrate the breadth and depth of the university educational preparation, including understanding culturally diverse communities.

Learn more about the UW Flexible Option. (<https://flex.wisconsin.edu/degrees-programs/health-sciences/>)

## Requirements

Offered Online, Blended and in the UW Flexible Option format.

This interdisciplinary degree completion in Health Sciences is open to those holding an associate degree or with 60 transferrable credits. Applicants holding an associate degree are awarded 30 block credits plus

natural transfer credits equaling a minimum of 60 credits and a maximum of 72 credits. Applicants with 60 transferrable credits are awarded actual advanced standing credit. (A maximum of 72 semester credits can be transferred from a single or combination of associate degree/2-year institutions. There is no maximum number of semester credits that can be transferred from a 4-year university). A minimum of 120 credits is required to complete the bachelor's degree including all required courses. The final 30 credits must be completed at UWM. Students with GER requirements or those planning applications to specific professional graduate programs may need to complete more credits. Coursework may be completed online or in a flexible, competency-based format.

The minimum degree requirement for completion is 120 credits including:

1. Completion of UWM's General Education Requirements (GER) (p. 30), and
2. Completion of math and English competency requirements, and
  - a. ENGLISH 207 or ENGLISH 206 and KIN 270 are recommended if competencies are not previously completed
3. A cumulative UWM GPA of 2.5, and
4. A minimum of 30 credits from UWM.

Code	Title	Credits
<b>Major Requirements</b>		
<i>Required</i>		
HS 102	Healthcare Delivery in the United States	3
HCA 220	Leading Healthcare Professionals	3
BMS 205	Introduction to Diagnostic Medicine	3
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
BMS 260	Introduction to Complementary and Integrative Health Approaches	3
THERREC 202	Disability: Society and the Person	3
<i>Advanced Health Sciences Coursework</i>		
HS 311	Law and Ethics for Healthcare Professionals	3
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I	1
BMS 303	Human Pathophysiology: Organ Systems II	1
BMS 433	Teamwork in the Health Professions	3
BMS 434	Professional Development in the Health Sciences	3
BMS 435	Foundations of Interprofessional Education and Practice	3
THERREC 303	Inclusive and Disability Programs in the Community	3
<i>Electives</i>		24
<b>Total Credits</b>		<b>60</b>

Students must complete all requirements within 6 years of entering the program.

Students interested in UW Flexible Option can find additional information here (<https://flex.wisconsin.edu/degrees-programs/health-sciences/>).

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biomedical Sciences, BS: Health Sciences

### Biomedical Sciences: Health Sciences

Have you completed at least thirty credits toward your bachelor's degree? Do you want to finish your bachelor's degree in a health-related field? Do you need a flexible curriculum that makes the most of your previously earned credits? An aging workforce, new technologies, and continuous demand for bachelor's prepared healthcare professionals make this the perfect time to finish your Bachelor of Science in Biomedical Sciences: Health Sciences degree.

The Biomedical Sciences: Health Sciences sub-major allows you to build on completed coursework and to develop or strengthen skills in critical thinking, problem-solving, information literacy, informatics, management, and education in the health professions. The flexible curriculum allows you to include undergraduate certificates related to disability, health and wellness, informatics, and healthcare administration.

### Program Competencies

- Integrate leadership, management, teaching/learning methods, and healthcare regulations.
- Display effective communication skills as appropriate to a given situation or encounter.
- Demonstrate integrative problem-solving and critical-thinking skills.
- Demonstrate commitment to professional growth, ethical values, career development, and teamwork.

- Demonstrate the breadth and depth of the university educational preparation, including the understanding of culturally diverse communities.
- Demonstrate technological and office skills.

Please see the requirements tab for the complete curriculum and contact Kenzie Kougale (mlkougale@uwm.edu) in the College of Health Professions and Sciences for more information. Don't leave your completed credits behind!

## Requirements

The interdisciplinary Biomedical Sciences: Health Sciences submajor is open to those who have successfully completed 30 or more credits as intended majors at a four year or two year institution. It is not open for new freshman.

The minimum degree requirement for completion is 120 credits including:

1. Completion of UWM's General Education requirements (GER) (p. 30), and
2. Completion of math and English competency requirements, and
3. A cumulative UWM GPA of 2.5, and
4. A final 30 credits from UW-Milwaukee.

Student plans of study are individualized based on previously completed coursework and student learning and professional goals. Credits must be distributed as follows:

Code	Title	Credits
GER and competencies		36
Lower division health credits (excess upper level credits may count for lower division health credit requirements) <sup>1</sup>		27
Upper division health credits; credits must be at the 300 level or above <sup>1</sup>		27
General electives		30
<i>BMS Required Coursework (12 credits)<sup>2</sup></i>		
BMS 433	Teamwork in the Health Professions	
BMS 434	Professional Development in the Health Sciences	
Additional BMS or DMI Course Electives (6 credits)		
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> 30 credits must be earned with CHPS. CHPS credits may be earned in the following subject areas: BMS (p. 1518), COMSDIS (p. 1641), DMI (p. 1705), HCA (p. 1856), HS (p. 1863), NURS (p. 2026), OCCTHPY (p. 2046), PEACEST (p. 2055), and THERREC (p. 2154). The other 24 required health credits can be within CHPS or Zilber College of Public Health or as approved by the program director.

<sup>2</sup> 12 credits of BMS coursework is required. BMS 433 and BMS 434 will be applied to the 'Upper division health science credit'. The additional 6 BMS elective credits will be applied to lower or upper division credit depending on the course level.

## Admission to the Major

Students must have:

- Completion of 30 credits as intended majors at a four year or two year institution
- Satisfactory academic standing

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biomedical Sciences, BS: Medical Laboratory Science

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

## Medical Laboratory Science

Medical laboratory scientists are trained in the theoretical and practical aspects of laboratory medicine, which are critical to the detection, diagnosis, and treatment of diseases. Medical Laboratory Science

offers a wide variety of career options, including hospitals, clinics, independent laboratories, public health facilities, and research. Students also may use this major to prepare for medical or graduate school. Students successfully completing this program are eligible to sit for a national certification exam offered by the American Society for Clinical Pathology (ASCP-BOC). The UWM Medical Laboratory Science Program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), [www.naacls.org](http://www.naacls.org) (<http://www.naacls.org>), located at 5600 N. River Road, Suite 720, Rosemont, IL 60018-5119.

## Requirements

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM's General Education Requirements (GER) (p. 30);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of:
  - a. all required courses and electives (87 credits) through the second semester of junior year for students pursuing Cytotechnology, or Medical Laboratory Science;
  - b. all required courses and electives (114 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses.

## Degree Requirements

Code	Title	Credits
<b>University Core</b>		
<i>Competency Requirements</i>		
Oral and Written Communication (OWC) Part A & B		
Quantitative Literacy (QL) Part A & B		
Foreign Language		
<i>Distribution Requirements</i>		
Arts		3
Cultural Diversity		3
Humanities		6
Natural Sciences		6
Social Sciences		6
<b>Biomedical Science Core</b>		
BIO SCI 150	Foundations of Biological Sciences I <sup>1</sup>	4

BIO SCI 202	Anatomy and Physiology I <sup>1</sup>	4
BIO SCI 203	Anatomy and Physiology II <sup>1</sup>	4
BIO SCI 325	Genetics <sup>1</sup>	4
BIO SCI 383	General Microbiology <sup>1</sup>	4
BMS 205	Introduction to Diagnostic Medicine	3
BMS 301 & BMS 302 & BMS 303 & BMS 304 & BMS 305	Human Pathophysiology: Fundamentals and Human Pathophysiology: Organ Systems I and Human Pathophysiology: Organ Systems II and Human Pathophysiology: Organ Systems III and Human Pathophysiology: Organ Systems IV <sup>1</sup>	5
BMS 427	Clinical Immunology <sup>1</sup>	3
BMS 428	Clinical Immunology Laboratory <sup>1</sup>	1
BMS 534	Medical Microbiology	3
BMS 535	Medical Microbiology Laboratory	2
BMS 536	Applied Clinical Microbiology	2
BMS 537	Medical Parasitology and Mycology	2
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1
CHEM 102	General Chemistry <sup>1</sup>	5
CHEM 104	General Chemistry and Qualitative Analysis <sup>1</sup>	5
CHEM 341	Introductory Survey of Organic Chemistry <sup>1</sup>	3
CHEM 342	Introductory Organic Chemistry Laboratory <sup>1</sup>	2
CHEM 501	Introduction to Biochemistry <sup>1</sup>	3
HS 224	Computational Tools for Healthcare Professionals	3
KIN 270	Statistics in the Health Professions: Theory and Practice	3

<sup>1</sup> Course counts towards a student's science GPA.

## Pre-Clinical Requirements

The junior year for students pursuing the Cytotechnology, or Medical Laboratory Science submajor consists primarily of pre-clinical courses, and the senior year is a 12-month professional training experience.

Medical Laboratory Science and Cytotechnology students must be prepared for full-time study (40 hours per week) that could also require additional study time at night and on weekends.

Code	Title	Credits
BMS 101	Introduction to Clinical Laboratory Sciences <sup>2</sup>	2
BMS 205	Introduction to Diagnostic Medicine <sup>2</sup>	3
BMS 420	Clinical Hematology	3
BMS 421	Introduction To Hematology Laboratory	1
BMS 431	Clinical Chemistry	3
BMS 432	Clinical Chemistry Laboratory Theory & Operations	1
BMS 521	Applied Clinical Hematology	2

BMS 522	Hemostasis	1
BMS 534	Medical Microbiology	3
BMS 535	Medical Microbiology Laboratory	2
BMS 536	Applied Clinical Microbiology	2
BMS 537	Medical Parasitology and Mycology	2
BMS 541	Urinalysis	1
BMS 542	Applied Clinical Chemistry	2
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

<sup>2</sup> BMS 101 and BMS 205 are highly recommended but not required.

## Medical Laboratory Submajor Requirements

Code	Title	Credits
BMS 523	Lectures in Advanced Clinical Hematology	1
BMS 529	Introduction to Immunohematology	3
BMS 524	Advanced Clinical Hematology Practicum	3
BMS 530	Immunohematology and Blood Banking Laboratory	1
BMS 531	Advanced Lectures in the Clinical Laboratory Sciences	1
BMS 532	Advanced Clinical Immunohematology and Immunology	3
BMS 538	Advanced Clinical Microbiology Practicum	3
BMS 544	Advanced Clinical Chemistry Practicum	3
BMS 547	Clinical Laboratory Diagnosis	5
BMS 548	Clinical Laboratory Practice	5
BMS 549	Professional Development in Clinical Laboratory Sciences	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1

## Biomedical Sciences Requirements

Year 1		
Semester 1		Credits
BIO SCI 202	Anatomy and Physiology I	4
BMS 101	Introduction to Clinical Laboratory Sciences <sup>1</sup>	2
BMS 205	Introduction to Diagnostic Medicine <sup>1</sup>	3
CHEM 102	General Chemistry	5
GER Elective: Arts		3
<b>Credits</b>		<b>17</b>
Semester 2		
BIO SCI 203	Anatomy and Physiology II	4
CHEM 104	General Chemistry and Qualitative Analysis	5
HS 224	Computational Tools for Healthcare Professionals	3
GER Elective: Humanities		3
<b>Credits</b>		<b>15</b>
Year 2		
Semester 1		
BIO SCI 150	Foundations of Biological Sciences I	4
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I	1

BMS 303	Human Pathophysiology: Organ Systems II	1
CHEM 341	Introductory Survey of Organic Chemistry	3
CHEM 342	Introductory Organic Chemistry Laboratory	2
ENGLISH 207	Health Science Writing (OWCB) <sup>2</sup>	3

**Credits** **15**

### Semester 2

BIO SCI 325	Genetics	4
BMS 304	Human Pathophysiology: Organ Systems III	1
BMS 305	Human Pathophysiology: Organ Systems IV	1
KIN 270	Statistics in the Health Professions: Theory and Practice (QLB)	3

GER Elective: Social Science 3

GER Elective: Social Science 3

**Credits** **15**

### Year 3

#### Semester 1

BIO SCI 383	General Microbiology	4
BMS 427	Clinical Immunology	3
BMS 428	Clinical Immunology Laboratory	1
CHEM 501	Introduction to Biochemistry	3
GER Elective: Humanities		3

**Credits** **14**

#### Semester 2

BMS 420	Clinical Hematology	3
BMS 421	Introduction To Hematology Laboratory	1
BMS 431	Clinical Chemistry	3
BMS 432	Clinical Chemistry Laboratory Theory & Operations	1
BMS 534	Medical Microbiology	3
BMS 535	Medical Microbiology Laboratory	2
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

**Credits** **16**

### Year 4

#### Summer

BMS 521	Applied Clinical Hematology	2
BMS 522	Hemostasis	1
BMS 536	Applied Clinical Microbiology	2
BMS 537	Medical Parasitology and Mycology	2
BMS 541	Urinalysis	1
BMS 542	Applied Clinical Chemistry	2

**Credits** **10**

**Total Credits** **102**

<sup>1</sup> BMS 101 and BMS 205 are highly recommended but not required.

<sup>2</sup> ENGLISH 207 is required for students without any credit prior to Fall 2013.

## Medical Laboratory Submajor Requirements

### Year 4

#### Semester 1

BMS 523	Lectures in Advanced Clinical Hematology	1
BMS 529	Introduction to Immunohematology	3
BMS 530	Immunohematology and Blood Banking Laboratory	1
BMS 547	Clinical Laboratory Diagnosis	5
BMS 548	Clinical Laboratory Practice	5
BMS 555	Toxicology and Therapeutic Drug Monitoring	1

**Credits** **16**

#### Semester 2

BMS 524	Advanced Clinical Hematology Practicum	3
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BMS 531	Advanced Lectures in the Clinical Laboratory Sciences	1
BMS 532	Advanced Clinical Immunohematology and Immunology	3
BMS 538	Advanced Clinical Microbiology Practicum	3
BMS 544	Advanced Clinical Chemistry Practicum	3
BMS 549	Professional Development in Clinical Laboratory Sciences	3
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>32</b>

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biomedical Sciences, BS: Public Health Microbiology

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

## Public Health Microbiology

Public health microbiology prepares students for a career in the laboratory disciplines of public health. Specifically, students will be educated in a broad range of sciences in order to perform investigatory and laboratory-based analyses of environmental samples for microbial contaminants of interest. Emphasis is placed on pathogenic disease and the human populations that they affect. Graduates can work in a variety of settings, such as public health, hospital and research laboratories. Students successfully completing this program may sit for the American Society for Clinical Pathology (ASCP-BOC) Technologist in Microbiology national certification exam.

## Requirements

Students must achieve the satisfactory completion of 127 credits.

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. All students, with the exception of students in the Diagnostic Imaging or Health Sciences degree completion program, will be required to comply with a background check and maintain health insurance during the professional training experience.

The process of application to the professional training occurs at the end of the first semester of the junior year.

Entry into professional training or internship is competitive and dependent upon:

1. Completion of UWM's General Education Requirements (GER) (p. 30);
2. A cumulative UWM minimum grade point average of 2.5;
3. A cumulative minimum grade point average of 2.5 in specific, required science courses;
4. Completion of:
  - a. all required courses and electives (87 credits) through the second semester of junior year for students pursuing Cytotechnology, or Medical Laboratory Science;
  - b. all required courses and electives (114 credits) through the first semester of senior year for students pursuing Public Health Microbiology; and
5. A grade of C or better in all junior-level courses.

Students who meet these minimum requirements for entry into professional training will be evaluated on the basis of their science GPA for placement at one of the training sites.

To remain eligible to continue in the professional training, students must earn a grade of C or better in all senior-level courses.

## Degree Requirements

Code	Title	Credits
<b>University Core</b>		
<i>Competency Requirements</i>		
Oral and Written Communication (OWC) Part A & B		
Quantitative Literacy (QL) Part A & B		
Foreign Language		
<i>Distribution Requirements</i>		
	Arts	3
	Cultural Diversity	3
	Humanities	6

Natural Sciences		6
Social Sciences		6
<b>Biomedical Science Core</b>		
BIO SCI 150	Foundations of Biological Sciences I <sup>1</sup>	4
BIO SCI 202	Anatomy and Physiology I <sup>1</sup>	4
BIO SCI 203	Anatomy and Physiology II <sup>1</sup>	4
BIO SCI 325	Genetics <sup>1</sup>	4
BIO SCI 383	General Microbiology <sup>1</sup>	4
BMS 205	Introduction to Diagnostic Medicine	3
BMS 301 & BMS 302 & BMS 303 & BMS 304 & BMS 305	Human Pathophysiology: Fundamentals and Human Pathophysiology: Organ Systems I and Human Pathophysiology: Organ Systems II and Human Pathophysiology: Organ Systems III and Human Pathophysiology: Organ Systems IV <sup>1</sup>	5
BMS 427	Clinical Immunology <sup>1</sup>	3
BMS 428	Clinical Immunology Laboratory <sup>1</sup>	1
BMS 534	Medical Microbiology	3
BMS 535	Medical Microbiology Laboratory	2
BMS 536	Applied Clinical Microbiology	2
BMS 537	Medical Parasitology and Mycology	2
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1
CHEM 102	General Chemistry <sup>1</sup>	5
CHEM 104	General Chemistry and Qualitative Analysis <sup>1</sup>	5
CHEM 341	Introductory Survey of Organic Chemistry <sup>1</sup>	3
CHEM 342	Introductory Organic Chemistry Laboratory <sup>1</sup>	2
CHEM 501	Introduction to Biochemistry <sup>1</sup>	3
HS 224	Computational Tools for Healthcare Professionals	3
KIN 270	Statistics in the Health Professions: Theory and Practice	3

<sup>1</sup> Course counts towards a student's science GPA.

## Public Health Microbiology Requirements

Students in the Public Health Microbiology submajor complete an eight-week internship with the City of Milwaukee Health Department. The process of application to the professional training occurs at the end of the first semester of the junior year.

Code	Title	Credits
BIO SCI 405	General Virology	3
BMS 201	Sexually Transmitted Diseases and AIDS	3
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
BMS 531	Advanced Lectures in the Clinical Laboratory Sciences	1

BMS 538	Advanced Clinical Microbiology Practicum	3
BMS 539	Public Health Microbiology	2
BMS 540	Public Health Microbiology Lab	2
BMS 547	Clinical Laboratory Diagnosis	2
BMS 548	Clinical Laboratory Practice	2
BMS 549	Professional Development in Clinical Laboratory Sciences	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
ENGLISH 205	Business Writing	3
HCA 212	Drugs Used and Abused	3
HCA 307	Epidemiology for the Health Sciences	3
HS 101	Introduction to Health and Disease	2
HS 311	Law and Ethics for Healthcare Professionals	3
HS 222	Language of Medicine	3
Electives		8

## Plan of Study

### Year 1

Semester 1		Credits
BIO SCI 202	Anatomy and Physiology I	4
CHEM 102	General Chemistry	5
HS 101	Introduction to Health and Disease	2
HS 222	Language of Medicine	3
	<b>Credits</b>	<b>14</b>

### Semester 2

BIO SCI 203	Anatomy and Physiology II	4
CHEM 104	General Chemistry and Qualitative Analysis	5
HS 224	Computational Tools for Healthcare Professionals	3
GER Elective: Arts		3
	<b>Credits</b>	<b>15</b>

### Year 2

Semester 1		Credits
BIO SCI 150	Foundations of Biological Sciences I	4
BMS 205	Introduction to Diagnostic Medicine	3
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I	1
BMS 303	Human Pathophysiology: Organ Systems II	1
CHEM 341	Introductory Survey of Organic Chemistry	3
CHEM 342	Introductory Organic Chemistry Laboratory	2
	<b>Credits</b>	<b>15</b>

### Semester 2

BIO SCI 325	Genetics	4
BMS 201	Sexually Transmitted Diseases and AIDS	3
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
BMS 304	Human Pathophysiology: Organ Systems III	1
BMS 305	Human Pathophysiology: Organ Systems IV	1
KIN 270	Statistics in the Health Professions: Theory and Practice (QLB)	3
	<b>Credits</b>	<b>15</b>

### Year 3

Semester 1		Credits
BIO SCI 383	General Microbiology	4
BMS 427	Clinical Immunology	3
BMS 428	Clinical Immunology Laboratory	1
CHEM 501	Introduction to Biochemistry	3

HCA 212	Drugs Used and Abused	3
<b>Credits</b>		<b>14</b>
<b>Semester 2</b>		
BMS 534	Medical Microbiology	3
BMS 535	Medical Microbiology Laboratory	2
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1
HCA 307	Epidemiology for the Health Sciences	3
HS 311	Law and Ethics for Healthcare Professionals	3
ENGLISH 205	Business Writing (OWCB)	3
<b>Credits</b>		<b>17</b>
<b>Summer</b>		
BMS 536	Applied Clinical Microbiology	2
BMS 537	Medical Parasitology and Mycology	2
Electives		4
<b>Credits</b>		<b>8</b>
<b>Year 4</b>		
<b>Semester 1</b>		
BMS 539	Public Health Microbiology	2
BMS 540	Public Health Microbiology Lab	2
BMS 547	Clinical Laboratory Diagnosis	2
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BIO SCI 405	General Virology	3
GER Elective: Humanities		3
<b>Credits</b>		<b>13</b>
<b>Semester 2</b>		
BMS 531	Advanced Lectures in the Clinical Laboratory Sciences	1
BMS 538	Advanced Clinical Microbiology Practicum	3
BMS 548	Clinical Laboratory Practice	2
BMS 549	Professional Development in Clinical Laboratory Sciences	3
GER Elective: Humanities		3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>123</b>

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biomedical Sciences, BS: Radiologic Technology

Students in the Biomedical Sciences major are awarded a Bachelor of Science degree upon completion of all requirements. Students choose from one of the following seven areas or submajors:

- Medical Laboratory Science
- Biomedical Science
- Cytotechnology
- Radiologic Technology
- Diagnostic Medical Sonography
- Diagnostic Imaging (degree completion program)
- Health Science (degree completion program)
- Public Health Microbiology

All students will be required to comply with a background check, drug screen, and maintain health insurance during the professional training experience.

## Radiologic Technology

Radiologic technologists, or radiographers, use X-Rays and administer contrast media to produce images of the human skeleton, chest, digestive tract, and urinary system. The radiographer works closely with the radiologist or physician. Students complete the first two years of prerequisite courses on campus before applying for placement into the professional education portion of the curriculum. Once accepted into the professional education component of the program, students will take didactic and clinical education courses concurrently. Upon successful completion of the Bachelor of Science degree, students are eligible to write the national registry exam administered by the American Registry of Radiologic Technologists ([www.arrt.org](https://www.arrt.org) (<https://www.arrt.org/>)).

The Radiologic Technology professional education programs are accredited by:

Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Dr., Suite 2850, Chicago, IL 60606. [www.jrcert.org](http://www.jrcert.org) (<http://www.jrcert.org/>)

## Requirements

Students pursuing the Biomedical Sciences: Radiologic Technology submajor complete the freshman and sophomore years on campus. Students accepted into the professional education curriculum complete the junior and senior years at either the on-campus UWM radiography program or off campus through external radiography programs offered at Froedtert Hospital in Milwaukee, UW Hospital & Clinics in Madison, Wheaton Franciscan All Saints in Racine, and Wheaton Franciscan St. Joseph in Milwaukee. Students are responsible for any relocation and all living expenses during clinical education.

Entry into professional training is competitive and dependent upon:

1. Completion of UWM's General Education Requirements (GER) (p. 30);
2. Completion of all required courses and electives (56 credits) in the freshman and sophomore semesters with a cumulative GPA of 2.5; a maximum of 4 courses may be repeated once.
3. Successful completion of the professional education application process to include an interview with the UWM radiography program and on-site interviews with the affiliated radiography programs;
4. Successful completion of a background check, health physical, and drug screen prior to the beginning of the professional curriculum, and maintenance of health insurance and CPR certification for the duration of the professional curriculum;
5. Students are required to earn a grade of C or better in the following:

Code	Title	Credits
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I	1
BMS 303	Human Pathophysiology: Organ Systems II	1
BMS 304	Human Pathophysiology: Organ Systems III	1
BMS 305	Human Pathophysiology: Organ Systems IV	1
CHEM 100	Chemical Science	4
DMI 300	Diagnostic Medical Imaging Fundamentals	2

6. Completion of a job-shadowing experience in an imaging department with a Radiologic Technology professional prior to applying for placement into the professional education component is required; and
7. Completion of a CNA (Certified Nursing Assistant) course is highly recommended, but not required. View a list of WI nurse aide training programs at [www.dhs.wisconsin.gov/caregiver/](http://www.dhs.wisconsin.gov/caregiver/) (<http://www.dhs.wisconsin.gov/caregiver/>).

Admission into the professional curriculum is competitive and final admission decisions rest with the program directors. Admission is not guaranteed. To remain eligible to continue in the professional education curriculum, students must adhere to all policies and procedures of the program they are attending. Once accepted into the professional education curriculum students will be provided with a copy of the program's policies and procedures.

An example of the radiologic technology curriculum may be found on the Plan of Study tab.

Code	Title	Credits
<b>Pre-Professional Requirements</b>		
<i>General Education Requirements</i>		
Oral and Written Communication (OWC) Competency Part A & B		
Quantitative Literacy (QL) Competency Part A and B		
Foreign Language Competency		
Arts		3
Humanities		3
Natural Sciences <sup>1</sup>		

## Social Sciences <sup>1</sup>

### Cultural Diversity <sup>1</sup>

#### Major Requirements

BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
BMS 205	Introduction to Diagnostic Medicine	3
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective (SS/CD)	3
BMS 301	Human Pathophysiology: Fundamentals	1
BMS 302	Human Pathophysiology: Organ Systems I	1
BMS 303	Human Pathophysiology: Organ Systems II	1
BMS 304	Human Pathophysiology: Organ Systems III	1
BMS 305	Human Pathophysiology: Organ Systems IV	1
CHEM 100	Chemical Science	4
COMSDIS 250	Interprofessional Communication in the Health Sciences (SS)	3
COMMUN 103	Public Speaking (HU)	3
DMI 101	Introduction to Medical Imaging	1
ENGLISH 207	Health Science Writing (OWCB)	3
HS 102	Healthcare Delivery in the United States	3
HS 222	Language of Medicine	3
HS 224	Computational Tools for Healthcare Professionals	3
HS 251	Health Documentation	1
KIN 270	Statistics in the Health Professions: Theory and Practice (QLB)	3
DMI 300	Diagnostic Medical Imaging Fundamentals	2

#### Professional & Clinical Training

DMI 306	Imaging Procedures I	5
DMI 307	Seminar in Radiography I	3
DMI 308	Imaging Procedures II	5
DMI 309	Imaging Procedures III	3
DMI 350	Introduction to Radiologic Science and Healthcare	2
DMI 351	Radiation Protection	2
DMI 353	Principles of Imaging I	3
DMI 355	Radiography Clinical Education I	3
DMI 360	Radiation Biology	2
DMI 362	Principles of Imaging II	3
DMI 364	Radiography Clinical Education II	3
DMI 372	Radiographic Clinical Education III	4
DMI 401	Seminar in Radiography II	2
DMI 470	Radiographic Physics	2
DMI 473	Imaging Procedures IV	2
DMI 474	Radiography Clinical Education IV	3
DMI 475	Seminar in Radiography III	2
DMI 477	Cross Sectional Anatomy	3
DMI 478	Radiologic Pathology	3
DMI 479	Radiography Clinical Education V	3

DMI 480	Seminar in Radiography IV	2
DMI 485	Professional Development in Radiography	2
DMI 486	Radiography Clinical Education VI	4
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Credit may be utilized in required curriculum areas.

## Pre-Professional Training Requirements

Year 1		
Fall		Credits
BIO SCI 202	Anatomy and Physiology I *	4
BMS 205	Introduction to Diagnostic Medicine	3
CHEM 100	Chemical Science *	4
DMI 101	Introduction to Medical Imaging	1
COMMUN 103	Public Speaking (HU)	3
<b>Credits</b>		<b>15</b>
Spring		
BIO SCI 203	Anatomy and Physiology II *	4
HS 102	Healthcare Delivery in the United States	3
HS 222	Language of Medicine	3
KIN 270	Statistics in the Health Professions: Theory and Practice (QLB)	3
<b>Credits</b>		<b>13</b>
Year 2		
Fall		Credits
BMS 301	Human Pathophysiology: Fundamentals *	1
BMS 302	Human Pathophysiology: Organ Systems I *	1
BMS 303	Human Pathophysiology: Organ Systems II *	1
COMSDIS 250	Interprofessional Communication in the Health Sciences (SS)	3
HS 224	Computational Tools for Healthcare Professionals	3
HS 251	Health Documentation	1
DMI 300	Diagnostic Medical Imaging Fundamentals *	2
<b>Credits</b>		<b>12</b>
Spring		
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective (SS/CD)	3
BMS 304	Human Pathophysiology: Organ Systems III *	1
BMS 305	Human Pathophysiology: Organ Systems IV *	1
ENGLISH 207	Health Science Writing (OWCB)	3
GER Arts		3
GER Humanities		3
<b>Credits</b>		<b>14</b>
<b>Total Credits</b>		<b>54</b>

\* Requires grade of C or better.

## Professional Training Curriculum Course List:

(Example of radiologic technology curriculum provided below. Curriculum course list and sequence provided to student upon advancement to major.)

Year 3		
Fall		Credits
DMI 306	Imaging Procedures I	5
DMI 350	Introduction to Radiologic Science and Healthcare	2
DMI 351	Radiation Protection	2
DMI 353	Principles of Imaging I	3

DMI 355	Radiography Clinical Education I	3
<b>Credits</b>		<b>15</b>
Spring		
DMI 307	Seminar in Radiography I	3
DMI 308	Imaging Procedures II	5
DMI 362	Principles of Imaging II	3
DMI 364	Radiography Clinical Education II	3
<b>Credits</b>		<b>14</b>
Summer		
DMI 309	Imaging Procedures III	3
DMI 372	Radiographic Clinical Education III	4
<b>Credits</b>		<b>7</b>
Year 4		
Fall		Credits
DMI 470	Radiographic Physics	2
DMI 473	Imaging Procedures IV	2
DMI 480	Seminar in Radiography IV	2
DMI 474	Radiography Clinical Education IV	3
DMI 477	Cross Sectional Anatomy	3
<b>Credits</b>		<b>12</b>
Spring		
DMI 360	Radiation Biology	2
DMI 401	Seminar in Radiography II	2
DMI 475	Seminar in Radiography III	2
DMI 478	Radiologic Pathology	3
DMI 479	Radiography Clinical Education V	3
<b>Credits</b>		<b>12</b>
Summer		
DMI 485	Professional Development in Radiography	2
DMI 486	Radiography Clinical Education VI	4
<b>Credits</b>		<b>6</b>
<b>Total Credits</b>		<b>66</b>

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biomedical Sciences, MS

The Biomedical Sciences Department offers a program of graduate education providing an advanced level of study for students interested in biology as it relates to human health, medicine, and disease. Major emphasis in the program is placed on developing an understanding of the mechanisms involved in human diseases and providing broad-based training in both basic and applied biomedical sciences. In-depth training is offered in selected areas of emphasis, such as immunology, the pathogenesis of infectious diseases, toxicology, pharmacology, neurodegeneration, and cancer biology. The MS degree has two tracks.

1. **Thesis Track** requirements include a thesis based on hypothesis-driven research conducted by the student to enhance problem-solving abilities and the student's capacity to function more effectively in the biomedical field.
2. The **Non-Thesis Track** is designed for students who want to gain knowledge in the biomedical sciences by taking courses focused on human health and disease without a research component. This track may be suitable for a variety of students, including those who currently work in a laboratory setting and wish to obtain a higher degree and those requiring a degree beyond the bachelor's level to teach.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following requirements to be considered for admission:

1. The program primarily enrolls individuals with backgrounds in biomedical sciences or related fields who have completed a bachelor's degree at an accredited institution. For students entering without a degree in a related area, the faculty determines deficiencies to be overcome prior to admission. Applications will not be reviewed until all required materials are obtained by the program. All completed applications received prior to February 1 will receive consideration for enrollment beginning the following Summer term for the Non-Thesis Track or Fall semester for the Thesis Track. Completed applications received after February 1 may be considered if space is available in the program. Students may enroll on a full-time or a part-time basis.
2. Applicants may be admitted to regular status if their grade point average is the equivalent of 2.75 or above (scale of 4.0). Averages below 2.75 may be considered for admission on a probationary basis, in which case particular attention is given to the last 60 hours completed in the undergraduate program, with special emphasis on performance in biomedical science-related courses. Probationary

status is removed after successful completion of the first eight graduate credits with a grade point average of 3.0 or above.

3. Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores on the General Test are optional, although encouraged.
4. Three letters of reference, preferably from academic and/or research sources or supervisors, must be provided.
5. The applicant must provide a statement of not more than 1,000 words providing career objectives and reasons for seeking a degree in the UWM Biomedical Sciences Graduate Program.
6. Students **must identify**, at the time of applying, whether they seek enrollment in the Thesis Track or Non-Thesis Track. Students wishing to change tracks after admission must receive approval of the program.

## Credits and Courses

The minimum degree requirement is 32 graduate credits.

### Thesis Track

Eighteen (18) core curricular credits and a minimum of 8 credits in research (BMS 799) must be taken. Substitutions to these courses require approval of the Program.

Code	Title	Credits
BMS 710	Seminar in Biomedical Sciences (1 credit per semester; 3 credits total)	3
BMS 717	Laboratory Technology-Theory and Practice	2
BMS 718	Experimental Design and Research in Biomedical Sciences	1
Choose one of the following in Immunology:		3
BMS 750	Infection and Immunity	
BMS 751	Immunopathology	
Choose one of the following in Molecular Biology:		3
BMS 705	Molecular Pathology	
BMS 756	Current Concepts in Cancer	
BMS 765	Molecular Pathophysiology	
Choose one of the following in Pathogenesis:		3
BMS 701	Human Pathophysiology I	
BMS 702	Human Pathophysiology II	
BMS 775	Mechanisms of Infectious Disease	
Choose one of the following in Statistics:		3
PSYCH 510G	Advanced Psychological Statistics	
KIN 702	Statistical Analysis in the Health Sciences	
PH 702	Introduction to Biostatistics	
PH 712	Probability and Statistical Inference	
BMS 799	Research in Biomedical Sciences	8
<b>Total Credits</b>		<b>26</b>

The remaining 6 credits required for the degree are electives, of which at least 3 must be taken for graduate credit from within the BMS Program. Program approval is required for BMS 590 credits to be applied towards the degree. BMS 599: Independent Study does not count toward completion of the degree. No more than 3 credits of BMS 999: Advanced Independent Study will be counted for the Thesis Track.

## Non-Thesis Track

Fourteen (14) core curricular credits (one from each of the four categories below and BMS seminar), as well as the 2 credit Capstone Course (BMS 890) must be completed. Substitutions to these courses require approval of the Program.

Code	Title	Credits
BMS 710	Seminar in Biomedical Sciences (1 credit per semester; 2 credits total)	2
Choose one of the following in Immunology:		3
BMS 750	Infection and Immunity	
BMS 751	Immunopathology	
Choose one of the following in Molecular Biology:		3
BMS 705	Molecular Pathology	
BMS 756	Current Concepts in Cancer	
BMS 765	Molecular Pathophysiology	
Choose one of the following Pharmacology/Toxicology:		3
BMS 610G	Pharmacology	
BMS 615G	Cellular and Molecular Toxicology	
Choose one of the following in Pathogenesis:		3
BMS 701	Human Pathophysiology I	
BMS 702	Human Pathophysiology II	
BMS 775	Mechanisms of Infectious Disease	
BMS 890	Capstone Project	2
<b>Total Credits</b>		<b>16</b>

Of the remaining 16 credits required for the degree, a minimum of 6 credits (excluding BMS 999) must be taken for graduate credit within the BMS Program. Up to ten credits may be taken as elective courses at the graduate level. These elective courses may be within the BMS Program or outside of the Program. BMS 999 will not be counted toward the Non-Thesis Track without approval from the Program.

## Additional Requirements

### Major Professor as Advisor

For thesis track, the student must have a major professor to advise and supervise the student's studies. Non-thesis students should work with the Graduate Program Coordinator as their advisor throughout the program.

### Thesis (Thesis Track)/Capstone (Non-Thesis Track)

Students enrolled in the Thesis Track must write an acceptable thesis based on original research and pass a final oral examination in defense of the thesis under the supervision of a major professor. Students in the Non-Thesis Track must complete the course requirements, including the BMS Capstone Course (BMS 890).

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Blood Banking/Immunoematology, Undergraduate Certificate

The Certificate in Blood Banking trains students to meet the critical need for medical laboratory scientists in the workforce that make sure donated blood is safe for use in blood transfusions and other procedures. Students successfully completing this certificate are eligible to sit for the American Society for Clinical Pathology Board of Certification (ASCP-BOC) Technologist in Blood Bank exam and be employable in a medical laboratory or blood center.

## Requirements

Successful completion of the undergraduate certificate in Blood Banking/Immunoematology allows the individual to sit for the American Society of Clinical Pathology Board of Certification (ASCP-BOC) Technologist/Scientist in Blood Bank national certification exam and be employable in a medical laboratory or blood center. This curriculum meets entry level practitioner competency as outlined by the American Society for Clinical Laboratory Science.

Most of the required courses are delivered in face-to-face format.

Code	Title	Credits
BMS 427	Clinical Immunology	3
BMS 428	Clinical Immunology Laboratory	1
BMS 529	Introduction to Immunoematology	3
BMS 530	Immunoematology and Blood Banking Laboratory	1
BMS 532	Advanced Clinical Immunoematology and Immunology <sup>1</sup>	3
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1
BMS 599	Independent Study	1
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> BMS 532 is a 4-week capstone course (120 clinical hours) of practical training experience working in a clinical blood bank laboratory.

## Admission

Applicants are admitted to the certificate program in one of two categories:

1. Current UWM undergraduate student with a baccalaureate degree from a regionally accredited college/university with a major in biological science or chemistry, or baccalaureate degree from a regionally accredited college/university with a combination of 30 semester hours (45 quarter hours) of biology, chemistry and/or medical science courses including genetics within the last 5 years and a grade point average of 3.00 or above (4.00 scale.)
2. Post-baccalaureate students with a baccalaureate degree from a regionally accredited college/university with a major in biological science or chemistry, or baccalaureate degree from a regionally accredited college/university with a combination of 30 semester hours (45 quarter hours) of biology, chemistry and/or medical science courses including genetics within the last 5 years and a grade point average of 3.00 or above (4.00 scale.)

## Death Investigation, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

### Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

### Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
ANTHRO 403	The Human Skeleton	3
ANTHRO 405	Forensic Anthropology	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3

BMS 610 or HCA 212	Pharmacology Drugs Used and Abused	3
<b>Total Credits</b>		<b>24</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/ CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/ CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 404	Human Biological Variation	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
CHEM 194	First-Year Seminar:	3
CHEM 524	Instrumental Analysis	3
CHEM 602	Biochemistry: Cellular Processes	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

## Forensic Science, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

### Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be



admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

## Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3
ANTHRO 403 or ANTHRO 404	The Human Skeleton Human Biological Variation	3
BMS 610 or HCA 212	Pharmacology Drugs Used and Abused	3
Select one of the following:		3-4
BIO SCI 539	Laboratory Techniques in Molecular Biology	
CHEM 602	Biochemistry: Cellular Processes	
BMS 560 & BMS 561	Molecular and Genetic Diagnostics and Molecular Diagnostics Laboratory	
<b>Total Credits</b>		<b>21-22</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/ CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/ CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/ CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 405	Forensic Anthropology	3
CHEM 194	First-Year Seminar.	3
CHEM 524	Instrumental Analysis	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1

## Forensic Toxicology, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

### Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

### Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
CHEM 524	Instrumental Analysis	3
BMS 610	Pharmacology	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3
ANTHRO 403	The Human Skeleton	3

or ANTHRO 404	Human Biological Variation	
<b>Total Credits</b>		<b>21</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/ CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/ CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/ CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 405	Forensic Anthropology	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
CHEM 194	First-Year Seminar: (with forensic subtitle)	3
CHEM 602	Biochemistry: Cellular Processes	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

## Interprofessional Leadership in Healthcare, Undergraduate Microcredential

The undergraduate microcredential in Interprofessional Leadership in Healthcare is an educational and career benefit to anyone planning for a career or currently working in the healthcare industry. The required courses are available in a fully online format or through the UW System Flexible Option Program and semester based UWM courses.

Interprofessional education and leadership skill development is encouraged by many organizations, including the Interprofessional Education Collaborative (IPEC), World Health Organization (WHO) and the National Center for Interprofessional Practice and Education (NCIPE).

Educational and career opportunities gained through completion of the microcredential include:

- Increased knowledge and understanding of other healthcare professions.
- Improved communication and teamwork skills.
- Enhanced problem-solving skills.
- Career advancement opportunities.

Through completion of the assessments and activities required in the Interprofessional Leadership in Healthcare microcredential you will demonstrate competency in:

- Skills for professionalism and ethical standards of practice.
- Application of the interprofessional practice domains of interprofessional communication, teamwork and professionalism, roles and responsibilities, and values and ethics.
- Critical evaluation of the fundamentals of diversity, equity, and inclusion as they can be enacted within the four interprofessional competencies.

The program is open to degree-seeking and University special students. It consists of nine credits (three courses) taught by UWM faculty and staff who are advanced members of health professions and engaged in interprofessional education and practice. The program collaborates between the School of Biomedical Sciences & Healthcare Administration and the School of Rehabilitation Sciences and Technology.

The required courses can be completed in any order and are available as electives for any student. These courses are required for the Biomedical Sciences Health Sciences degree completion. The microcredential is recognized on your final transcript and with an electronic badge, an electronic document indicating competencies and various learning achievements.

Your advisor will assist with declaring this microcredential and submission for your badge award.

## Requirements

Code	Title	Credits
<b>Required Courses</b>		
BMS 433	Teamwork in the Health Professions	3
or THERREC 303	Inclusive and Disability Programs in the Community	
Select one of the following:		3
BMS 434	Professional Development in the Health Sciences	
DMI 496	Professional Growth and Career Advancement in Diagnostic Imaging Professions	
BMS 549	Professional Development in Clinical Laboratory Sciences	
OCCTHPY 530	Contemporary Issues and Professional Preparation in OST	
BMS 435	Foundations of Interprofessional Education and Practice	3
<b>Total Credits</b>		<b>9</b>

The minimum GPA for microcredential courses is a C. If applicable, program criteria apply, including a B-course grade minimum for Flexible Option students.

## Molecular Diagnostics, Undergraduate Certificate

The certificate program in Molecular Diagnostics trains students in the newly emerging and rapidly evolving field of laboratory medicine. Students gain a solid foundation and the basic skills necessary for professional employment in Molecular Diagnostic programs in university and hospital laboratories, in new R&D test applications, or in the biotechnology industries serving the Molecular Diagnostics communities.

The certificate is designed to augment the basic education and skills of students currently pursuing a Bachelor of Science degree in Biomedical Sciences or Biological Sciences. With minimal additional courses, students will be able to complete a certificate in Molecular Diagnostics.

The certificate program will also be available to returning, non-degree students who wish to obtain additional credentials in Molecular Diagnostics for career development or enhancement.

## Requirements

Code	Title	Credits
<b>Required</b>		
CHEM 501	Introduction to Biochemistry	3
BIO SCI 325	Genetics	4
Select one of the following:		4
BMS 539 & BMS 540	Public Health Microbiology and Public Health Microbiology Lab	
BIO SCI 539	Laboratory Techniques in Molecular Biology	
Select one of the following:		3-4
BMS 560 & BMS 561	Molecular and Genetic Diagnostics and Molecular Diagnostics Laboratory	
BMS 705 & BMS 561	Molecular Pathology and Molecular Diagnostics Laboratory	
<b>Electives</b>		
Select one of the following:		3-5
BIO SCI 383	General Microbiology	
BIO SCI 315 & BIO SCI 316	Cell Biology and Laboratory in Genetics and Cell Biology	

BMS 534 & BMS 535	Medical Microbiology and Medical Microbiology Laboratory
BMS 599	Independent Study
<b>Total Credits</b>	<b>17-20</b>

Although flexibility is built into this certificate program, students will be expected to have basic knowledge of microbiology and genetics and at least one advanced laboratory course (500 level or above) to qualify for the Molecular Diagnostics Certificate.

## Health Care Administration

The expanding field of health care administration seeks professionals with specialized training in business and health care operations to oversee administrative functions, manage medical and health services, and to plan, direct, and coordinate the business activities in health care organizations and related industries. Expert faculty in our undergraduate and graduate programs provide competency-based education and training in the development of critical skills including business and finance, communication, leadership and management.

## Programs

- Health Care Administration, BS (p. 731)
- Health Care Administration, Minor (p. 734)
- Health Care Informatics, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration) (p. 734)
- Healthcare Administration, MHA (p. 735)
- Healthcare Compliance, Graduate Certificate (p. 736)
- Value-Based Healthcare, Graduate Certificate (p. 737)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Jennifer Fink	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	
Rene Gratz	Professor	PhD			✓
Mary K. Madsen	Professor	PhD			✓
Kathleen Olewinski	Clinical Associate Professor	MS, RHIA, NHA, FACHE	Cardinal Stritch University		
Gary Ross	Clinical Associate Professor	PhD	University of Kentucky		
Hanh Trinh	Associate Professor	PhD	Medical College of Virginia		
Barbara J. Zabawa	Clinical Assistant Professor	JD, MPH	University of Wisconsin-Madison		

## Health Care Administration, BS

Like all businesses, health care organizations require strong leadership to run smoothly. As an experienced health care administrator, your career could span the operation of a single department to executive leadership and management positions in which you're responsible for millions of dollars of facilities and equipment as well as hundreds of employees.

Our undergraduate Health Care Administration (HCA) program will help you master the basic business principles and tools that you will need for effective decision-making when you enter this field: finance, information systems, strategic planning, human resource management and marketing. You will also develop strong management and leadership competencies including business skills, problem-solving, communication

and relationship management, collaboration and teamwork, adaptability, cultural competency and systems thinking skills that will be essential to your success.

The UWM HCA program is certified by the Association of University Programs in Health Administration (AUPHA) and is the only AUPHA-certified health care administration program in the State of Wisconsin. Our HCA program has a proud history of national recognition by the American College of Healthcare Executives (ACHE), earning the prestigious Higher Education Network Award for 4 consecutive years in the undergraduate category as the program with the highest level of student engagement.

## Requirements

Code	Title	Credits
	University General Education Requirements	6
	Electives to include remaining University Requirements	16
	Major Requirements	58
	Extra-Departmental Requirements	40
<b>Total Credits</b>		<b>120</b>

## Course of Study

The Health Care Administration program offers a four-year curriculum leading to a Bachelor of Science (BS) degree in Health Care Administration. The curriculum includes all necessary requirements for a minor in business administration. Students begin by taking freshman- and sophomore-level foundation courses in the biological and health sciences, health information administration, as well as the liberal arts. This coursework provides a solid basis for the advanced study of healthcare administration that follows. Successful completion of a faculty-supervised, semester-long internship (minimum of 120 hours) at an approved healthcare agency or related industry is required in the senior year.

## Admission to the Major

The Health Care Administration program will consider applications to the major at the end of each semester, as long as the student's cumulative UWM GPA is 2.5 or above, the student has completed the admission prerequisite courses, and the student has met the grade requirements for required courses. Students are encouraged to apply to the major as soon as they meet these requirements and have achieved sophomore status.

Application forms for admission to the major in HCA can be accessed online or can be requested from the College of Health Professions and Sciences (CHPS) Office of Student Affairs. Completed application forms and copies of transcripts of previous college work can be submitted to the CHPS Office of Student Affairs. The following courses are prerequisites for admission to the major:

Code	Title	Credits
Select one of the following:		0-3
ENGLISH 102	College Writing and Research	
Completion of the UWM English competency requirement		
COMMUN 103	Public Speaking	3
ECON 103	Principles of Microeconomics	3
or ECON 104	Principles of Macroeconomics	
Select one of the following:		0-3
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
Achieve math placement level of 30		
HS 102	Healthcare Delivery in the United States	3
HCA 220	Leading Healthcare Professionals	3

Students are required to earn a grade of C or higher in all required courses.

No student applying to the program with a cumulative UWM GPA lower than 2.5 will be admitted. A student whose cumulative UWM GPA falls below 2.5 will be placed on probationary status and will not be able to graduate with the degree in Health Care Administration until their cumulative UWM GPA is 2.5 or higher. Students remaining on probation

for more than two consecutive semesters will be dismissed from the major.

## Requirements for Internship

The faculty-supervised internship (minimum of 120 hours) is an integral component of the Health Care Administration major. Students, under the direction of a preceptor, are given opportunities for management-related experience in local, national, and international healthcare organizations and related industries. Students must be admitted to the major and complete the internship application form by October 1 to be considered for the spring semester and March 1 for the fall semester. Summer internships will be considered for approval on a case-by-case basis, and the application deadline is March 1. Prior to internship, students must complete a background check and must meet physical and health screening requirements.

## Graduation Requirements

The following requirements must be met to graduate:

1. Completion of the required credits;
2. A cumulative UWM GPA of 2.5;
3. A grade of C or better in all required courses; and
4. Completion of all University General Education Requirements (p. 30).

## Degree Requirements

Code	Title	Credits
<b>University General Education Requirements</b>		
<i>Competency Requirements</i>		
Oral and Written Communication (OWC) Part A & B:		
HCA 249	Writing for Professional Development in Health Administration <sup>1</sup>	3
Quantitative Literacy (QL) Part A & B:		
KIN 270	Statistics in the Health Professions: Theory and Practice <sup>1</sup>	3
Foreign Language		
<i>Distribution Requirements</i> <sup>1</sup>		
Arts		
Humanities		
Natural Sciences		
Social Sciences		
Cultural Diversity		
<i>Electives</i>		16
<b>Major Requirements</b>		
HCA 220	Leading Healthcare Professionals	3
HCA 300	Professional Development Seminar for Health Administration Students	1
HCA 307	Epidemiology for the Health Sciences	3
HCA 333	Health Organizations Professional Practice Standards	2
HCA 340	Healthcare Process Measurement	3
HCA 361	Post-Acute Care and Management	3
HCA 400	Healthcare Marketing	3
HCA 421	Operations Management in Healthcare Organizations	3

HCA 422	Human Resource Management in Healthcare Organizations	3
HCA 450	Healthcare Quality Management	3
HCA 460	Healthcare Reimbursement Systems and Policies	3
HCA 502	Healthcare Delivery Systems: National and International Perspectives	3
HCA 521	Advanced Systems Thinking and Strategy for Healthcare Leaders	3
HCA 580	Health Care Administration Internship	4
HI 537	Health Information Technology and Management	3
HS 102	Healthcare Delivery in the United States	3
HS 105	Survey of the Health Professions <sup>1</sup>	3
HS 222	Language of Medicine	3
HS 224	Computational Tools for Healthcare Professionals	3
HS 311	Law and Ethics for Healthcare Professionals	3

**Extra-Departmental Requirements**

BIO SCI 201	Human Structure and Function <sup>1</sup>	3
BUS ADM 201	Introduction to Financial Accounting	4
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective <sup>1</sup>	3
BUS ADM 330	Organizations	3
BUS ADM 350	Principles of Finance	3
BUS ADM 360	Principles of Marketing	3
BUS ADM 370	Introduction to Supply Chain Management	3
COMMUN 103	Public Speaking <sup>1</sup>	3
ECON 103	Principles of Microeconomics <sup>1</sup>	3
ECON 104	Principles of Macroeconomics <sup>1</sup>	3
ECON 450	Health Economics	3
MATH 105	Introduction to College Algebra <sup>1</sup>	3
ENGLISH 102	College Writing and Research <sup>1</sup>	3

**Total Credits** **120**

<sup>1</sup> General Education Requirements (GERs): The courses required within the HCA curriculum satisfy the University's General Education Requirements for Cultural Diversity, Social Sciences, Quantitative Literacy, and Oral and Written Communication; students should use their elective credits to satisfy GER requirements for Natural Sciences, Humanities, Arts, and Foreign Language requirements.

## Curriculum for the Health Care Administration Major

Year 1		Credits
<b>Semester 1</b>		
HS 105	Survey of the Health Professions	3
HS 222	Language of Medicine	3
MATH 105 or MATH 108 or QLA GER		3
ENGLISH 102 or OWCA GER		3
Elective: Recommend GER - Humanities		3
<b>Credits</b>		<b>15</b>

Semester 2		
BIO SCI 201	Human Structure and Function	3
COMMUN 103	Public Speaking	3
HS 224	Computational Tools for Healthcare Professionals	3
HS 102	Healthcare Delivery in the United States	3
Elective: Recommend GER - Arts		3
<b>Credits</b>		<b>15</b>

Year 2		
<b>Semester 1</b>		
ECON 103 or ECON 104	Principles of Microeconomics or Principles of Macroeconomics	3
HCA 220	Leading Healthcare Professionals	3
HCA 249	Writing for Professional Development in Health Administration	3
KIN 270	Statistics in the Health Professions: Theory and Practice	3
Elective: Recommend GER - Foreign Language		3
<b>Credits</b>		<b>15</b>

Semester 2		
ECON 104	Principles of Macroeconomics	3
BMS/HCA/COMSDIS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
HCA 307	Epidemiology for the Health Sciences	3
Elective: Recommend GER - Natural Sciences		3
Elective: Recommend GER - Foreign Language		3
<b>Credits</b>		<b>15</b>

Year 3		
<b>Semester 1</b>		
BUS ADM 201	Introduction to Financial Accounting	4
BUS ADM 330	Organizations	3
HCA 300	Professional Development Seminar for Health Administration Students	1
HCA 361	Post-Acute Care and Management	3
HCA 450	Healthcare Quality Management	3
HI 537	Health Information Technology and Management	3
<b>Credits</b>		<b>17</b>

Semester 2		
BUS ADM 350	Principles of Finance	3
ECON 450	Health Economics	3
HS 311	Law and Ethics for Healthcare Professionals	3
HCA 333	Health Organizations Professional Practice Standards	2
HCA 340	Healthcare Process Measurement	3
Open Elective		1
<b>Credits</b>		<b>15</b>

Year 4		
<b>Semester 1</b>		
BUS ADM 360	Principles of Marketing	3
BUS ADM 370	Introduction to Supply Chain Management	3
HCA 421	Operations Management in Healthcare Organizations	3
HCA 422	Human Resource Management in Healthcare Organizations	3
HCA 521	Advanced Systems Thinking and Strategy for Healthcare Leaders	3
<b>Credits</b>		<b>15</b>

Semester 2		
HCA 400	Healthcare Marketing	3
HCA 460	Healthcare Reimbursement Systems and Policies	3
HCA 502	Healthcare Delivery Systems: National and International Perspectives	3
HCA 580	Health Care Administration Internship	4
<b>Credits</b>		<b>13</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> General Education Requirements (GERs): The courses required within the HCA curriculum satisfy the University's General Education Requirements for Cultural Diversity, Social Sciences, Quantitative Literacy, and Oral and Written Communication; students should use their elective credits to satisfy GER requirements for Natural Sciences, Humanities, Arts, and Foreign Language requirements.

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Health Care Administration, Minor Requirements

The minor in Health Care Administration consists of 17 credits and may be declared once a student has completed a minimum of 45 credits and achieved a minimum cumulative GPA of 2.5. To obtain the minor, a student must complete at UWM the 17 credits on which a minimum 2.5 cumulative GPA is also required. Declaration forms for the Health Care Administration Minor are available in the College of Health Professions and Sciences, Office of Student Affairs, NWQ Building B, 6th Floor. For more information or to schedule an advising appointment, please call (414) 229-2758.

Code	Title	Credits
HS 102	Healthcare Delivery in the United States	3
HCA 220	Leading Healthcare Professionals	3
HS 311	Law and Ethics for Healthcare Professionals	3
HCA 333	Health Organizations Professional Practice Standards	2

HCA 422	Human Resource Management in Healthcare Organizations	3
HI 537	Health Information Technology and Management	3
<b>Total Credits</b>		<b>17</b>

## Health Care Informatics, Undergraduate Certificate (School of Biomedical Sciences and Health Care Administration)

(Offered cooperatively by the University of Wisconsin-Milwaukee College of Health Professions and Sciences, Zilber College of Public Health, and School of Information Studies.)

UWM offers a **certificate** in Health Care Informatics, a **Master of Science (MS)** in Health Care Informatics, and a **Ph.D.** in Medical Informatics. The undergraduate certificate is available in a **semester-based** in-person or online format or in the self-paced competency-based **Flexible Option**. It is available to students in any undergraduate major or university special students. The Flexible Option program allows for admission in any month.

Hospitals, clinics, private practices, health insurers, and other healthcare organizations have an extensive and complicated health information management infrastructure. Now more than ever, the healthcare industry needs professionals skilled in managing IT and who are well-versed in the unique needs of the healthcare systems. This certificate is valuable to students in the health professions, information studies, and related areas of study, such as public health, who are seeking professional employment in the health care industry.

Learning in the Health Care Informatics certificate demonstrates your knowledge and skills with a recognized credential. Completing this certificate signals your increased value to employers and can lead to expanded job opportunities or a graduate program in the field.

Learning goals for the six course (18 credit) certificate:

- Overview of the terminology and practices of health care
- Introduction to information technology theory and application
- Analysis and design of information systems in a healthcare environment
- Design, creation, and management of healthcare database systems
- Legal aspects of information products and services

Please see the requirements tab for complete information about curriculum and to declare this certificate.

See more information about the UW Flexible Option (<https://flex.wisconsin.edu/degrees-programs/health-care-informatics/>).

## Requirements

### Certificate goals:

1. Introduction to information technology theory and application;
2. Analysis and design of information systems in a healthcare environment;

3. Design, creation, and management of healthcare database systems; and
4. Legal aspects of information products and services.

## Curriculum

To obtain the certificate, the student must complete, with a minimum grade point average of 2.5, 18 credits in approved certificate courses of which 12 must be earned in residence at UWM.

Code	Title	Credits
HS 222 or BMS 205	Language of Medicine Introduction to Diagnostic Medicine	3
HS 224 or INFOST 110	Computational Tools for Healthcare Professionals Introduction to Information Science and Technology	3
INFOST 315 or INFOST 370	Knowledge Organization for Information Science and Technology Data Analysis and Visualization for the Information Professional	3
HI 537	Health Information Technology and Management	3
HCA 541 or INFOST 340	Healthcare Information Systems Analysis and Design Introduction to Systems Analysis	3
INFOST 465 or HS 311	Legal Aspects of Information Products and Services <sup>1</sup> Law and Ethics for Healthcare Professionals	3
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> HS 311 allowed only in Flexible Option. All other students enroll in INFOST 465.

## Admission

Students can declare this certificate by contacting their advisor. Certificates are awarded upon completion of all requirements or at time of graduation for students seeking a bachelor's degree.

A 2.5 GPA requirement is effective for students who declare this certificate summer 2021 or beyond.

## Healthcare Administration, MHA

The Department of Health Care Administration offers the Master of Healthcare Administration (MHA) to provide evidence-based training in micro and macro theory and practice to advance the health of individuals and communities—local, national, and international. The program enables students to understand the complex interrelationships between health organizations, societal and cultural contexts, and biological systems, and emphasizes the well-being of the individuals and populations affected by these complex interrelationships. The UWM MHA program is accredited by the Commission on Accreditation of Healthcare Management Education (CAHME) and is the only CAHME-accredited MHA program in the State of Wisconsin.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) and submit the following materials:

- **Resume or CV**
- **Transcripts:** All applicants, including UWM students, must upload transcripts from all academic institutions where a bachelor's degree or above has been or will be earned.
- **Reason Statement:** An essential part of your application, the reason statement is used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing. In the statement:
  - Explain your reasons for pursuing graduate study.
  - Describe specific interests and your background in the field.
  - List any relevant skills or training you have acquired.
  - List relevant academic awards or honors you have received.
- **Two Letters of Recommendation:** Letters of recommendation should come from academic sources and/or supervisors. The letters should address the applicant's academic and professional strengths, and the applicant's potential for success in graduate study.

## Credits and Courses

### MHA Options

There are four options for the MHA:

#### Option 1: Face-to-Face Program

(39 credits required for graduation)

All courses are offered in face-to-face sections; 30 credits of required courses, a 2-credit internship, 1-credit MHA capstone course and 6 credits of electives are required.

#### Option 2: Online Program

(39 credits required for graduation)

All courses are offered online; 30 credits of required courses, a 2-credit internship, 1-credit MHA capstone course and 6 credits of electives are required.

#### Option 3: Executive Online Program

(33 credits required for graduation)

All courses are offered online; 30 credits of required courses, a 2-credit internship and 1-credit MHA capstone course required. Admission to the Executive Online program requires previous health-related administrative experience and/or an advanced professional degree. Examples of acceptable degrees include MBA, PharmD, PhD, MD, JD, DO, DPT, and APRN.

### Option 4: Executive Online Program with the Pharmacy Leadership Academy

(30 credits required for graduation)

All courses are offered online; 27 credits of required courses, a 2-credit internship and 1-credit MHA capstone course required. Admission to this program requires concurrent enrollment in the Pharmacy Leadership Academy (<https://www.ashpfoundation.org/leadership-development/pharmacy-leadership-academy/>) (PLA) program.

\*HCA 866 is not a

required course

Code	Title	Credits
<b>Required Courses</b>		
HCA 801	Design of Health and Human Service Systems	3
KIN 702	Statistical Analysis in the Health Sciences	3
or HCA 843	Quantitative Methods for Healthcare Administrators	
HCA 821	Operations Management in Healthcare Organizations	3
HCA 822	Human Resources Management for Healthcare Executives	3
HCA 823	Strategic Planning in Health Care Organizations	3
HCA 865	Financial Management for Health Care Organizations	3
HCA 866	Leading Change & Innovation in a System	3
HCA 867	Global Population Health Management	3
HCA 813	Health Regulatory Policy and Politics	3
HCA 868	Health Law and Ethics	3
<b>Required Internship</b>		
HCA 870	Internship in Health Care Administration	2
<b>Required Capstone</b>		
HCA 871	MHA Capstone	1
<b>Focus Area Electives:</b>		
BUSMGMT 705	Corporate Finance	3
BUS ADM 775	Financial Strategy	3
or NURS 620	Global Food Security and Systems	
NURS 708	Global Maternal and Child Health: From Evidence to Action	3
or HI 723	Health Care Systems Applications - Administrative and Clinical	
HI 743	Predictive Analytics in Healthcare	3
<b>Code</b>	<b>Title</b>	<b>Credits</b>
<b>Approved General Electives</b>		
HCA 835	Patient-Provider Communication: Strategies & Practices	3

## Additional Requirements

### Major Professor as Advisor

A student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. Initially,

the director of the MHA Program advises and supervises newly admitted students. Students are then assigned faculty advisors according to faculty advising loads.

### Time Limit

All degree requirements must be completed within seven years of the first enrollment semester as a degree student.

## Healthcare Compliance, Graduate Certificate

Health care compliance is critical to all organization types and persons who work in the health care industry. Whether you are a health care practitioner, administrator, insurer or in a business that contracts with health care organizations, it is vital to understand the need for and function of a robust corporate compliance program.

Learning outcomes in this certificate program address the fundamentals of health care compliance, such as compliance administration, policies and procedures, oversight and committees, enforcement and reporting requirements, screening of employees and vendors, billing and coding basics, auditing and monitoring, education and training, investigations, fraud and abuse laws, and HIPAA. Students who excel in the five-course certificate program at UWM are prepared to sit for the Certification in Healthcare Compliance (CHC) exam offered by the Compliance Certification Board (CCB). A CHC designation is widely valued in the healthcare compliance community.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

CCB accreditation requires students to have a baccalaureate degree prior to taking the CHC or equivalent exam. Students who complete the certificate in conjunction with the MHA degree program must meet MHA admission requirements. Post baccalaureate applicants to the Healthcare Compliance Certificate program must have at least a bachelor's degree from an accredited institution and a stated interest in working in healthcare compliance. Minimum 2.75 cumulative GPA in bachelor's degree program.

Applicants must submit a Reason Statement to be considered for admission. The Reason Statement is used to determine the appropriateness of your educational/professional goals and serves as an example of your ability to express yourself in writing.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the



Panthera application before completing 6 credits in the certificate sequence.

- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The UWM Compliance Certificate Program courses are offered online and on campus. Courses that qualify for the 15-credit program include:

Code	Title	Credits
HCA 801	Design of Health and Human Service Systems	3
HCA 821	Operations Management in Healthcare Organizations	3
HCA 868	Health Law and Ethics	3
HCA 869	Health Care Compliance	3
HCA 813	Health Regulatory Policy and Politics	3
<b>Total Credits</b>		<b>15</b>

There is no capstone course or internship requirement for the certificate program, but students are required to interview a healthcare compliance officer as part of their Healthcare Compliance course and write a reflection on the interview. Degree seeking (MHA) students are encouraged to apply for a summer internship in a healthcare compliance role. Available internships are posted through the Health Care Compliance Association website (<https://www.hcca-info.org/CareerCenter/Internships.aspx>).

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Value-Based Healthcare, Graduate Certificate

Offered in collaboration with Advocate Health, one of the nation's largest and most successful managed care operations, this 16-credit certificate in Value-Based HealthCare prepares students for jobs in population management roles within healthcare organizations. Designed for busy health care professionals and leaders in health systems, public health, and community-based organizations, students will study core areas related to the design, function, management, regulation and evaluation of health insurance programs. Students will be able to distinguish between both private and public sector programs and the impact on delivery system transformation of CMMI payment initiatives. They will learn from practicing experts and applications to functioning programs. Students will evaluate the impact of payment models on population health programs and stakeholders. They will also evaluate the impact those models have on health care expenditures, utilization, beneficiary, and provider experiences with care and health outcomes.

For additional information, please contact Jennifer Fink, PhD at [jtfnk@uwm.edu](mailto:jtfnk@uwm.edu) or John Brill MD, MPH at [john.brill@aah.org](mailto:john.brill@aah.org).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The (VBC) certificate requires students to have a baccalaureate degree prior to taking the certificate. Students who complete the certificate in conjunction with the MHA degree program must meet MHA admission requirements. Post baccalaureate applicants to the (VBC) certificate program must have at least a bachelor's degree from an accredited institution and a stated interest in working in Value-Based Care Health Care. A minimum 2.75 cumulative GPA in bachelor's degree program is required.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).

- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
Semester 1		
HCA 843	Quantitative Methods for Healthcare Administrators	3
HCA 867	Global Population Health Management	3
HI 700	Introduction to Health Care Informatics	3
Semester 2		
HCA 800	Value Based Care Models	3
HCA 866	Leading Change & Innovation in a System	3
HCA 871	MHA Capstone	1
<b>Total Credits</b>		<b>16</b>

## Additional Requirements

### Transfer Credit

Three transfer credits are allowed for the certificate, on a case-by-case basis.

### Time Limit

Degree seeking students must complete all requirements within seven years (Graduate School completion requirement). Post-baccalaureate students must complete certificate requirements within three years.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Health Sciences, PhD

The PhD in Health Sciences curriculum includes a set of core courses providing a comprehensive structure for doctoral education including:

- Philosophical foundations.
- Concepts and practices that contribute to students, development as teaching scholars.
- Research methods.
- A series of seminars that build students, critical thinking skills, familiarity with a range of health sciences research topics, and experience in scholarly dialogue and presentation.

## Concentrations and Cross-Disciplinary Courses

In addition to the core courses, the program includes concentration and cross-disciplinary courses in areas such as disability and rehabilitation, diagnostic and biomedical sciences, human movement sciences, population health, and health administration/policy. Independent research and the dissertation will be structured according to the choice of specialization.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

To be considered for admission to the program applicants must satisfy all UWM Graduate School admission requirements in addition to the following College of Health Professions and Sciences requirements:

1. Submission of scores on the General Test portion of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>); test taken within last five years.
2. One of the following:
  - Master's degree or equivalent in an area that provides foundational academic preparation in proposed Health Sciences PhD Area of Concentration.
  - Bachelor's degree with exceptional promise, as indicated by research experience/evidence of writing or an undergraduate project, recommendations, GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores, and undergraduate GPA.
3. A sample of the applicant's written work that demonstrates their ability to conduct research and/or the ability to critically analyze the scholarly work of others.
4. A letter outlining the applicant's academic and professional background, declaration of Area of Concentration and Major Professor as well as specific research interests and goals for the PhD program. This statement should be submitted to the Graduate School and must be complete and thorough as it provides information that is central to the admission decision. This letter will serve in lieu of the Graduate School's "Reasons for Graduate Study" statement.
5. Three letters of recommendation from individuals familiar with the applicant's intellectual achievement and potential. At least two

of these letters must be from faculty or senior administrators at academic institutions.

For applicants from countries other than the U.S.A. whose first language is not English, a score of at least 250 on the computer-based (or 600 on the paper-based) Test of English as a Foreign Language (TOEFL) is required. A score of 6.5 on the International English Language Testing Systems (IELTS) examination will be accepted in lieu of the TOEFL.

The PhD Steering Committee will make an admission recommendation and forward it to the appropriate College of Health Professions and Sciences departmental Graduate Faculty or Executive Committee and identified Major Professor. The final admission decision is contingent upon approval by the departmental Graduate Faculty Committee or Executive Committee, the applicant’s Major Professor, and the Graduate School.

Prior to admission an eligible College of Health Professions and Sciences Graduate Faculty member must agree to serve as the applicant’s major professor.

### Reapplication

A student who has received a master’s degree in Biomedical Sciences, Communication Sciences and Disorders, Health Care Administration, or Occupational Therapy from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the PhD degree.

### Credits and Courses

The Health Sciences PhD program requires you to complete a minimum of 72 credits beyond the Bachelor’s degree, including no more than 36 credits from a related master’s and/or other post-baccalaureate coursework. Depending on the area of concentration additional credits may be required. Consult with your major professor for the individual program of study requirements. You must complete a minimum of 36 credits, or 50% of the total credits required for the degree, in doctoral status at UWM, including pre-candidacy and candidacy work.

Of the credits taken in residence, you must complete at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, inclusive of summer sessions.

The precise number of credits and actual course requirements will be determined after a review of your previous coursework by your major professor and the Program Director. You will then plan an individual program of study in consultation with your major professor and doctoral advisory committee that will include a set of core courses, an area of concentration, cross-disciplinary courses, electives, and the dissertation.

Code	Title	Credits
<b>Core <sup>1</sup></b>		
<i>Research/Grantsmanship</i>		3
Select a minimum of 3 credits from the following:		
SOC WRK 991	Doctoral Proseminar: MCW 20253A Methods in Grant Preparation	
PH 808	Writing a Federal Grant in the Public Health Sciences	
BMS 718	Experimental Design and Research in Biomedical Sciences	
PSYCH 610	Experimental Design	

PH 827	Research Design in Community and Behavioral Health Promotion	
ED PSY 824	Advanced Experimental Design and Analysis	
<i>Teaching</i>		3
Select a minimum of 3 credits from the following:		
GRAD 801	Preparing Future Faculty & Professionals:	
CURRINS 774	College Teaching	
KIN 909	Guided Teaching Experience in Health Sciences	
CETL workshops in combination with guided teaching. CETL workshops may count as 1 credit under independent study or guided teaching.		
<i>Statistics</i>		6
Select a minimum of 6 credits from the following:		
KIN 702	Statistical Analysis in the Health Sciences	
ED PSY 820	Multiple Regression	
SOC WRK 962	Applied Multiple Regression Analysis	
HI 743	Predictive Analytics in Healthcare	
NURS 882	Qualitative Methods in Health Research	
NURS 885	Advanced Quantitative Methods in Health Research	
NURS 886	Advanced Qualitative Methods in Health Research	
ED PSY 825	Multivariate Methods	
SOC WRK 963	Measurement Methods and Related Multivariate Statistics	
<i>Seminar</i>		3
Select a minimum of 3 credits from the following:		
KIN 910	Advanced Seminar in Health Sciences (counts as duplicate of BMS 910)	
BMS 910	Advanced Seminar in Health Sciences (counts as duplicate of KIN 910)	
GRAD 801	Preparing Future Faculty & Professionals:	
SOC WRK 991	Doctoral Proseminar.	
ATRAIN 703	Foundations of Interprofessional Practice	
BIO SCI 925	Graduate Seminar in Biological Sciences	
BIO SCI 933	Seminar in Neuroscience	
<b>Area of Concentration</b>		<b>9</b>
(Minimum of 9 credits): Courses related to the area of concentration will require you to draw upon the strengths and expertise of the faculty and curriculum in an interdisciplinary and collaborative manner.		
<b>Cross Disciplinary Requirement</b>		<b>6</b>
(Minimum of 6 credits): Cross-disciplinary courses are courses in areas outside of your area of concentration but related to your cross-disciplinary focus.		
<b>Electives</b>		<b>10</b>
(10 credits): Elective courses are courses relevant to your Program of Study. Foreign language coursework is optional, depending upon the recommendation of the major professor.		

**Dissertation**

(Minimum of 12 credits): The last component of the degree requirements, independent research and dissertation, will be structured by your area of concentration. Your dissertation is to consist of focused, independent research that contributes to the existing body of scientific knowledge. Per the UWM Graduate School policy, exactly 3 dissertation credits may be taken in a given semester. Thus, a minimum of 4 semesters of dissertation work is recommended.

**Total Credits****52**

<sup>1</sup> Note: Students would need prior approval from their Major Professor and Program Director for any courses not listed. For some core courses, the course number will change depending upon the department through which the course is offered during a particular semester.

## Additional Requirements

### Residence

The student must complete at least half of the graduate credits required for the PhD in residence at UWM in doctoral status. In addition, the student must complete at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. In exceptional cases, modifications of the residence requirement may be requested, subject to the approval of the College of Health Professions and Sciences PhD Steering Committee and the Graduate School.

### Foreign Language

Foreign language coursework is optional, depending upon the recommendation of the student's Major Professor.

### Doctoral Committee

In consultation with the Major Professor, each student is responsible for selecting a Doctoral Committee before completing 12 credits in the doctoral program. The doctoral committee shall consist of the student's major professor and four other graduate faculty: three of these must be at UWM, including at least two from CHPS. The other member may be from another institution, subject to the approval of the student's program executive committee. Upon formation of the Doctoral Committee, the student must file a "Doctoral Committee" form with their major professor which is to be subsequently filed with the PhD Steering Committee.

### Doctoral Preliminary Examinations

The doctoral preliminary examinations must be completed within three years of initial enrollment in the program. Students may receive up to two additional semesters to complete the preliminary examinations with approval of the PhD Steering Committee. The examinations consist of a written examination designed to demonstrate the breadth of a student's knowledge and the ability to conduct advanced research, and an oral exam covering issues raised during the written exam and/or focusing on the proposed dissertation research. The oral exam must follow the written exam within 10 days. Students take the preliminary examinations after completing all doctoral coursework or with no more than three credits of doctoral coursework remaining. Students cannot take the examinations if they have any incomplete or unreported grades or a GPA lower than 3.0. Students who fail the preliminary examinations may not proceed to the dissertation. The examinations may be retaken only once.

## 12 Dissertation Proposal

Upon successful completion of the preliminary examinations, the student submits a written dissertation proposal and delivers an oral presentation of the proposed research to the Dissertation Committee. The proposal takes the form of a scholarly document outlining the problem, its background and significance, summarizing relevant literature, and outlining the proposed research methods. It should include a tentative timetable and outline any required resources (space, equipment, etc.). Members of the student's Dissertation Committee must approve the dissertation proposal. Acceptance of the dissertation proposal establishes an agreement between the student and the Dissertation Committee as to the nature and scope of the research to be conducted, and the procedure for completing the dissertation. Upon Dissertation Committee approval, research proposals that use animal or human subjects must receive approval from the Animal Care and Use Committee or the Institutional Review Board.

### Dissertator Status

Specific requirements which must be completed before a doctoral student qualifies for dissertator status are described on the Graduate School Doctoral Requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>) page.

### Dissertation

The dissertation is a major piece of original research representing a substantial contribution to the existing body of knowledge. The original research findings embodied in the dissertation should be acceptable for publication in a refereed journal. The student's Major Professor and Dissertation Committee provide guidance in completing the dissertation.

### Dissertation Defense

Once the dissertation document meets with Dissertation Committee approval, an oral defense takes place. At the time of the defense, the dissertation must be of publication-quality (as judged by the Dissertation Committee). The dissertation defense will be held in an open forum after which the Dissertation Committee will meet in closed session to make a decision on degree conferral. The time and place of the public presentation must be announced with adequate time (i.e., at least one week prior to the defense) so that faculty and students may attend.

### Time Limit

The student must complete all requirements for the degree within seven years of the date of initial enrollment in the program. Upon successfully passing the preliminary examinations, the student must complete all requirements for the degree within four years.

## Nursing (School of)

The School of Nursing offers a Bachelor of Science degree (BS) in nursing, a Master of Nursing (MN) degree, and a Doctor of Nursing Practice (DNP) degree. These nursing programs are fully approved through the State of Wisconsin Board of Nursing and accredited by the Commission on Collegiate Nursing Education. The School also offers a Doctor of Philosophy degree (PhD) in nursing and a non-nursing master's degree in Sustainable Peacebuilding.

### Vision

As an innovative, academic community, the University of Wisconsin-Milwaukee School of Nursing faculty, staff, students and alumni are

renowned practitioners, scientists and leaders in creating bold and transformative solutions for advancing local, national and global health.

## Mission

The University of Wisconsin-Milwaukee School of Nursing is a premier, urban, academic, collegial community that acts collaboratively with partners to:

- Prepare a diverse population of students to become science based, compassionate leaders through innovative, quality, educational programs for all settings and levels of practice.
- Conduct research and scholarship that advance science in nursing and health.
- Address health through evidence based practice and interprofessional collaboration.
- Develop leaders who transform health care delivery and health policy.

## Core Values

As a diverse Community of Scholars that values academic discourse and debate in a climate of civility, we live our core values and create opportunities to understand the perspectives of all others. We, the University of Wisconsin-Milwaukee School of Nursing community, demonstrate these core values in our learning, teaching, research, practice and service.

- Collaboration
- Creativity
- Integrity
- Human Dignity
- Diversity
- Accountability
- Social Justice
- Excellence

## Programs

### Undergraduate

- Global Health, Undergraduate Certificate (School of Nursing) (p. 748)
- Nursing, BS (p. 768)
- Nursing, RN to BS Program (p. 776)
- Peace and Conflict Studies, Undergraduate Certificate (p. 778)

### Master's

- Nursing, MN (p. 773)
- Sustainable Peacebuilding, MSP (p. 781)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Alexa Anderson	Assistant Professor	PhD	University of Vermont	✓	
JoAnn Appleyard	Academic Staff Emerita	PhD, RN			✓
Mary Jo Baisch	Associate Professor Emerita	PhD, RN	University of Wisconsin-Milwaukee		✓
Jean Bell-Calvin	Clinical Assistant Professor Emerita	MS, RN, PHCNS-BC			✓
Janet Bitzan	Clinical Professor Emerita	PhD, RN			✓

## Doctoral

- Nursing Practice, DNP (p. 752)
- Nursing Practice, DNP/Business Administration, MBA (p. 754)
- Nursing Practice, DNP. Adult-Gerontology Acute Care Nurse Practitioner (p. 755)
- Nursing Practice, DNP. Clinical Nurse Specialist: Adult-Gerontology (p. 757)
- Nursing Practice, DNP. Clinical Nurse Specialist: Pediatrics (p. 759)
- Nursing Practice, DNP. Family Nurse Practitioner (p. 762)
- Nursing Practice, DNP. Nursing System Leadership: Nurse Executive (p. 764)
- Nursing Practice, DNP. Psychiatric Mental Health Nurse Practitioner (p. 766)
- Nursing, PhD (p. 775)

## Certificates

- Adult-Gerontology Acute Care Nurse Practitioner, Graduate Certificate (p. 745)
- Clinical Nurse Specialist (CNS), Graduate Certificate (p. 746)
- Family Nurse Practitioner, Graduate Certificate (p. 747)
- Global Health, Undergraduate Certificate (School of Nursing) (p. 748)
- Health Professional Education, Graduate Certificate (School of Nursing) (p. 750)
- Interprofessional Public and Population Health, Graduate Certificate (School of Nursing) (p. 751)
- Peace and Conflict Studies, Undergraduate Certificate (p. 778)
- Psychiatric Mental Health Nurse Practitioner (PMHNP), Graduate Certificate (p. 780)
- Trauma Informed Care, Graduate Certificate (School of Nursing) (p. 783)

## Requirements for Employment, Licensing, or Professional Organizations

Students should be aware that some professions, occupations, and employers are subject to licensing and/or bonding requirements. When a course of study includes clinical or field training, practice teaching, internships, or the like, students will be subject to a check of criminal conviction records, prior to acceptance of a student by the placement site. Drug testing is also a requirement prior to starting clinical, as is verification of health and immunization status. Students are responsible for obtaining the information necessary for them to become knowledgeable about these requirements and plan their studies accordingly. Please contact the appropriate department or program office for further information.

Rosina Bloomingdale	Clinical Assistant Professor	DNP, MSN, AGCNS-BC, GCNS, APNP			
Lisa Brennan	Clinical Assistant Professor	DNP, MBA, RN, FNP-BC			
Kristie Brooke	Clinical Assistant Professor	MSN, RN, APRN-BC, FNP			
Melissa Brown	Traditional BS Program Director & Clinical Assistant Professor	PhD, RN, CNE			✓
James Bumby	Clinical Assistant Professor Emeritus	PhD, RN			✓
Freddy Cao	Clinical Associate Professor	MD, PhD	University of Tokyo		✓
Amy Coenen	Professor Emerita	PhD, RN, FAAN	University of Wisconsin-Milwaukee		✓
Kathleen V. Cowles	Professor Emerita	PhD, RN	University of Illinois-Chicago		✓
Julie Darmody	Professor Emerita	PhD, RN, ACNS-BS	University of Wisconsin-Madison		✓
Jacqueline Davit	Senior Advisor Emerita	MSN, RN			✓
Susan L. Dean-Baar	Professor Emerita	PhD, RN, FAAN	Loyola University		✓
Elizabeth C. Devine	Professor Emerita	PhD, RN, FAAN	University of Illinois-Chicago		✓
Jennifer Doering	Associate Dean for Academic Affairs & Associate Professor	PhD, RN	University of Arizona		✓
Anne Dressel	Assistant Professor	PhD, CEPH, MLIS, MA	University of Wisconsin-Milwaukee		✓
Lisa Drew	Clinical Assistant Professor	DNP, MBA, PMHNP- BC, FNP-BC, APNP			
Amy Driscoll	Clinical Assistant Professor	DNP, RN, GCNS-BC			
Timothy Ehlinger	Associate Professor Emeritus	PhD	Michigan State University		✓
Julie Ellis	Associate Professor	PhD, RN, GCNS-BC	University of Wisconsin-Milwaukee		✓
Jeanne Erickson	Associate Professor Emerita	PhD, RN	University of Utah		✓
Susan A. Fontana	Associate Professor Emerita	PhD, APRN, FNP-BC	University of Illinois-Chicago		✓
Kathryn Gaspard	Clinical Associate Professor Emerita	PhD			✓
Lauren K. Glass	Professor Emerita	PhD, RN, FAAN	University of Illinois		✓
Kaboni Gondwe	Clinical Assistant Professor	PhD, RN	Duke University		
Sandeep Gopalakrishan	Assistant Professor	PhD, DAPWCA	University of Wisconsin-Milwaukee		✓
Barbara Haase	Assistant Professor	PhD, APRN, CPNP-PC, IBCLC			✓
Deanna Harcarik	Clinical Assistant Professor	MSN, CNS, RN			
Jessica Hertig	Clinical Assistant Professor	MSN, RN, ACM, CNE			
Jeanne Hewitt	Associate Professor Emerita	PhD, RN			✓
Eugenie Hildebrandt	Associate Professor Emerita	PhD, RN, ANP	University of Witwatersrand Medical		✓

Jeana Holt	Assistant Professor	PhD, DNP, RN, FNP-BC, APNP	University of Wisconsin-Milwaukee	✓	
Seok Hyun (Joshua) Gwon	Assistant Professor	PhD, RN	University of Virginia, Charlottesville	✓	
Kay Jansen	Clinical Professor Emerita	DNP, RN			✓
Teresa Johnson	Professor	PhD, RN	University of Illinois-Chicago	✓	
Peninnah Kako	Associate Professor	PhD, RN, FNP- BC, APNP	University of Wisconsin-Milwaukee	✓	
Jennifer Kibicho	Associate Professor	PhD, CPA(K)	Wayne State University	✓	
Carol Klingbeil	DNP Program Director & Clinical Associate Professor	DNP, RN, CPNP-PC	University of Wisconsin-Milwaukee	✓	
Christine Kovach	UWM Distinguished Professor Emerita	PhD, RN, FAAN	University of Rochester		✓
Alice M. Kuramoto	Professor Emerita	PhD, RN, FAAN	University of Michigan		✓
Norma Lang	Professor Emerita, WI Regent Distinguished Professor, Aurora Distinguished Professor of Healthcare Quality & Informatics	PhD, RN, FAAN, FRCN	Marquette University		✓
Jane S. Leske	Professor Emerita	PhD, ACNS- BC, FAAN	University of Wisconsin-Milwaukee		✓
Kim Litwack	Dean & Professor	PhD, RN, APNP, FAAN	Kent State University	✓	
Paula Lucey	Clinical Assistant Professor	PhD		✓	
Sally Lundeen	Professor Emerita	PhD, RN, FAAN	University of Illinois		✓
Rebecca Mcallister	Clinical Assistant Professor	DNP, FNP-BC, APNP			
Natalie McAndrew	Assistant Professor	PhD, RN, ACNS-BC, CCRN		✓	
Andrew McGuire	Teaching Faculty	PhD			
Melissa Melcher	Clinical Assistant Professor	DNP, MN, CNL- BC, FNP-BC			
Lisa Mihlbauer	Clinical Associate Professor Emerita	MS, RN, IBCLC, CNE			✓
Sandra Millon- Underwood	Professor Emerita	PhD, RN, FAAN	Northwestern University		✓
Melissa Milne	Clinical Assistant Professor	DNP, RN, APNP, FNP- BC, CARN-AP			
Sarah Morgan	Clinical Associate Professor Emerita	PhD, RN, CNE, CHSE, CNL	University of Wisconsin-Milwaukee		✓
Karen Morin	Professor Emerita	DSN, RN, ANEF, FAAN	University of Alabama at Birmingham		✓
Ellen K. Murphy	Professor Emerita	JD, RN, FAAN	University of Wisconsin-Madison		✓
Rochelle Nelson	Clinical Assistant Professor	MS, CNS			
Hyunkyung Oh	Assistant Professor	PhD, RN	University of Iowa	✓	
Sandra Plach	Professor Emerita	PhD, RN	University of Wisconsin-Milwaukee		✓
Michele Polfuss	Associate Professor	PhD, RN, CPNP-AC/PC	Marquette University	✓	
Herb Raasch	Clinical Assistant Professor	DNP, APNP, FNP-BC, PMHNP			

Sheila Reynolds	Clinical Assistant Professor	CSNS, BC		
Karyn Roberts	Clinical Assistant Professor	PhD, RN, CHSe		✓
Beth L. Rodgers	Professor Emerita	PhD, RN, FAAN	University of Virginia	✓
Marijo Rommelfaenger	Clinical Assistant Professor	PhD, RN		
Jessica Rotier	NLRC Director & Clinical Assistant Professor	MSN/Ed, RN, CHSE, CNE		
Kimberly Ryan	Clinical Assistant Professor	DNP, FNP-BC, RN	Concordia University	✓
Marie Sandy	Associate Professor			
Kathleen Sawin	Professor Emerita	PhD, CPNP- PC, FAAN		✓
Diane Schadowald	Clinical Professor	DNP, MSN, RN, FNP-BC, WHNP-BC, CNE	University of Minnesota	✓
Rachel Schiffman	Professor Emerita	PhD, RN, FAAN	University of Connecticut	✓
Doris Schoneman	Clinical Associate Professor Emerita			✓
Florence E. Selder	Professor Emerita	PhD, RN, FAAN	University of Illinois	✓
Mandy Sheriff	Clinical Assistant Professor	MSN, RN, CNE		
Nicole Simonson	RN-to-BSN Program Director & Clinical Associate Professor	DNP, RN		
Diane Smith	Clinical Professor Emerita			✓
Julie Snethen	Professor	PhD, RN, FAAN	University of Wisconsin-Milwaukee	✓
Patricia E. Stevens	Professor Emerita	PhD, RN, FAAN	University of California-San Francisco	✓
Vicki Swaney	Clinical Assistant Professor	DNP, MSN Ed, RN		
Kristen Swanson	Clinical Assistant Professor	MSN, APNP		
Murad Taani	Assistant Professor	PhD, MPH, RN	University of Wisconsin-Milwaukee	✓
AkkeNeel Talsma	Associate Professor	PhD, RN, FAAN	University of Michigan, Ann Arbor	✓
Vipavee Thongpriwan	Clinical Associate Professor	PhD, RN, CNE	University of Illinois-Chicago	✓
Ruth Treisman	Clinical Assistant Professor	MSN, RN, APNP-BC		
Jeylan Turkoglu	Clinical Assistant Professor			
Angela Waara	Clinical Assistant Professor	DNP, APNP, RN, FNP-BC		
Lance Weinhardt	Associate Dean for Research & Professor	PhD		
Kathryn Weis	Clinical Assistant Professor			
Linda Wesp	Assistant Professor	PhD, MSN, RN, FNP-C, APNP, AAHIVS		✓
Mary E. Wierenga	Professor Emerita	PhD, RN	Michigan State University	✓
Joan A. Wilk	Associate Professor Emerita	PhD, RN	University of Texas at Austin	✓
Lynne Woehrl	MSP Program Director & Associate Professor	PhD		✓



Carolyn Ziebert	Clinical Assistant Professor	DNP, RN, PCNS-BC
Joanne Lipo Zovic	Faculty Associate	JD

## Contact Information

**Student Affairs Office**  
Cunningham Hall, 129

[www.uwm.edu/nursing](http://www.uwm.edu/nursing) (<http://www.uwm.edu/nursing/>)

# Adult-Gerontology Acute Care Nurse Practitioner, Graduate Certificate

This 18-credit post graduate Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP) certificate prepares students for certification and licensure as Adult-Gerontology Acute Care Nurse Practitioners (AG ACNP). Upon completing the certificate requirements, students will be eligible to sit for the AG ACNP national certification exam offered by the American Nurses Credentialing Center (ANCC) or by the American Association of Critical Care Nurses (AACN). Once nationally certified the AG ACNP is eligible to apply for licensure in all fifty states.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

The admission requirements of the AG ACNP Post Graduate Certificate are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

- A master's or doctoral degree in Nursing from an accredited program providing preparation as a nurse practitioner, clinical nurse specialist, certified nurse midwife, or certified registered nurse anesthetist.
- Certification in their current advanced practice registered nurse specialty as applicable.
- Completion with a grade of B or better of a graduate-level course in advanced physiology/pathophysiology, advanced pharmacology, and advanced health assessment. Evidence of current prescriptive

authority in the state of Wisconsin will be accepted in place of advanced pharmacology.

- Current registration as a Registered Nurse in the state of Wisconsin.
- Three (3) letters of recommendation, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
- Resume or Curriculum Vitae (CV).
- Personal statement that includes rationale for certificate study and career goals.
- Personal interview with a faculty member may be requested.
- One year of clinical experience relevant to the chosen specialty, such as adult medical surgical units, ICU, PACU or ED.

## Credits and Courses

The Adult-Gerontology Acute Care Nurse Practitioner Post Graduate Certificate includes three theory courses (3 credits each) and three practicum courses (3 credits each) for a total of 18 credits. The six required courses are:

Code	Title	Credits
<b>Theory</b>		
NURS 702	Advanced Practice Nursing Adult-Gerontology Chronic Illness	3
NURS 703	Advanced Practice Nursing Adult-Gerontology Acute Illness	3
NURS 704	Advanced Practice Nursing Adult-Gerontology Critical Illness	3
<b>Practicum</b>		
NURS 822	Adult-Gerontology Acute Care Nurse Practitioner Practicum I	3
NURS 823	Adult-Gerontology Acute Care Nurse Practitioner Practicum II	3
NURS 824	Adult-Gerontology Acute Care Nurse Practitioner Practicum III	3
<b>Total Credits</b>		<b>18</b>

## Additional Requirements

### Transfer Credit

If approved by the AG ACNP faculty, one 3-credit course from an institution other than UWM may be transferred in to meet requirements of the certificate program.

### Completion Requirements

Certificate program progression requirements will be consistent with the College of Nursing requirements for progression in graduate level programs. Students must complete all courses with at least a B- or better and a cumulative GPA of a 3.00 or greater in order to progress in program.

### Time Limit

It is expected that students will complete the certificate within one year from time of enrollment.

### Certificate Conferral

The certificate will be awarded upon successful completion of the requirements (i.e. once all grades for the certificate courses are officially

recorded with a cumulative GPA of 3.0 or more). Successful completion of the certificate program will be noted on the student's official transcript.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

# Clinical Nurse Specialist (CNS), Graduate Certificate

This 18-credit Clinical Nurse Specialist Post Graduate Certificate is designed to provide advanced practice nurses with preparation as a Clinical Nurse Specialist (CNS). The student will choose one of the following populations: adult/gerontology or pediatric. Upon completing the certificate requirements, students will be eligible to sit for the population specific national certification exams offered by the American Nurses Credentialing Center (ANCC) or by the American Association of Critical Care Nurses (AACN). Once nationally certified, the CNS is eligible to apply for licensure in all fifty states.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The admission requirements of the Post-Graduate CNS Certificate are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the School of Nursing:

1. A master's or doctoral degree in Nursing from an accredited program providing preparation as a nurse practitioner, clinical nurse specialist, certified nurse midwife, or certified registered nurse anesthetist.
2. Certification in their current advanced practice registered nurse specialty as applicable.
3. Completion with a grade of B or better of a graduate-level course in advanced physiology/pathophysiology, advanced pharmacology, and advanced health assessment. Evidence of current prescriptive

authority in the state of Wisconsin will be accepted in place of advanced pharmacology.

4. Current registration as a Registered Nurse in the state of Wisconsin.
5. Three (3) letters of recommendation, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
6. Resume or Curriculum Vitae (CV).
7. Personal statement that includes rationale for certificate study and career goals.
8. Personal interview with a faculty member may be requested.
9. One year of clinical experience relevant to the chosen specialty.

## Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The CNS Post-Graduate Certificate consists of 18 credit hours of coursework. All courses are 3 credits each and are offered in a 3-semester sequence so the program can be completed in 12 months. The three practicum courses vary by population focus and must be taken sequentially. The three theory courses vary by population focus and the plan for theory course work must be approved by the CNS option coordinator. The three courses must be graduate level (700 or above) and provide content across the continuum from wellness through acute care for the selected population.

### Adult/Gerontology Track

Code	Title	Credits
<b>Clinical</b>		
NURS 832	Clinical Nurse Specialist Practicum I-Adult/Gerontology	3
NURS 833	Clinical Nurse Specialist Practicum II-Adult/Gerontology	3
NURS 834	Clinical Nurse Specialist Practicum III-Adult/Gerontology	3
<b>Theory</b>		
NURS 702	Advanced Practice Nursing Adult-Gerontology Chronic Illness	3
NURS 703	Advanced Practice Nursing Adult-Gerontology Acute Illness	3
Select one of the following two courses:		3
NURS 704	Advanced Practice Nursing Adult-Gerontology Critical Illness	

NURS 760	Processes of Aging (Offered regularly during fall semester or NURS 704)	
<b>Total Credits</b>		<b>18</b>

## Pediatric Track

Code	Title	Credits
<b>Clinical</b>		
NURS 817	Clinical Nurse Specialist Practicum I- Pediatric	3
NURS 818	Clinical Nurse Specialist Practicum II- Pediatric	3
NURS 819	Clinical Nurse Specialist Practicum III- Pediatric	3
<b>Theory</b>		
ED PSY 640	Human Development: Theory and Research	3
SOC WRK 771	Development of the Family Over the Life Span	3
NURS 766	Advanced Practice Nursing: Care of the Child and Family	3
<b>Total Credits</b>		<b>18</b>

## Psychiatric/Mental Health Track

Code	Title	Credits
<b>Clinical</b>		
NURS 811	Clinical Nurse Specialist Practicum I- Psychiatric/Mental Health	3
NURS 812	Clinical Nurse Specialist Practicum II- Psychiatric/Mental Health	3
NURS 813	Clinical Nurse Specialist Practicum III- Psychiatric/Mental Health	3
<b>Theory<sup>1</sup></b>		
COUNS 715	Multicultural Counseling	3
NURS 774	Trauma Counseling I: Theory and Research	3
NURS 775	Trauma Counseling II: Diagnosis and Treatment	3
ED PSY 752	Developmental Psychopathology	3
SOC WRK 753	Adult Psychopathology	3
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Recommended courses may include the courses listed under this heading.

## Additional Requirements

### Allowance for Transfer Credit

If approved by the CNS option coordinator, one 3-credit course from an institution other than UWM may be transferred in to meet requirements of the certificate program.

### Completion Requirements

Certificate program progression requirements will be consistent with the School of Nursing requirements for progression in graduate level programs. Students must complete all courses with at least a B- or better

and a cumulative GPA of a 3.00 or greater in order to progress in the program.

### Time limit

It is expected that students will complete the certificate within one year from time of enrollment.

### Certificate Conferral

The certificate will be awarded upon successful completion of the requirements (i.e. once all grades for the certificate courses are officially recorded with a cumulative GPA of 3.0 or greater). Successful completion of the certificate program will be noted on the student's transcript.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Certification and Licensing

On completion of the CNS Certificate program, graduates with a population focus on adult/gerontology or pediatrics will be eligible to take the national CNS certification exams in adult/gerontology or pediatrics offered by American Nurses Credentialing Center (ANCC, 2013) or by the American Association of Critical Care Nurses (AACN) Certification Corporation (AACN, 2014). Upon successful completion of the CNS certification exam, graduates may choose to apply for prescriptive privileges in the state of Wisconsin as an Advanced Practice Nurse Prescriber or APNP (Wisconsin DSPS, 2013). Currently, CNS certification exams are not available for the maternal/infant or psychiatric/mental health populations.

## Family Nurse Practitioner, Graduate Certificate

This 18-credit post graduate Family Nurse Practitioner (FNP) Graduate Certificate is designed to provide advanced practice nurses with preparation as a Family Nurse Practitioner. Upon completing the certificate requirements, students will be eligible to sit for national certification exams offered by the American Nurses Credentialing Center (ANCC) or by the American Academy of Nurse Practitioners National Certification Board (AANPCB). Once nationally certified the FNP is eligible to apply for licensure in all fifty states.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

The admission requirements of the FNP Post Graduate Certificate are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

- A master's or doctoral degree in Nursing from an accredited program providing preparation as a nurse practitioner, clinical nurse specialist, certified nurse midwife, or certified registered nurse anesthetist.
- Certification in their current advanced practice registered nurse specialty as applicable.
- Completion with a grade of B or better of a graduate-level course in physiology/pathophysiology, pharmacology, and comprehensive assessment. Evidence of prescriptive authority in the state of Wisconsin will be accepted in place of graduate pharmacology.
- Current registration as a professional nurse in the state of Wisconsin.
- Three (3) letters of recommendation, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
- Personal interviews with a faculty member may be requested.
- Resume or Curriculum Vitae (CV).
- Personal statement that includes rationale for certificate study and career goals.
- One year of clinical experience relevant to the chosen specialty.

## Credits and Courses

The Post Graduate FNP certificate is designed to provide advanced practice nurses with preparation as a Family Nurse Practitioner. The Certificate is 18 credits; six courses are required. Theory courses are taken concurrently with practicum courses.

Code	Title	Credits
<b>Theory Courses</b>		
NURS 767	Family Nurse Practitioner Theory I	3
NURS 768	Family Nurse Practitioner Theory II	3

NURS 769	Family Nurse Practitioner Theory III	3
<b>Practicum Courses</b>		
NURS 757	Family Nurse Practitioner Practicum I	3
NURS 758	Family Nurse Practitioner Practicum II	3
NURS 759	Family Nurse Practitioner Practicum III	3
<b>Total Credits</b>		<b>18</b>

## Additional Requirements

### Allowance for Transfer Credit

If approved by the FNP Option Coordinator, one 3-credit course from an accredited institution other than UWM may be transferred to meet requirements of the certificate program.

### Completion Requirements

Certificate program progression requirements will be consistent with the College of Nursing requirements for progression in graduate level programs. Students must complete all courses with at least a B- or better and a cumulative GPA of a 3.00 or greater.

### Time limit

It is expected that students will complete the certificate in one year from time of enrollment.

### Certificate Conferral

The certificate will be awarded upon successful completion of the requirements (i.e. once all grades for the certificate courses are officially recorded with cumulative GPA of 3.00 or greater). Successful completion of the certificate program will be noted on the student's transcript.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Global Health, Undergraduate Certificate (School of Nursing)

Anne Dressel, *Director, Center for Global Health Equity, Nursing, Certificate Coordinator*

Connor Sampson, *Advisor, Nursing, sampsocc@uwm.edu*

Global Health is an interdisciplinary undergraduate certificate administered by the Director of the Center for Global Health Equity and the Global Health Advisory Committee (GHAC).

The world is economically, politically, culturally, and technologically connected and interdependent with increasingly mobile populations seeking economic opportunity, security, and safety as a result of civil unrest, regional conflicts, diminished natural resources, poverty, and disease. Although some health problems and issues remain specific to levels and contexts of socio-cultural, economic, and political development within countries, many of the same problems, issues, and concerns transcend geographic boundaries, as should appropriate approaches and solutions. The concept of “global health” describes and addresses these realities. An undergraduate certificate in Global Health will provide students with academic inquiry into:

- the global burden of disease
- the social determinants of health in a global context
- the principles, language, and measurement tools used in global health
- ethics and global health
- the global cultural, religious, and historical contexts of health, disease, and health care

The Global Health Certificate will provide undergraduate students with an opportunity to focus on current global health issues and concerns, policies, processes, programs, and practices that contribute to and hinder global health improvement. A wide array of courses will help students better comprehend the interdisciplinary approach to understanding and addressing global health issues.

## Eligibility

The Global Health Certificate is intended to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.

## Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 21 credits in approved Global Health courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, 9 must be taken at the 300 level or above. A minimum of 6 credits must be taken in the College of Letters and Science. A minimum of 6 credits must be taken in the College of Nursing. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on global health issues may be accepted with the approval of the Certificate Program Coordinator. Other courses not on this list but relevant to the study of global health may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some

of the program’s requirements prior to the approval of this program may count those courses toward completion of the certificate requirements.

The following are required:

Code	Title	Credits
<b>Core</b>		
NURS 301	Introduction to Global Health	3
PH 101	Introduction to Public Health	3
<b>World Regions</b>		
Select one of the following:		3
ANTHRO 104	Lifeways in Different Cultures: A Survey of World Societies	
GEOG 110	The World: Peoples and Regions	
HIST 132	World History Since 1500	
POL SCI 106	Politics of the World’s Nations	
SOCIOL 103	World Society	
<b>Electives</b>		
Select a minimum of 6 credits		6
<b>Fieldwork</b>		
Select one of the following:		3
Internship		
Study Abroad		
Independent Study		
<b>Capstone</b>		
NURS 575	Global Health: Ethics and Human Rights	3
<b>Total Credits</b>		<b>21</b>

## Electives

Code	Title	Credits
AFRIC 329	Economic Growth and Sustainable Development in Africa	3
AFRIC 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
ANTHRO 102	Introduction to Anthropology: Culture and Society	3
ANTHRO 104	Lifeways in Different Cultures: A Survey of World Societies	3
ANTHRO 440	Medical Anthropology	3
ANTHRO/GLOBAL 443	Medicine and Pharmaceuticals in the Global Age	3
ANTHRO 447	The Global Politics of Human Rights	3
CES 210	Introduction to Conservation and Environmental Science	3
ECON 353	Economic Development	3
ETHNIC 375	Global Violence, Disease, and Death	3
NURS 204	Global Maternal and Child Health: From Evidence to Action	3
NURS 401	Global Patterns of Disease	3
NURS 497	Study Abroad:	3
NURS 620	Global Food Security and Systems	3
NURS 690	Global Health Governance: Key Players, Financing and Challenges	3

PH 303	Climate Change, the Environment and Human Health	3
POL SCI 374	Health, Wealth, and Democracy	3
SPANISH 388	Health Issues in the Hispanic World	3

## Fieldwork

Students are required to do an internship, self-designed research project, or study abroad (for a minimum of 3 credits at the 300-level or above) in the field of global health. The purpose of this requirement is to enable the student to engage in global health work through "practical" experience or research. The area of study must be approved by the coordinator of the Global Health Certificate and must meet the requirements of the department through which it is being completed.

The fieldwork requirement can be fulfilled in one of three ways:

- Internship – A number of global health internships are available through the International Studies Major (INTLST 450), as well as other departments and organizations.
- Study Abroad – UWM offers a number of Global Health study abroad programs, through several departments.
- Independent Study – The student may propose a global health research project to a professor in an area of interest. The independent study also must be discussed with and approved by the Global Health Certificate Coordinator.

# Health Professional Education, Graduate Certificate (School of Nursing)

The Health Professional Education certificate is designed to provide health professionals with additional preparation in educational principles and theory to support them in their roles as educators of students and staff in the health professions as well as in the role of patient educator. This program is open to students simultaneously enrolled in a graduate degree program, as well as to health professionals who have completed a baccalaureate, master's, or doctoral degree. The certificate program is a collaborative program between the College of Health Professions and Sciences and Schools of Nursing and Education, and is coordinated through the School of Nursing.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the

Panthera application before completing 6 credits in the certificate sequence.

- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Admission

Applicants are admitted to the certificate program in one of three categories: post-baccalaureate, current student in a UWM graduate health profession program, or post-graduate student.

1. Post-baccalaureate students must have completed a bachelor's degree in a health profession discipline with a grade point average of 2.75 or above (4.0 scale) and not be currently enrolled in a graduate degree program at UWM.
2. The admission requirements of the health professional educational certificate for students enrolled in good standing in a UWM graduate health profession program are consistent with those requirements specified by the program.
3. Post-graduate students must have completed a graduate degree in a health profession or related discipline with a grade point average of 3.0 or above (4.0 scale).

## Credits and Courses

The completion of 15 credit hours (5 courses) is required for the certificate program.

Code	Title	Credits
<b>Core</b>		
AD LDSP 757	Principles and Foundations of Adult Education	3
NURS 731	Practicum and Seminar in Health Professional Education	3
<b>Curriculum/Program Planning &amp; Evaluation Courses</b>		
Select one of the following:		3
AD LDSP 667	Program Planning in Adult Education	
AD LDSP 607	Coordination of Staff Development and Training Program	
AD LDSP 647	Evaluation of Adult, Continuing, and Higher Education Programs	
NURS 752	Curriculum Development in Nursing Education	
<b>Teaching/Instructional Strategies</b>		
Select one of the following:		3
AD LDSP 687	Instructional Design and Teaching Strategies	
AD LDSP 707	Using Technology With Adult Learners	
AD LDSP 827	Seminar in Adult and Organizational Learning	
NURS 705	Instructional Strategies for Patient Education	
<b>Elective Courses</b>		
Select one additional course from the above or from the following:		3
AD LDSP 867	Seminar in Continuing Education in the Professions	

AD LDSP 787	Administration of Adult Education Programs
AD LDSP 547	The Educational Dimensions of Practice with Older Adults
NURS 764	Changing Health Behaviors
CURRINS 774	College Teaching
NURS 751	Teaching in Practice Disciplines
<b>Total Credits</b>	<b>15</b>

A current listing of courses that meet these requirements can be obtained from the College of Health Professions and Sciences or the School of Nursing. Students will need to maintain a 3.0 GPA and meet all other requirements of the Graduate School for continuation in the program. The Practicum and Seminar in Health Professional Education is the last course taken in the certificate program.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Interprofessional Public and Population Health, Graduate Certificate (School of Nursing)

The Interprofessional Public and Population Health Graduate Certificate is designed for students and working professionals involved in program planning and implementation, evaluation, education policy, health policy, engineering administration, research, and other areas related to public and population health. It recognizes that an interdisciplinary, systems approach is essential for communities to solve complicated social and economic problems. No one perspective or set of strategies can address the many dimensions of current societal problems. Prevention and population health are important cornerstones of the solutions to these problems, requiring linkages and new models of interaction among primary care, hospitals, communities and public health.

The Interprofessional Graduate Certificate is a 16-credit program with courses in four core disciplines: epidemiology, health policy, social and behavioral health, and environmental health. The fifth course grounds students in public health principles and practice. The sixth course will provide students the opportunity to engage in interprofessional workshops and other learning forums to foster competencies in interprofessional values, communication and teamwork. Three of the courses, in health behavior, epidemiology and health policy, are offered online, which will provide added flexibility for students.

This program is open to post-baccalaureate students, to those currently enrolled in a UWM graduate degree program, as well as to health professionals who have completed a baccalaureate, master's or doctoral degree. The certificate program is a collaborative program between the College of Health Professions and Sciences, School of Nursing, and the Zilber College of Public Health, and is coordinated through the Zilber College of Public Health with administrative support from the School of Nursing.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The completion of 16 credit hours is required for the certificate program. All students are required to complete six courses (all are 3 credits unless noted):

Code	Title	Credits
PH 700	Structures of Inequality and Population Health	3
PH 703	Environmental Health Sciences	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 803	Health Policy	3
KIN 556	Multilevel Approaches to Changing Physical Activity and Eating Behaviors	3
or KIN 534	Physical Activity, Exercise and Health	
ATRAIN 703	Foundations of Interprofessional Practice	1
<b>Total Credits</b>		<b>16</b>

Students will need to maintain a 3.0 GPA and meet all other standard requirements for UWM graduate students for continuation in the program.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.

- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Nursing Practice, DNP

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

- Program for individuals with a bachelor's degree in nursing and a current Registered Nurse license.
- Program for individuals with an advanced practice master's degree in nursing and a current Registered Nurse license.
- Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Students may be admitted for the Fall or Spring semester, on a part-time or full-time plan of study.

Students entering with a bachelor's degree in nursing or a master of nursing degree and a current RN license choose a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Clinical Nurse Specialist (CNS): Population focus in Adult-Gerontology, or Pediatrics.
- Nursing System Leadership (Nurse Executive)

The online Post-Master's Doctor of Nursing Practice is for Advanced Practice Nurses (NP, CNS, CNM, CRNA) with a master's degree.

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist- Adult-Gerontology
- Clinical Nurse Specialist-Pediatrics
- Nursing System Leadership-Nurse Executive

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).



## Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the School of Nursing:

1. A bachelor's degree or a master's in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 3.0 (4.0 scale).
2. One year of RN experience.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. A current unencumbered Registered Nurse license.
5. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
6. Completion of a personal statement.
7. Current CV or resume.
8. Submission of one writing sample.
9. Personal interview with a faculty member may be requested.

## Reapplication

A student who receives a master's degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

## Credits and Courses

### Post Advanced Practice Master's Curriculum

The Post Advanced Practice Master's Doctor of Nursing Practice (DNP) is a 26- to 32-credit, Post-Master's program, which builds upon the required entry point of advanced practice specialization in nursing. The variable credits reflect the credit intensive load of traditional Master's programs preparing Advanced Practice Nurses (generally greater than 40 credits). Up to six credits from the previous Advanced Practice Master's program may be recognized based on review of the previous Master's Program coursework and transcript if courses are duplicative of required courses.

The program includes 32 credit hours of core theoretical courses, including the advanced nursing practice core (6 credits), an evidence-based practice core (9 credits), a systems core (9 credits), and 8 credits of the DNP Project Core.

Code	Title	Credits
<b>Core Theoretical Coursework</b>		
<i>Foundations of Advanced Nursing Practice Core</i>		
NURS 728	Epidemiological Principles for Population Health	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<i>Evidence Based Practice Core</i>		
NURS 720	Biostatistics and Applications for Nursing Practice	3
NURS 725	Evidence Based Practice in Healthcare	3
NURS 805	Translational and Implementation Science	3
<i>Systems Core</i>		
NURS 750	Outcomes and Quality Management	3

NURS 773	Information Systems to Support Clinical Decision-Making	3
NURS 803	Health Policy	3
<b>Project Core</b>		
NURS 993	DNP Project I: Plan	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>32</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

## Additional Requirements

### Faculty Advisor

The student must have a Faculty Advisor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

### Leadership Practice Immersion

Both the post baccalaureate and post master's curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student's specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

### Time Limit

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master's DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

### Minimum Grade Requirement

For continuation in the program, in addition to general Graduate School requirements (<http://uwm.edu/graduateschool/academic-policies-procedures/>), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

### Residence

The student must meet minimum Graduate School residence requirements.

### DNP Project II: Proposal/Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

### DNP Project III: Leadership Practice Immersion

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not

pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

## Nursing Practice, DNP/Business Administration, MBA

The Lubar College of Business and the University of Wisconsin-Milwaukee School of Nursing collaboratively offer a program designed to provide a combined nursing and business curriculum to strengthen the graduate's performance as a leader and manager in nursing and health care administration.

### Requirements

#### Admission Requirements

##### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

##### Admission

Students are admitted to both the University of Wisconsin-Milwaukee graduate programs in nursing and business administration. The admission requirements are consistent with those specified by the UWM Graduate School, College of Nursing and Lubar College of Business. Applicants may choose to complete either the GMAT (<http://uwm.edu/graduateschool/admission/#gmat>) or GRE (<http://uwm.edu/graduateschool/admission/#gre>) and must have a BS in Nursing degree and at least two years' practice in a health care setting. Three letters of reference are required including one from a former faculty and one from a health care employer.

#### Credits and Courses

MBA foundation coursework provides the basis for the theory and practice of business. The MBA Program requires Bus Adm 701, Business Mathematics (2 cr), and Bus Adm 703, Financial Accounting (3 cr). Bus Adm 701 is waived for individuals who have completed an appropriate academic course in their background, or have earned an appropriate Quantitative sub-score on the GMAT (<http://uwm.edu/graduateschool/admission/#gmat>) or GRE (<http://uwm.edu/graduateschool/admission/#gre>) or have passed the proficiency exam. Bus Adm 703 is waived for individuals who have completed an appropriate course in their background, or have passed the proficiency exam. Bus Adm 701 and Bus Adm 703 do not count toward the degree. Students are also assumed to have basic proficiency in information technology (IT), including the use of word processing, spreadsheets, presentation software, and web browsers. Online resources are available for Bus Adm 701, 703, and IT.

For the coordinated degree program, students will complete **83** credit hours. A student not completing the requirements for the coordinated degree program would need to complete all requirements of an individual program—MBA or DNP—in order to receive a degree.

Code	Title	Credits
<b>Nursing Core</b>		<b>47</b>
NURS 725	Evidence Based Practice in Healthcare	
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	
NURS 728	Epidemiological Principles for Population Health	
NURS 805	Translational and Implementation Science	
NURS 735	Theory for Advanced Practice	
NURS 750	Outcomes and Quality Management	
NURS 770	Nursing Administration	
NURS 773	Information Systems to Support Clinical Decision-Making	
NURS 803	Health Policy	
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	
NURS 826	Nurse Executive Practicum I	
NURS 827	Nurse Executive Practicum II	
NURS 828	Nurse Executive Practicum III	
NURS 993	DNP Project I: Plan	
NURS 994	DNP Project II: Proposal	
NURS 995	DNP Project III: Leadership Practice Immersion	
<b>MBA Core</b>		<b>18</b>
BUSMGMT 704	Accounting Analysis and Control	
BUSMGMT 705	Corporate Finance	
BUSMGMT 707	Information Technology Management in International Businesses	
BUSMGMT 708	Marketing Strategy: Concepts and Practice	
BUSMGMT 709	Predictive Analytics for Managers	
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations	
<b>Dually Applied</b>		<b>18</b>
NURS 720	Biostatistics and Applications for Nursing Practice	
BUS ADM 738	Human Resource Management	
BUSMGMT 706	Managing in a Dynamic Environment	
BUSMGMT 720	Strategic Management in Health Care Organizations <sup>1</sup>	
<i>Constrained Choice Choose two of the following:</i>		
BUS ADM 755	Health Care Administration and Delivery Systems	
BUS ADM 757	Managed Care and Integrated Health Networks	
BUSMGMT 727	Health Care Accounting, Law and Ethics	
NURS 711	Economics of Health Care and Health Care Systems	
<b>Total Credits</b>		<b>83</b>

<sup>1</sup> Integrating course for the coordinated degree program.

## Additional Requirements

A student not completing the requirements for the coordinated degree program would need to complete all requirements of an individual program—MBA or DNP—in order to receive a degree. Students must fulfill the MBA Program Boot Camp and Executive Development activities to meet all graduation requirements.

### DNP Project

The candidate will complete a final comprehensive clinical project as part of the **leadership practice immersion** experience, which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the **faculty advisor**.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the **DNP** project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

### Time Limit

Students in the coordinated MBA/DNP degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Nursing Practice, DNP: Adult-Gerontology Acute Care Nurse Practitioner

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor's degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master's degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Students may be admitted for the Fall or Spring semester, on a part-time or full-time plan of study.

Students entering with a bachelor's degree in nursing or a master of nursing degree and a current RN license choose a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Clinical Nurse Specialist (CNS): Population focus in Adult-Gerontology, or Pediatrics.
- Nursing System Leadership (Nurse Executive)

The online Post-Master's Doctor of Nursing Practice is for Advanced Practice Nurses (NP, CNS, CNM, CRNA) with a master's degree.

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist- Adult-Gerontology
- Clinical Nurse Specialist-Pediatrics
- Nursing System Leadership-Nurse Executive

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the School of Nursing:

1. A bachelor's degree or a master's in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 3.0 (4.0 scale).
2. One year of RN experience.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. A current unencumbered Registered Nurse license.
5. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
6. Completion of a personal statement.
7. Current CV or resume.
8. Submission of one writing sample.
9. Personal interview with a faculty member may be requested.

### Reapplication

A student who receives a master's degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

## Credits and Courses

### Post Baccalaureate Curriculum

The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (9 credits), a research core (9 credits) a systems core (12 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

Code	Title	Credits
<b>Core Theoretical Coursework</b>		
<i>Foundations of Advanced Nursing Practice Core</i>		

NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
<b>Evidence Based Practice Core</b>		
NURS 720	Biostatistics and Applications for Nursing Practice	3
NURS 725	Evidence Based Practice in Healthcare	3
NURS 805	Translational and Implementation Science	3
<b>Systems Core</b>		
NURS 750	Outcomes and Quality Management	3
NURS 773	Information Systems to Support Clinical Decision-Making	3
NURS 803	Health Policy	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Specialty Theory and Practicum</b>		<b>27</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>65</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post Generalist Master's Curriculum (MN or equivalent)

The Post Generalist Master's Curriculum is a minimum of 41 credits that builds upon the required entry point of a Generalist Master's in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master's program coursework and transcript.

Code	Title	Credits
<b>Foundations of Advanced Practice Core</b>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Evidence Based Practice Core</b>		
NURS 805	Translational and Implementation Science (Evidence Based Practice Core)	3
<b>Specialty Theory and Practicum</b>		<b>18</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan (Project Core)	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>41</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post-Master's Curriculum (Other Nursing Master's Degrees)

The Post-Master's Curriculum includes Nursing Master's Degrees that are not Advanced Practice or a Generalist Master's (MN or equivalent). Examples may include a Master's in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master's Program coursework and transcript.

### Adult-Gerontology Acute Care Nurse Practitioner Requirements

Code	Title	Credits
<b>Advanced Practice Speciality Core</b>		
NURS 707	Advanced Pharmacology: Application to Advanced Nursing Practice	9
NURS 753	Pathophysiologic Basis of Advanced Nursing Practice	
NURS 754	Comprehensive Assessment of Health: Implications for Clinical Decision-Making	
<b>Specialty Theory Electives</b>		<b>9</b>
NURS 702	Advanced Practice Nursing Adult-Gerontology Chronic Illness	
NURS 703	Advanced Practice Nursing Adult-Gerontology Acute Illness	
NURS 704	Advanced Practice Nursing Adult-Gerontology Critical Illness	
<b>Practicum in the Area of Specialization</b>		<b>9</b>
NURS 822	Adult-Gerontology Acute Care Nurse Practitioner Practicum I	
NURS 823	Adult-Gerontology Acute Care Nurse Practitioner Practicum II	
NURS 824	Adult-Gerontology Acute Care Nurse Practitioner Practicum III	
<b>Total Credits</b>		<b>27</b>

### Additional Requirements

#### Faculty Advisor

The student must have a Faculty Advisor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

#### Leadership Practice Immersion

Both the post baccalaureate and post master's curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student's specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

#### Time Limit

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master's DNP program must

complete all degree requirements within five years of the first enrollment semester as a degree student.

### Minimum Grade Requirement

For continuation in the program, in addition to general Graduate School requirements (<http://uwm.edu/graduateschool/academic-policies-procedures/>), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

### Residence

The student must meet minimum Graduate School residence requirements.

### DNP Project II: Proposal/Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

### DNP Project III: Leadership Practice Immersion

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

## Nursing Practice, DNP: Clinical Nurse Specialist: Adult-Gerontology

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor's degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master's degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Students may be admitted for the Fall or Spring semester, on a part-time or full-time plan of study.

Students entering with a bachelor's degree in nursing or a master of nursing degree and a current RN license choose a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Clinical Nurse Specialist (CNS): Population focus in Adult-Gerontology, or Pediatrics.
- Nursing System Leadership (Nurse Executive)

The online Post-Master's Doctor of Nursing Practice is for Advanced Practice Nurses (NP, CNS, CNM, CRNA) with a master's degree.

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist- Adult-Gerontology
- Clinical Nurse Specialist-Pediatrics
- Nursing System Leadership-Nurse Executive

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the School of Nursing:

1. A bachelor's degree or a master's in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 3.0 (4.0 scale).
2. One year of RN experience.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. A current unencumbered Registered Nurse license.
5. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
6. Completion of a personal statement.
7. Current CV or resume.
8. Submission of one writing sample.
9. Personal interview with a faculty member may be requested.

### Reapplication

A student who receives a master's degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

## Credits and Courses

### Post Baccalaureate Curriculum

The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (9 credits), a research core (9 credits) a systems core (12 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

Code	Title	Credits
<b>Core Theoretical Coursework</b>		
<i>Foundations of Advanced Nursing Practice Core</i>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
<i>Evidence Based Practice Core</i>		
NURS 720	Biostatistics and Applications for Nursing Practice	3
NURS 725	Evidence Based Practice in Healthcare	3
NURS 805	Translational and Implementation Science	3
<i>Systems Core</i>		
NURS 750	Outcomes and Quality Management	3
NURS 773	Information Systems to Support Clinical Decision-Making	3
NURS 803	Health Policy	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Specialty Theory and Practicum</b>		<b>27</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>65</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post Generalist Master's Curriculum (MN or equivalent)

The Post Generalist Master's Curriculum is a minimum of 41 credits that builds upon the required entry point of a Generalist Master's in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master's program coursework and transcript.

Code	Title	Credits
<b>Foundations of Advanced Practice Core</b>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3

NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Evidence Based Practice Core</b>		
NURS 805	Translational and Implementation Science (Evidence Based Practice Core)	3
<b>Specialty Theory and Practicum</b>		<b>18</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan (Project Core)	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>41</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post-Master's Curriculum (Other Nursing Master's Degrees)

The Post-Master's Curriculum includes Nursing Master's Degrees that are not Advanced Practice or a Generalist Master's (MN or equivalent). Examples may include a Master's in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master's Program coursework and transcript.

### Clinical Nurse Specialist Requirements

The theory courses vary by population focus and must provide content across the continuum from wellness through acute care for the selected population. The plan for theory course work must be approved by the CNS option coordinator. The following courses under the Specialty Theory Electives heading are examples of those that can be included as specialty support credits. Other courses can be included with advisor approval.

Code	Title	Credits
<b>Advanced Practice Specialty Core</b>		
NURS 707	Advanced Pharmacology: Application to Advanced Nursing Practice	3
NURS 753	Pathophysiologic Basis of Advanced Nursing Practice	3
NURS 754	Comprehensive Assessment of Health: Implications for Clinical Decision-Making	3
<b>Specialty Theory Electives</b>		<b>12</b>
NURS 705	Instructional Strategies for Patient Education	
NURS 760	Processes of Aging	
NURS 762	Family Theory and Intervention Strategies for Advanced Nursing Practice	
NURS 763	Issues in Women's Health and Development	
NURS 764	Changing Health Behaviors	
NURS 766	Advanced Practice Nursing: Care of the Child and Family	
NURS 772	Advanced Practice Nursing: Maternal-Infant and Women's Health	
NURS 774	Trauma Counseling I: Theory and Research	

NURS 775	Trauma Counseling II: Diagnosis and Treatment
NURS 779	Special Topics Seminar: (Advanced Practice Nursing I: Health Promotion of Women and Childbearing Families)
NURS 779	Special Topics Seminar: (Advanced Practice Nursing II: Women and Childbearing Families with Acute and Chronic Health Conditions)
NURS 779	Special Topics Seminar: (Advanced Practice Nursing: Theoretical Foundations for Child Health)
NURS 779	Special Topics Seminar: (Advanced Practice Nursing: Health Promotion and Acute Illnesses in Children)
NURS 779	Special Topics Seminar: (Advanced Practice Nursing: Adult-Gerontology: Chronic Illness)
NURS 779	Special Topics Seminar: (Advanced Practice Nursing: Adult-Gerontology: Acute Illness)
NURS 779	Special Topics Seminar: (Special Topics: Palliative Care)
COUNS 710	Counseling: Theory and Issues
COUNS 714	Essentials of Counseling Practice
ED PSY 743	Human Development: Study of Infancy and Early Childhood
ED PSY 746	Human Development: Study of the Adolescent

<b>Practicum</b>	<b>9</b>
<b>Total Credits</b>	<b>30</b>

**Clinical Nurse Specialist: Adult-Gerontology Practicum**

Code	Title	Credits
<b>Practicum Courses</b>		
NURS 832	Clinical Nurse Specialist Practicum I-Adult/Gerontology	3
NURS 833	Clinical Nurse Specialist Practicum II-Adult/Gerontology	3
NURS 834	Clinical Nurse Specialist Practicum III-Adult/Gerontology	3

<b>Total Credits</b>	<b>9</b>
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## Additional Requirements

### Faculty Advisor

The student must have a Faculty Advisor to advise and supervise the student’s studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

### Leadership Practice Immersion

Both the post baccalaureate and post master’s curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student’s specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

### Time Limit

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master’s DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

### Minimum Grade Requirement

For continuation in the program, in addition to general Graduate School requirements (<http://uwm.edu/graduateschool/academic-policies-procedures/>), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

### Residence

The student must meet minimum Graduate School residence requirements.

### DNP Project II: Proposal/Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student’s mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

### DNP Project III: Leadership Practice Immersion

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

## Nursing Practice, DNP: Clinical Nurse Specialist: Pediatrics

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor’s degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master’s degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Students may be admitted for the Fall or Spring semester, on a part-time or full-time plan of study.

Students entering with a bachelor's degree in nursing or a master of nursing degree and a current RN license choose a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Clinical Nurse Specialist (CNS): Population focus in Adult-Gerontology, or Pediatrics.
- Nursing System Leadership (Nurse Executive)

The online Post-Master's Doctor of Nursing Practice is for Advanced Practice Nurses (NP, CNS, CNM, CRNA) with a master's degree.

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist- Adult-Gerontology
- Clinical Nurse Specialist-Pediatrics
- Nursing System Leadership-Nurse Executive

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the School of Nursing:

1. A bachelor's degree or a master's in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 3.0 (4.0 scale).
2. One year of RN experience.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. A current unencumbered Registered Nurse license.
5. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
6. Completion of a personal statement.
7. Current CV or resume.
8. Submission of one writing sample.
9. Personal interview with a faculty member may be requested.

## Reapplication

A student who receives a master's degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

## Credits and Courses

### Post Baccalaureate Curriculum

The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (9 credits), a research core (9 credits) a systems core (12 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

Code	Title	Credits
<b>Core Theoretical Coursework</b>		
<i>Foundations of Advanced Nursing Practice Core</i>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
<i>Evidence Based Practice Core</i>		
NURS 720	Biostatistics and Applications for Nursing Practice	3
NURS 725	Evidence Based Practice in Healthcare	3
NURS 805	Translational and Implementation Science	3
<i>Systems Core</i>		
NURS 750	Outcomes and Quality Management	3
NURS 773	Information Systems to Support Clinical Decision-Making	3
NURS 803	Health Policy	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Specialty Theory and Practicum</b>		<b>27</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>65</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post Generalist Master's Curriculum (MN or equivalent)

The Post Generalist Master's Curriculum is a minimum of 41 credits that builds upon the required entry point of a Generalist Master's in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master's program coursework and transcript.

Code	Title	Credits
<b>Foundations of Advanced Practice Core</b>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3



NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Evidence Based Practice Core</b>		
NURS 805	Translational and Implementation Science (Evidence Based Practice Core)	3
<b>Specialty Theory and Practicum</b>		<b>18</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan (Project Core)	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>41</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post-Master’s Curriculum (Other Nursing Master’s Degrees)

The Post-Master’s Curriculum includes Nursing Master’s Degrees that are not Advanced Practice or a Generalist Master’s (MN or equivalent). Examples may include a Master’s in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master’s Program coursework and transcript.

### Clinical Nurse Specialist Requirements

The theory courses vary by population focus and must provide content across the continuum from wellness through acute care for the selected population. The plan for theory course work must be approved by the CNS option coordinator. The following courses under the Specialty Theory Electives heading are examples of those that can be included as specialty support credits. Other courses can be included with advisor approval.

Code	Title	Credits
<b>Advanced Practice Specialty Core</b>		
NURS 707	Advanced Pharmacology: Application to Advanced Nursing Practice	3
NURS 753	Pathophysiologic Basis of Advanced Nursing Practice	3
NURS 754	Comprehensive Assessment of Health: Implications for Clinical Decision-Making	3
<b>Specialty Theory Electives</b>		<b>12</b>
NURS 705	Instructional Strategies for Patient Education	
NURS 760	Processes of Aging	
NURS 762	Family Theory and Intervention Strategies for Advanced Nursing Practice	
NURS 763	Issues in Women’s Health and Development	
NURS 764	Changing Health Behaviors	
NURS 766	Advanced Practice Nursing: Care of the Child and Family	
NURS 772	Advanced Practice Nursing: Maternal-Infant and Women’s Health	

NURS 774	Trauma Counseling I: Theory and Research
NURS 775	Trauma Counseling II: Diagnosis and Treatment
NURS 779	Special Topics Seminar: (Advanced Practice Nursing I: Health Promotion of Women and Childbearing Families)
NURS 779	Special Topics Seminar: (Advanced Practice Nursing II: Women and Childbearing Families with Acute and Chronic Health Conditions)
NURS 779	Special Topics Seminar: (Advanced Practice Nursing: Theoretical Foundations for Child Health)
NURS 779	Special Topics Seminar: (Advanced Practice Nursing: Health Promotion and Acute Illnesses in Children)
NURS 779	Special Topics Seminar: (Advanced Practice Nursing: Adult-Gerontology: Chronic Illness)
NURS 779	Special Topics Seminar: (Advanced Practice Nursing: Adult-Gerontology: Acute Illness)
NURS 779	Special Topics Seminar: (Special Topics: Palliative Care)
COUNS 710	Counseling: Theory and Issues
COUNS 714	Essentials of Counseling Practice
ED PSY 743	Human Development: Study of Infancy and Early Childhood
ED PSY 746	Human Development: Study of the Adolescent

<b>Practicum</b>	<b>9</b>
<b>Total Credits</b>	<b>30</b>

### Clinical Nurse Specialist: Pediatrics Practicum

Code	Title	Credits
<b>Practicum Courses</b>		
NURS 817	Clinical Nurse Specialist Practicum I- Pediatric	3
NURS 818	Clinical Nurse Specialist Practicum II- Pediatric	3
NURS 819	Clinical Nurse Specialist Practicum III- Pediatric	3
<b>Total Credits</b>		<b>9</b>

## Additional Requirements

#### Faculty Advisor

The student must have a Faculty Advisor to advise and supervise the student’s studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

#### Leadership Practice Immersion

Both the post baccalaureate and post master’s curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student’s specialty focus area and will include an emphasis

on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

### Time Limit

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master's DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

### Minimum Grade Requirement

For continuation in the program, in addition to general Graduate School requirements (<http://uwm.edu/graduateschool/academic-policies-procedures/>), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

### Residence

The student must meet minimum Graduate School residence requirements.

### DNP Project II: Proposal/Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

### DNP Project III: Leadership Practice Immersion

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

## Nursing Practice, DNP: Family Nurse Practitioner

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor's degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master's degree in nursing and a current Registered Nurse license.

3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Students may be admitted for the Fall or Spring semester, on a part-time or full-time plan of study.

Students entering with a bachelor's degree in nursing or a master of nursing degree and a current RN license choose a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Clinical Nurse Specialist (CNS): Population focus in Adult-Gerontology, or Pediatrics.
- Nursing System Leadership (Nurse Executive)

The online Post-Master's Doctor of Nursing Practice is for Advanced Practice Nurses (NP, CNS, CNM, CRNA) with a master's degree.

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist- Adult-Gerontology
- Clinical Nurse Specialist-Pediatrics
- Nursing System Leadership-Nurse Executive

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the School of Nursing:

1. A bachelor's degree or a master's in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 3.0 (4.0 scale).
2. One year of RN experience.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. A current unencumbered Registered Nurse license.
5. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
6. Completion of a personal statement.
7. Current CV or resume.
8. Submission of one writing sample.
9. Personal interview with a faculty member may be requested.

## Reapplication

A student who receives a master's degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

## Credits and Courses

### Post Baccalaureate Curriculum

The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (9 credits), a research core (9 credits) a systems core (12 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

Code	Title	Credits
<b>Core Theoretical Coursework</b>		
<i>Foundations of Advanced Nursing Practice Core</i>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
<i>Evidence Based Practice Core</i>		
NURS 720	Biostatistics and Applications for Nursing Practice	3
NURS 725	Evidence Based Practice in Healthcare	3
NURS 805	Translational and Implementation Science	3
<i>Systems Core</i>		
NURS 750	Outcomes and Quality Management	3
NURS 773	Information Systems to Support Clinical Decision-Making	3
NURS 803	Health Policy	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Specialty Theory and Practicum</b>		<b>27</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>65</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post Generalist Master's Curriculum (MN or equivalent)

The Post Generalist Master's Curriculum is a minimum of 41 credits that builds upon the required entry point of a Generalist Master's in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master's program coursework and transcript.

Code	Title	Credits
<b>Foundations of Advanced Practice Core</b>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3

NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Evidence Based Practice Core</b>		
NURS 805	Translational and Implementation Science (Evidence Based Practice Core)	3
<b>Specialty Theory and Practicum</b>		<b>18</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan (Project Core)	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>41</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post-Master's Curriculum (Other Nursing Master's Degrees)

The Post-Master's Curriculum includes Nursing Master's Degrees that are not Advanced Practice or a Generalist Master's (MN or equivalent). Examples may include a Master's in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master's Program coursework and transcript.

### Family Nurse Practitioner Requirements

Code	Title	Credits
<b>Advanced Practice Specialty Core</b>		<b>9</b>
NURS 707	Advanced Pharmacology: Application to Advanced Nursing Practice	
NURS 753	Pathophysiologic Basis of Advanced Nursing Practice	
NURS 754	Comprehensive Assessment of Health: Implications for Clinical Decision-Making	
<b>Specialty Theory Electives</b>		<b>12</b>
Students develop a plan of study that includes a minimum of 9 credits that support their area of focus. For FNP students, 9 credits of these credits are prescribed.		
NURS 767	Family Nurse Practitioner Theory I	
NURS 768	Family Nurse Practitioner Theory II	
NURS 769	Family Nurse Practitioner Theory III	
<b>Practicum in the Area of Specialization</b>		<b>9</b>
NURS 757	Family Nurse Practitioner Practicum I	
NURS 758	Family Nurse Practitioner Practicum II	
NURS 759	Family Nurse Practitioner Practicum III	
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Faculty Advisor

The student must have a Faculty Advisor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

### Leadership Practice Immersion

Both the post baccalaureate and post master's curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student's specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

### Time Limit

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master's DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

### Minimum Grade Requirement

For continuation in the program, in addition to general Graduate School requirements (<http://uwm.edu/graduateschool/academic-policies-procedures/>), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

### Residence

The student must meet minimum Graduate School residence requirements.

### DNP Project II: Proposal/Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

### DNP Project III: Leadership Practice Immersion

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

## Nursing Practice, DNP: Nursing System Leadership: Nurse Executive

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor's degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master's degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Students may be admitted for the Fall or Spring semester, on a part-time or full-time plan of study.

Students entering with a bachelor's degree in nursing or a master of nursing degree and a current RN license choose a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Clinical Nurse Specialist (CNS): Population focus in Adult-Gerontology, or Pediatrics.
- Nursing System Leadership (Nurse Executive)

The online Post-Master's Doctor of Nursing Practice is for Advanced Practice Nurses (NP, CNS, CNM, CRNA) with a master's degree.

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist- Adult-Gerontology
- Clinical Nurse Specialist-Pediatrics
- Nursing System Leadership-Nurse Executive

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the School of Nursing:

1. A bachelor's degree or a master's in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 3.0 (4.0 scale).
2. One year of RN experience.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. A current unencumbered Registered Nurse license.
5. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
6. Completion of a personal statement.
7. Current CV or resume.

- 8. Submission of one writing sample.
- 9. Personal interview with a faculty member may be requested.

## Reapplication

A student who receives a master’s degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

## Credits and Courses

### Post Baccalaureate Curriculum

The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (9 credits), a research core (9 credits) a systems core (12 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

Code	Title	Credits
<b>Core Theoretical Coursework</b>		
<i>Foundations of Advanced Nursing Practice Core</i>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
<i>Evidence Based Practice Core</i>		
NURS 720	Biostatistics and Applications for Nursing Practice	3
NURS 725	Evidence Based Practice in Healthcare	3
NURS 805	Translational and Implementation Science	3
<i>Systems Core</i>		
NURS 750	Outcomes and Quality Management	3
NURS 773	Information Systems to Support Clinical Decision-Making	3
NURS 803	Health Policy	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Specialty Theory and Practicum</b>		<b>27</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>65</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post Generalist Master's Curriculum (MN or equivalent)

The Post Generalist Master’s Curriculum is a minimum of 41 credits that builds upon the required entry point of a Generalist Master’s in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master’s program coursework and transcript.

Code	Title	Credits
<b>Foundations of Advanced Practice Core</b>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Evidence Based Practice Core</b>		
NURS 805	Translational and Implementation Science (Evidence Based Practice Core)	3
<b>Specialty Theory and Practicum</b>		<b>18</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan (Project Core)	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>41</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post-Master's Curriculum (Other Nursing Master's Degrees)

The Post-Master’s Curriculum includes Nursing Master’s Degrees that are not Advanced Practice or a Generalist Master’s (MN or equivalent). Examples may include a Master’s in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master’s Program coursework and transcript.

### Nursing System Leadership Requirements

Students develop a plan of study that includes a 6 credits of required coursework, 12 credits that support their area of focus and a 9 credit practicum. Other courses can be included with advisor approval.

#### Nursing System Leadership: Nurse Executive

Code	Title	Credits
<b>Required Coursework</b>		
NURS 711	Economics of Health Care and Health Care Systems	6
NURS 770	Nursing Administration	
<b>Area of Focus<sup>1</sup></b>		<b>12</b>
AD LDSP 647	Evaluation of Adult, Continuing, and Higher Education Programs	
AD LDSP 667	Program Planning in Adult Education	
BUS ADM 733	Organizational Development	
BUSMGMT 706	Managing in a Dynamic Environment	
BUSMGMT 720	Strategic Management in Health Care Organizations	
PH 740	Special Topics in Public Health: (Program Evaluation)	
<b>Practicum</b>		<b>9</b>
NURS 826	Nurse Executive Practicum I	
NURS 827	Nurse Executive Practicum II	

NURS 828

Nurse Executive Practicum III

Total Credits

27

<sup>1</sup> The following courses are examples of those that can be included in a student's area of focus.

## Additional Requirements

### Faculty Advisor

The student must have a Faculty Advisor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

### Leadership Practice Immersion

Both the post baccalaureate and post master's curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student's specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

### Time Limit

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master's DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

### Minimum Grade Requirement

For continuation in the program, in addition to general Graduate School requirements (<http://uwm.edu/graduateschool/academic-policies-procedures/>), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

### Residence

The student must meet minimum Graduate School residence requirements.

### DNP Project II: Proposal/Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

### DNP Project III: Leadership Practice Immersion

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

## Nursing Practice, DNP: Psychiatric Mental Health Nurse Practitioner

The Doctor of Nursing Practice program at UWM prepares nurses for the highest academic preparation in clinical nursing. The DNP will prepare practitioners who are able to use their education and expertise in evidence-based practice in providing outstanding care and collaborative leadership to improve clinical care delivery, patient outcomes, and system management.

There are three entry options for the Doctor of Nursing (DNP) Practice Program:

1. Program for individuals with a bachelor's degree in nursing and a current Registered Nurse license.
2. Program for individuals with an advanced practice master's degree in nursing and a current Registered Nurse license.
3. Program for individuals with a master of nursing (or equivalent) degree and a current Registered Nurse license.

Students may be admitted for the Fall or Spring semester, on a part-time or full-time plan of study.

Students entering with a bachelor's degree in nursing or a master of nursing degree and a current RN license choose a specialization in one of the following areas:

- Family Nurse Practitioner (FNP)
- Adult-Gerontology Acute Care Nurse Practitioner (AG ACNP)
- Psychiatric-Mental Health Nurse Practitioner (PMHNP)
- Clinical Nurse Specialist (CNS): Population focus in Adult-Gerontology, or Pediatrics.
- Nursing System Leadership (Nurse Executive)

The online Post-Master's Doctor of Nursing Practice is for Advanced Practice Nurses (NP, CNS, CNM, CRNA) with a master's degree.

Transcript Designated Concentrations:

- Family Nurse Practitioner
- Adult-Gerontology Acute Care Nurse Practitioner
- Psychiatric-Mental Health Nurse Practitioner
- Clinical Nurse Specialist- Adult-Gerontology
- Clinical Nurse Specialist-Pediatrics
- Nursing System Leadership-Nurse Executive

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The admission requirements of the DNP program in Nursing are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the School of Nursing:

1. A bachelor's degree or a master's in Nursing from a professionally accredited program, with a minimum undergraduate grade point average of at least 3.0 (4.0 scale).
2. One year of RN experience.
3. Completion with a grade of B or higher of an upper-level undergraduate course in statistics within the last five years.
4. A current unencumbered Registered Nurse license.
5. Three (3) letters of recommendation for graduate study in nursing, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
6. Completion of a personal statement.
7. Current CV or resume.
8. Submission of one writing sample.
9. Personal interview with a faculty member may be requested.

## Reapplication

A student who receives a master's degree from the University of Wisconsin-Milwaukee must formally reapply for admission to the Graduate School before continuing studies toward the DNP.

## Credits and Courses

### Post Baccalaureate Curriculum

The Doctor of Nursing Practice (DNP) is a three-year, full time, 65-credit post-baccalaureate program, which includes 30 credit hours of core theoretical courses, an advanced nursing practice core (9 credits), a research core (9 credits) a systems core (12 credits), 27 credits hours of specialty theory and practicum courses, and 8 credits in the DNP Project Core.

Code	Title	Credits
<b>Core Theoretical Coursework</b>		
<i>Foundations of Advanced Nursing Practice Core</i>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
<i>Evidence Based Practice Core</i>		
NURS 720	Biostatistics and Applications for Nursing Practice	3
NURS 725	Evidence Based Practice in Healthcare	3
NURS 805	Translational and Implementation Science	3
<i>Systems Core</i>		
NURS 750	Outcomes and Quality Management	3
NURS 773	Information Systems to Support Clinical Decision-Making	3
NURS 803	Health Policy	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Specialty Theory and Practicum</b>		<b>27</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan	2
NURS 994	DNP Project II: Proposal	2

NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>65</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post Generalist Master's Curriculum (MN or equivalent)

The Post Generalist Master's Curriculum is a minimum of 41 credits that builds upon the required entry point of a Generalist Master's in Nursing (MN or equivalent). Where course background varies, an individual plan of study will be developed based on review of the previous master's program coursework and transcript.

Code	Title	Credits
<b>Foundations of Advanced Practice Core</b>		
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
<b>Evidence Based Practice Core</b>		
NURS 805	Translational and Implementation Science (Evidence Based Practice Core)	3
<b>Specialty Theory and Practicum</b>		<b>18</b>
<b>Project Core</b>		
NURS 993	DNP Project I: Plan (Project Core)	2
NURS 994	DNP Project II: Proposal	2
NURS 995	DNP Project III: Leadership Practice Immersion <sup>1</sup>	4
<b>Total Credits</b>		<b>41</b>

<sup>1</sup> May be completed over 1 or 2 semesters.

### Post-Master's Curriculum (Other Nursing Master's Degrees)

The Post-Master's Curriculum includes Nursing Master's Degrees that are not Advanced Practice or a Generalist Master's (MN or equivalent). Examples may include a Master's in Nursing Education or Nursing Leadership. An individual plan of study will be developed based on review of the previous Master's Program coursework and transcript.

### Psychiatric Mental Health Nurse Practitioner Requirements

Code	Title	Credits
<b>Advanced Practice Specialty Core</b>		
NURS 707	Advanced Pharmacology: Application to Advanced Nursing Practice	9
NURS 753	Pathophysiologic Basis of Advanced Nursing Practice	
NURS 754	Comprehensive Assessment of Health: Implications for Clinical Decision-Making	
<b>Specialty Theory Electives</b>		<b>9</b>
NURS 741	Psychiatric Mental Health Theory I	

NURS 742	Psychiatric Mental Health Theory II	
NURS 743	Psychiatric Mental Health Theory III	
<b>Practicum</b>		<b>9</b>
NURS 781	Psychiatric Mental Health NP Practicum I	
NURS 782	Psychiatric Mental Health NP Practicum II	
NURS 783	Psychiatric Mental Health NP Practicum III	
<b>Total Credits</b>		<b>27</b>

## Additional Requirements

### Faculty Advisor

The student must have a Faculty Advisor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned to a Faculty Advisor at the time of admission.

### Leadership Practice Immersion

Both the post baccalaureate and post master's curriculum include a 4-credit DNP Project III, an experience that will include the required DNP project. This residency experience will include 460 additional clinical hours in the student's specialty focus area and will include an emphasis on the evidence-based practice, leadership and system competencies of the DNP prepared graduate.

### Time Limit

Students in the post baccalaureate DNP program must complete all degree requirements within seven years of the first enrollment semester as a degree student. Students in the post master's DNP program must complete all degree requirements within five years of the first enrollment semester as a degree student.

### Minimum Grade Requirement

For continuation in the program, in addition to general Graduate School requirements (<http://uwm.edu/graduateschool/academic-policies-procedures/>), students must achieve a minimum grade of B- in all required nursing courses. However, an overall GPA of 3.00 is still required for the degree.

### Residence

The student must meet minimum Graduate School residence requirements.

### DNP Project II: Proposal/Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written portfolio and an oral component, taken in that sequence, with each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the DNP curriculum and must be completed prior to beginning the residency experience.

### DNP Project III: Leadership Practice Immersion

The candidate will complete a final comprehensive clinical project as part of the Leadership Practice Immersion experience which demonstrates the ability to implement the principles of evidence-based practice and translation under the direction of the faculty advisor.

The candidate must, as the final step toward the degree, pass an oral examination in defense of the clinical project. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time.

A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and be readmitted to the program and/or candidacy.

## Nursing, BS

The Bachelor of Science in Nursing (BS in Nursing) program at UW-Milwaukee will prepare graduates to be science-based, compassionate nurse leaders through innovative and quality educational programs for all specialties and settings of practice.

As the largest School of Nursing in the state, UW-Milwaukee partners with over 160 clinical agencies to prepare students for beginning positions of responsibility and leadership in providing professional care for clients and their families in a variety of healthcare settings. Classroom and clinical experiences provide students with the knowledge and skills needed to begin a nursing career after graduation including: critical-thinking, clinical leadership, advocacy, and application of the nursing process to deliver care.

The BS in Nursing program is offered on the Milwaukee campus, UW-Washington County and Waukesha campuses and through a Consortial Program at the UW-Parkside campus.

University of Wisconsin-Milwaukee School of Nursing is accredited through the Council of Baccalaureate and Higher Degree Programs of the Commission on Collegiate Nursing Education (CCNE) and the State of Wisconsin Board of Nursing.

## Pre-Professional Program New Freshmen

Students intending to pursue study in professional nursing are advised to complete the following units (one unit equals one year) in high school:

- 1/2 unit of speech (if available)
- 4 units of a foreign language
- 3 units of college preparatory mathematics at or above algebra level (required by UWM)
- 1/2 unit of computer science
- 1 unit of biology
- 1 unit of chemistry
- 1 unit of history
- 3 units of social studies
- 4 units of English (required by UWM)

In addition to completing high school courses, applicants seeking admission to the pre-nursing program must have a composite ACT score of at least 19 (SAT equivalent of 910).

## Transfer Students

Students intending to transfer into the pre-nursing curriculum must meet the following criteria:

1. Completion of a minimum of 15 credits;
2. Cumulative GPA of 2.5 on all completed coursework; and
3. Completion of one transferable science class with a grade of B or better.



(The required pre-nursing science courses include: BIO SCI 101, BIO SCI 202, BIO SCI 203, CHEM 101, CHEM 103, and BMS 332.)

The policies and procedures of the School apply to all students even though the student may be enrolled in courses in another college or school within the University.

The general regulations governing UWM presented in this catalog apply to all pre-nursing students. The pre-nursing classification does not automatically guarantee acceptance into the nursing major.

The PSYCH 101 and NURS 203 sequence is required for Freshman, but transfers who have completed another Psych/Human Growth and Development sequence do not need to take these two courses at UW-Milwaukee.

### Non-Nurse College Graduates

After prerequisites are met, non-nurse college graduates may be admitted into the professional nursing major or the master's (MN) program. Individuals' records, including consideration of related work experiences, are assessed to assign transfer credit for previous college-level coursework and to offer opportunities for credit by examination.

## Professional Program

Students who seek to enter the major and meet eligibility criteria (see below) are required to file an application with the Student Affairs Office, School of Nursing. (This form is in addition to the application form required for admission to the University.) The School of Nursing Undergraduate Program Committee reviews the applications and makes recommendations for admission. Admission to the nursing major is highly competitive. A grade of C or higher must be earned in all requirements for the major. The average GPA of students accepted to the nursing major can be significantly higher than the minimum required GPA of 2.75, and a science minimum GPA of 2.75, needed for application to the major.

### Application Deadlines

Students who seek to enter the nursing major in September must submit applications by the preceding January 2; for January entrance the deadline is the preceding July 24.

### Eligibility Criteria

Students are required to meet the following criteria to be reviewed for selection into the nursing major:

Code	Title	Credits
<b>Coursework</b> <sup>1, 2, 3, 4</sup>		
NURS 101	Cultural Diversity in Health Care	3
NURS 203	Human Growth and Development Across the Life Span	4
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
BIO SCI 101	General Survey of Microbiology	4
CHEM 101	Chemical Science <sup>5</sup>	5
CHEM 103	Survey of Biochemistry <sup>5</sup>	5
BMS 332	Clinical Nutrition	2
ENGLISH 102	College Writing and Research <sup>5</sup>	3
PSYCH 101	Introduction to Psychology	3
Sociology (any course)		3

HS 222 Language of Medicine<sup>6</sup> 3

Additional Professional Admission Requirements	
Demonstration of competency in Math and English.	
Completion of the Transfer Reference Form must be submitted by the Dean of Nursing if an applicant has been enrolled in clinical nursing courses at another college/university. The form and/or attached letter should reflect a positive recommendation for the student's progression into the nursing major.	
An interview with the student making application may be requested at the discretion of the Undergraduate Program Committee.	
Demonstration of satisfactory health as evidenced by physical examination and fulfillment of the health and immunization requirements by the appropriate deadline. The School of Nursing reserves the right to require a student to seek advice of healthcare professionals where it is believed that a condition of health would impede their progress or jeopardize the health of others. The School of Nursing does not discriminate based on a disability and provides reasonable accommodation to qualified students on an individual basis.	
Knowledge of a computer word processing application.	
Criminal background check.	

**Total Credits 43**

- Courses may be repeated only once. No more than two (2) required courses may be repeated. All credit for required courses must have been earned in the 10 years preceding progression into the nursing major. Grades of less than 2.0 (C) must be replaced by grades greater than 2.0 (C) no later than August 31 for fall applicants and December 30 for spring applicants.
- Achieve a minimum grade point average of 2.75 on a 4.0 scale and 2.75 in the required science courses. This GPA is computed on the courses listed above.
- Achieve a minimum grade of 2.0 (C) in each required nursing and non-nursing course.
- All coursework must be completed with acceptable grades before beginning the nursing major.
- Enrollment in freshman-level courses is based on placement test scores. Depending on the outcome of the placement tests, one or more preparatory courses may be required before enrollment in higher-level courses is permitted. Credits earned in preparatory courses do not apply to the 120 credits required for graduation.
- Any course including those from outside Schools/Colleges/Universities would be accepted if designated as "Medical Terminology." Student Affairs and Program Director to evaluate syllabi for applicability.

## BS in Nursing Curriculum

Students must earn a minimum of 120-130 semester credits to complete requirements for the undergraduate degree. A cumulative GPA of 2.0 for all credits earned at UWM is required for graduation. For additional GPA requirements, refer to the Admission (p. 768) tab. Thirty semester credits must be completed on the Milwaukee campus; at least 20 of these credits must be earned in nursing. The required courses are listed below.

Code	Title	Credits
<b>General Education Requirements</b> <sup>1</sup>		
ENGLISH 102	College Writing and Research	3

Select one of the following:		3
MATH 102	Mathematical Literacy for College Students II	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
GER Humanities		6
GER Arts		3
Any SOCIOLOGY Course		3
PSYCH 101	Introduction to Psychology	3
BIO SCI 101	General Survey of Microbiology	4
CHEM 101	Chemical Science	5
CHEM 103	Survey of Biochemistry	5
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
BMS 332	Clinical Nutrition	2
HS 222	Language of Medicine <sup>2</sup>	3
GER Foreign Language (satisfied by one of these options):		0-8
Two years of a single foreign language in high school; or		
Two semesters of a single foreign language in college; or		
Demonstrate ability by examination.		
<b>Nursing</b>		
<i>Pre-Nursing</i>		
NURS 101	Cultural Diversity in Health Care	3
NURS 203	Human Growth and Development Across the Life Span	4
<i>Nursing Theory and Science</i>		
NURS 351	Professional Role 1: Foundations of Professional Practice	2
NURS 352	Health and Illness Concepts 1: Introduction	3
NURS 353	Clinical Practicum 1: Foundations	3
NURS 354	Clinical Nursing Skills 1	1
NURS 398	Health Assessment and Promotion in Nursing Practice	3
NURS 399	Concepts of Pathophysiology and Pharmacotherapeutics 1	4
NURS 400	Concepts of Pathophysiology and Pharmacotherapeutics: 2	4
NURS 419	Concepts of Evidence-based Nursing Practice	3
NURS 420	Professional Role 2: Provider of Care	2
NURS 421	Health and Illness Concepts 2: Acute and Chronic Conditions	3
NURS 422	Clinical Practicum 2: Acute & Chronic Conditions	3
NURS 423	Clinical Nursing Skills 2	1
NURS 435	Concepts of Pathophysiology and Pharmacotherapeutics III	3
NURS 431	Health and Illness Concepts IV: Lifespan	3
NURS 432	Health and Illness Concepts III: Population Health	3
NURS 433	Clinical Practicum 3: Population Health	3
NURS 434	Nursing Informatics and Technology	3

NURS 476	Professional Role 4: Leading in Complex Systems	3
NURS 477	Health and Illness Concepts 5: Complex	3
NURS 478	Clinical Practicum IV: Complex Care	6
NURS 480	Transition to Professional Practice	3
<b>Total Credits</b>		<b>117</b>

<sup>1</sup> (GER credits) - All students are responsible for checking whether they must meet the UWM General Education Requirements. (p. 30)

<sup>2</sup> Any course including those from outside Schools/Colleges/Universities would be accepted if designated as "Medical Terminology." Student Affairs and Program Director to evaluate syllabi for applicability.

## Required Grade/Grade Point Average in the Professional Major

Every nursing student is required to maintain a minimum of a C average (cumulative GPA of 2.0 on a 4.0 scale) on all work attempted in each semester or summer session. Failure to meet this minimum GPA will automatically result in a status of academic probation.

In addition to maintaining a cumulative GPA of 2.0, a student must earn at least a C (2.0) in each required nursing course. (In a practicum nursing course, a student must earn at least a C in both the clinical and theoretical components in order to receive a C as the final course grade.) Any student who earns a grade below C (2.0) in a required nursing course is automatically dropped from the nursing major. Such a student must appeal to the Undergraduate Program Committee for readmission and permission to repeat the course in which a minimum grade of C was not earned.

In a nursing course with limited enrollment or a waiting list, qualified students who have not taken the course previously will have enrollment priority. Progression to the next level of courses is not permitted until all courses of the previous level have been successfully completed.

## Dropping Courses

Students should refer to a current class schedule for information concerning existing University of Wisconsin-Milwaukee drop policy guidelines and any exceptions for individual courses.

Following admission to the nursing major, a student who wishes to drop from a required or elective clinical nursing course or to withdraw must discuss the matter with the instructor, course coordinator or department chair, and the Associate Dean for Academic Affairs. In addition, the student may wish to discuss the matter with an academic advisor in the Student Affairs Office. Written approval to drop must be secured from the instructor and the Associate Dean irrespective of the week of the semester. Any such interruption in the sequence of courses following acceptance into the major requires re-admission to the clinical major. Information about applying for re-admission is available in the College of Nursing's Student Affairs Office.

## Grievance Procedure

The College of Nursing has a formal written grievance procedure, available in the College of Nursing's Student Affairs Office. A grievance is defined as any situation affecting the status of a student in which the student believes his/her rights have been compromised or denied because of an erroneous or arbitrary interpretation or application of rules. Student grievances are reviewed by the College of Nursing's

Undergraduate Program Committee, which recommends the disposition of the grievance to the Associate Dean for Academic Affairs. In addition, this Committee reviews and acts upon all cases of academic misconduct as described in Chapter UWS 17, UWM Student Disciplinary Procedures.

## Student Responsibilities in the Major

Students are expected to provide their own transportation, uniforms, books, supplies, equipment, and other learning resources, such as clients for practice experience, as deemed necessary to meet course objectives.

### Health

Good physical and mental health are essential for study and practice in professional nursing. The faculty of the College of Nursing reserves the responsibility for retaining only those students who demonstrate qualities of physical and mental health generally considered to be imperative for professional nursing practice.

Health and accident insurance is not provided for students by the University of Wisconsin-Milwaukee, or by any clinical agency where students may be assigned for clinical experience. Nursing students are expected to provide for their own personal health and accident insurance coverage.

A physical examination and specified immunizations are required of all students prior to enrollment in nursing practice courses. Expenses of this examination are the student's responsibility. Evidence of a physical examination – to be completed by a nurse practitioner, physician, or a physician assistant of the student's choice – must be submitted to the UWM College of Nursing Student Affairs Office on a date specified by the College of Nursing. The examination must be completed within 90 days before the date on which the student begins clinical nursing coursework. Students who do not meet these requirements may not continue in a clinical nursing practicum course.

Students are required to pass a 10-panel urine drug screen prior to participating in a clinical nursing practicum course. The purposes of the drug screen are to comply with expectations of area healthcare agencies, to provide optimal healthcare, and to support professional nursing's zero tolerance position related to the unlawful use of substances. Students must abide by the drug screen policies of each healthcare agency to which they are assigned for clinical practicums. Students are also required to complete a CPR certification program through American Heart Association at a health care provider level.

### Illness or Prolonged Absence

Students are expected to be present at all scheduled classes and clinical laboratory experiences. Since space in nursing courses is assigned during the first week of the semester, students are expected to be present for all instructional periods during that week as well. Frequent or prolonged absences from scheduled classes and/or clinical experiences may necessitate that the student drop a nursing course. Any planned interruption in coursework should be discussed with the student's advisor at the earliest possible date.

### Safe Professional Practice in Clinical Settings

Students are expected to demonstrate patterns of professional behaviors that follow the legal and ethical codes of nursing; promote the actual or potential well-being of clients, healthcare workers, and self in the biological, psychological, sociological, and cultural realms; demonstrate accountability in preparation, documentation, communication, and continuity of care; and show respect for the human rights of individuals. A student whose pattern of behavior is found to be unsafe may be

terminated from a clinical practicum for reason of unsafe practice at any time during the semester. If the behavior is identified before the drop date, the student will be directed to drop. If the drop date has passed, the student will receive a grade of F for the course. In order to continue in the nursing program, a student who is terminated from a clinical practicum must appeal to the Undergraduate Program Committee for re-admission to the nursing program.

### Travel

Students in nursing are responsible for arranging transportation to and from all agencies or clients' homes used to provide clinical experience for the program. They are also responsible for any related liability. Students are expected to carry insurance on their vehicles.

### Uniforms

Information about the uniform, a one-time investment, is sent to each student with the official letter of acceptance into the major. Students purchase their uniforms after acceptance.

## Professional Credentials

Wisconsin state law requires nurses to be licensed to practice nursing within the state. Licensure is obtained by endorsement or by passing an examination. Students graduating from the College of Nursing are eligible to write the examination if they:

1. are at least 18 years of age;
2. are graduates of a high school or its equivalent;
3. are able to speak, read, and write English; and
4. pay the fee for licensure.

Applicants for registration/licensure in the State of Wisconsin will be asked to state if they have ever been convicted of a criminal offense, excluding minor traffic violations. When individuals have such a conviction, an explanation is requested. An investigation may follow depending upon the circumstances and all the facts related to the situation. Some organizations may require background reviews prior to acceptance of a student by the placement site.

## Plan of Study

Individual course plans may vary. A Communication course in public speaking is strongly recommended (COMMUN 103 or COMMUN 105). Consult your academic advisor to confirm a plan of study.

Year 1		
Semester 1		Credits
MATH 105	Introduction to College Algebra	3
BIO SCI 202	Anatomy and Physiology I	4
PSYCH 101	Introduction to Psychology	3
ENGLISH 102	College Writing and Research	3
NURS 103	Freshman Seminar in Professional Nursing	1
		<b>Credits</b>
		<b>14</b>
Semester 2		Credits
CHEM 100	Chemical Science	4
BIO SCI 203	Anatomy and Physiology II	4
NURS 101	Cultural Diversity in Health Care	3
SOCIOL Course		3
		<b>Credits</b>
		<b>14</b>

Year 2		
<b>Semester 1</b>		
CHEM 101	Chemical Science	5
NURS 203	Human Growth and Development Across the Life Span	4
GER Humanities Elective		3
GER Art Elective		3
	<b>Credits</b>	<b>15</b>
<b>Semester 2</b>		
CHEM 103	Survey of Biochemistry	5
BIO SCI 101	General Survey of Microbiology	4
BMS 332	Clinical Nutrition	2
HS 222	Language of Medicine	3
	<b>Credits</b>	<b>14</b>
Year 3		
<b>Semester 1</b>		
NURS 351	Professional Role 1: Foundations of Professional Practice	2
NURS 399	Concepts of Pathophysiology and Pharmacotherapeutics 1	4
NURS 352	Health and Illness Concepts 1: Introduction	3
NURS 398	Health Assessment and Promotion in Nursing Practice	3
NURS 354	Clinical Nursing Skills 1	1
NURS 353	Clinical Practicum 1: Foundations	3
	<b>Credits</b>	<b>16</b>
<b>Semester 2</b>		
NURS 420	Professional Role 2: Provider of Care	2
NURS 400	Concepts of Pathophysiology and Pharmacotherapeutics: 2	4
NURS 421	Health and Illness Concepts 2: Acute and Chronic Conditions	3
NURS 419	Concepts of Evidence-based Nursing Practice	3
NURS 423	Clinical Nursing Skills 2	1
NURS 422	Clinical Practicum 2: Acute & Chronic Conditions	3
	<b>Credits</b>	<b>16</b>
Year 4		
<b>Semester 1</b>		
NURS 435	Concepts of Pathophysiology and Pharmacotherapeutics III	3
NURS 431	Health and Illness Concepts IV: Lifespan	3
NURS 432	Health and Illness Concepts III: Population Health	3
NURS 434	Nursing Informatics and Technology	3
NURS 433	Clinical Practicum 3: Population Health	3
	<b>Credits</b>	<b>15</b>
<b>Semester 2</b>		
NURS 476	Professional Role 4: Leading in Complex Systems	3
NURS 477	Health and Illness Concepts 5: Complex	3
NURS 480	Transition to Professional Practice	3
NURS 478	Clinical Practicum IV: Complex Care	6
	<b>Credits</b>	<b>15</b>
	<b>Total Credits</b>	<b>119</b>

## Competencies/Program Outcomes

The graduate of the UWM College of Nursing is prepared to practice as a beginning generalist in a variety of settings. In addition, the graduate will possess knowledge and skills that qualify her or him to pursue life-long learning and advanced study. The UWM College of Nursing undergraduate and graduate programs are directed toward enhancing the health of those who live and work in urban communities.

### Patient-centered Care

The graduate will provide holistic care that recognizes patients' (individuals, families, groups, and communities) preferences,

values, and needs and respects patients or their designees as full partners in providing compassionate, coordinated, age and culturally appropriate, safe and effective care.

### Professionalism

The graduate will demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory, and humanistic principles.

### Leadership

The graduate will influence the behavior of individuals or groups of individuals within the environment in a way that will facilitate the establishment and acquisition/achievement of shared goals.

### Systems-based Practice

The graduate will demonstrate an awareness of and responsiveness to the larger context of the health care system, and will demonstrate the ability to effectively call on microsystem resources to provide care that is of optimal quality and value (Adapted from ACGME, n.d.).

### Informatics and Technology

The graduate will use information and technology to communicate, manage knowledge, mitigate error, and support decision making (QSEN, 2007).

### Communication

The graduate will interact effectively with patients, families, and colleagues, fostering mutual respect and shared decision making, to enhance patient satisfaction and health outcomes.

### Teamwork and Collaboration

The graduate will function within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning, and development (Adapted from QSEN, 2007).

### Safety

The graduate will minimize risk of harm to patients and providers through both system effectiveness and individual performance (QSEN, 2007).

### Quality Improvement

The graduate uses data to monitor the outcomes of care processes, and uses improvement methods to design and test changes to continuously improve the quality and safety of health care systems (QSEN, 2007).

### Evidence-based Practice

The graduate will identify, evaluate, and use the best current evidence coupled with clinical expertise and consideration of patients' preferences, experience and values to make practice decisions (Adapted from QSEN, 2007).

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Nursing, MN

The Master of Nursing program at the University of Wisconsin-Milwaukee offers students a nursing master's degree that successfully builds upon their existing degrees. Whether a student is already a practicing nurse or they are looking to earn a second degree in nursing, UWM's program helps students meet their goals of working in a generalist nursing practice at an advanced level or in nursing education.

A variety of program pathways make earning a Master of Nursing degree possible, with track options and program formats tailored to their needs. These four program pathways are: Direct Entry Master's, Expedited MN, BSN-MN (with three tracks: Professional Development Practitioner, Nurse Educator, and Unit Manager), and RN-BSN-MN. Graduates of the MN program will feel prepared to function as an advanced care-giver or educator depending on the track they choose.

## Credits and Courses

The Master of Nursing program at the University of Wisconsin-Milwaukee prepares graduates for roles in generalist nursing practice and education in diverse and urban communities, consistent with the *AACN Vision for Nursing Education* (AACN 2018, 2021). This model allows students to build on a core nursing foundation to an advanced level of nursing education (AACN, 2021). The focus is on the roles that masters-prepared nurses fulfill in the ever-evolving health care system. The program is designed to meet the needs of two types of students who seek a master's degree: 1) Direct Entry Masters students and 2) Students with a baccalaureate in nursing seeking a degree to prepare for an advanced role in nursing.

## Points of Entry to the MN Program

The MN program offers four points of entry: 1) Direct Entry for students with a non-nursing baccalaureate degree; 2) Expedited Entry for Registered Nurses with a non-nursing degree; 3) Registered Nurses with a baccalaureate degree in nursing; and 4) RN's who have completed the RN-BSN program. Each entry point offers individuals the opportunity to build on their current education and experiences and receive an education that positions them for specific roles that advance nursing practice within the health care system.

1. The **Direct Entry** prepare nurses who can function independently, yet collaboratively, at a wide variety of clinical positions with an

emphasis on quality and evidence-based practice. Graduates will be able to provide care for individuals, families, and populations in all healthcare settings and across the lifespan. Graduates will also be prepared with advanced nursing knowledge to apply evidence to practice and address quality concerns to improve patient care and promote patient safety.

2. **Expedited MN entry.** This entry point is open to students who have earned an associate degree in nursing and have a non-nursing baccalaureate degree. They are admitted as a special student and take courses in the RN-BSN program. This will allow them to have the educational experience and meet the competencies for Entry Level (level one) nurses as defined by the AACN in the *Essentials for Nursing* (2021). After completing the required courses, they enter the MN program and proceed with the course of study for the BSN-MN student. Students do not earn a BSN.
3. The **BSN-MN** point of entry is for nurses with a nursing baccalaureate seeking to increase their educational preparation for career advancement to a role usually requiring a masters degree. Health care systems and nursing education organizations are seeking masters prepared nurses to function as Professional Development Practitioners, Nurse Educators and Unit Managers. Professional Development Practitioners carry out roles within health care organizations that assure that nursing personnel have the knowledge and skills needed to be competent providers and have strong clinical judgment. Nursing educators carry out roles within colleges and universities teaching students in classroom, simulation, and health care settings who seek to enter professional nursing practice. Unit managers lead organizational units within the larger health care setting. Managers work to ensure that quality goals are met by assuring resources are in place including recruitment, retention, workforce development, fiscal resource management and representing the organization to patients and families. Graduates of the MN will be prepared to assess and evaluate, develop, implement, and evaluate systematic and innovative approaches to improve quality either directly or through the education of nursing providers, depending on the role.
4. **RN-BSN-MN.** The fourth point of entry is for RNs that enter the UWM education system without a baccalaureate degree. These students must first complete a RN-BSN program and then will be eligible to enter the BSN-MN program.

## Four Program Pathways

1. The **Direct Entry Master's (DEM)** program students are inducted to professional nursing by meeting the essential areas of competency defined by AACN *Essentials* (2021) for entry into practice (Level 1) and the requirements of the State of Wisconsin needed for a nurse entering into professional practice. Graduates are eligible to become a Registered Nurse in the State of Wisconsin. This curriculum is designed with courses to establish clinical knowledge and to support practice as a leader in the clinical setting. Core competencies include provision of care, assessment, clinical practice, identification of quality gaps, utilization of data and information systems, and application and evaluation of evidence to address quality concerns while functioning in an interprofessional team.
2. **Expedited Master's Entry.** Students take courses to bridge requirements between an Associate degree and a Baccalaureate level practice as a professional nurse. These courses are offered in the UWM School of Nursing RN to BSN program, which offers the courses via two modes (FLEX or BSN@Home), and students choose their preferred mode of learning. Students in this pathway will be admitted as "Special Students" and must achieve a B- or above in all RN to BSN

courses and prerequisites to be eligible to apply and enter the MN program. Once students have completed the required courses and any prerequisites, they can apply for admission into the MN program. Students completing this pathway do not earn a BSN.

- 3. BSN-MN.** This is for students that are seeking additional education to prepare themselves for roles in the healthcare system related to educating or leading others. Specific roles include Professional Development Practitioner, Nurse Educator or Unit Manager. Students admitted via this point of entry have a course of study designed to meet the core learning needs of a masters-prepared nurse and then allows for the students to individualize the program by collaborating with the Program Director and Student Affairs to utilize electives to enhance their specific role learning needs.
- 4. RN-BSN-MN, Master's Entry Program.** Registered Nurses with an Associate Degree in Nursing (ADN) but without a Baccalaureate in any discipline enter into the RN to BSN program first. Upon successful completion of the RN to BSN program, they are admitted to the MN program following the BSN-MN pathway. Students taking this pathway earn BSN and MN degrees.

## Curriculum Overview

The curriculum of the Direct Entry Master of Nursing Program is designed to meet the *Essentials of Masters Education in Nursing (2021)* standards. With advanced education curriculum for the direct-entry-level student (4 semesters, two winterims, and one summer) it provides the foundation for nursing practice as indicated in the current AACN Essentials (2021). This program assures that Direct Entry students meet all the entry level competencies for entry level (Level 1) professional nursing practice (AACN, 2021). At program completion, students will be eligible within the State of Wisconsin to take the NCLEX-RN exam to become Registered Nurses.

Program Format: All theory courses in this program may be delivered face to face, hybrid, online or flex format dependent on program needs. All clinical and residency courses are delivered in person.

Admission to the program is the fall of each year for the Direct Entry.

### Direct Entry Master's Program

Code	Title	Credits
NURS 654G	Health Assessment and Promotion	3
NURS 657G	Pharmacotherapeutics for Nursing Practice	3
NURS 653G	Foundations in Pathophysiology for Nursing Practice	4
NURS 670G	Nursing Care of Adults and Older Adults I	3
NURS 671G	Nursing Care of Adults and Older Adults II	3
NURS 672G	Nursing Care of Women and Infants	2
NURS 673G	Nursing Care of Children and Families	2
NURS 674G	Mental Health Nursing Care Across the Lifespan	2
NURS 744		3
NURS 736		3
NURS 675G	Nursing and Society	3
NURS 676G		3
NURS 686G	Professional Nursing Practicum I	3
NURS 688G	Professional Nursing Practicum II	4

NURS 663G	Transformation to Professional Practice	2
NURS 720	Biostatistics and Applications for Nursing Practice	3
NURS 726	Advanced Perspectives on Cultural Diversity and Disparities in Health Care	3
NURS 725	Evidence Based Practice in Healthcare	3
NURS 750	Outcomes and Quality Management	3
NURS 746		3
NURS 733	Integrated Clinical Concepts	3
<b>Total Credits</b>		<b>61</b>

### Expedited Master's Entry Program

The following courses are requirements for the RN with a non-nursing baccalaureate. Students will be admitted as a special student until entry into the Master program and take courses in the RN-BSN program.

Code	Title	Credits
NURS 441X	Chronic Care Management	3
NURS 446X	Research and Evidence-Based Practice	3
NURS 453X	Information Management and Healthcare Technology	3
NURS 454X	Community Health Nursing	3
<b>Total Credits</b>		<b>12</b>

### BSN-MN Curriculum

The BSN-MN component of the program (3 semesters and one optional summer) prepares the student with competencies consistent with a masters in nursing and the core skills and knowledge of a master level nurse with the addition of specialty knowledge and skills needed to function in one of three specialization roles: Professional Development Practitioner, Nurse Educator or Nurse Manager.

Post Baccalaureate and RN expedited master's students may be admitted at the beginning of any semester, including summer.

### Core Courses

Code	Title	Credits
NURS 720	Biostatistics and Applications for Nursing Practice	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3
NURS 733	Integrated Clinical Concepts	3
NURS 773	Information Systems to Support Clinical Decision-Making	3
NURS 725	Evidence Based Practice in Healthcare	3
NURS 750	Outcomes and Quality Management	3
NURS 803	Health Policy	3
NURS 785		3
<b>Total Credits</b>		<b>24</b>

### Students seeking to specialize in Nurse Education

Code	Title	Credits
NURS 716	Theoretical Foundations of Nursing Education	3
NURS 718	Master of Nursing Education Residency I	3

NURS 719	Master of Nursing Education Residency II	3
<b>Total Credits</b>		<b>9</b>

**Students seeking to specialize in other roles:** Three 3-credit electives that must be planned with Program Director and Student affairs advisor.

## Additional Requirements

### Minimum Grade Requirement

For continuance in the program, in addition to general Graduate School requirements students must achieve a minimum grade of B- in all required Master of Nursing practicum courses, a minimum grade of B- in all other required courses, and a cumulative GPA of 3.00.

### Master’s Clinical Project

The student will complete a final comprehensive clinical project.

### Time Limit

Students in the Master of Nursing program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Nursing, PhD

The PhD program in Nursing at the University of Wisconsin-Milwaukee prepares nurses as scholars to conduct independent and collaborative research, to develop and test theory relevant to nursing, and to improve the quality of care by expanding the body of nursing knowledge. Scholars will be prepared to serve the urban community and improve the general accessibility and acceptability of health care.

Specialization is achieved through an approved program of study and includes program elements of coursework, dissertation, and direction of faculty advisors. This specialization is focused on a particular area of nursing practice and the social context within which it occurs.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following School of Nursing requirements to be considered for admission to the doctoral program in Nursing:

1. A bachelor’s or master’s degree with a major in nursing or health related field from a professionally accredited or approved program.
2. A cumulative grade point average of 3.0 on a 4.0 scale for all previous coursework.
3. Completion of a graduate level statistics course within the last 5 years with a grade of B or better.
4. A written statement prepared by the applicant of previous professional experience, personal career goals, research interests,

motivation for PhD study, and educational objectives to be accomplished in the program.

5. Recommendations from at least three persons who have known the applicant in a professional capacity.
6. Two examples of original work that demonstrate the applicant’s academic potential.
7. A conversation with the program director is required as part of the holistic admission process. A telephone conversation or visual online (e.g. Zoom, Teams) video meeting may be used when travel is prohibitive.

## Reapplication

A student who receives the master’s degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

## Credits and Courses

Minimum degree requirements are 61 graduate credits beyond the bachelor’s degree, at least 31 of which must be earned in residence at the University of Wisconsin-Milwaukee. The College of Nursing requires a minimum of 49 graduate credits beyond the master’s degree in nursing or master’s graduate core courses.

Code	Title	Credits
<b>Nursing Core</b>		
NURS 801	Foundations of Inquiry for Health Research	3
NURS 802	The Science of Nursing	3
NURS 803	Health Policy	3
<b>Specialty Core (6 core, 9 elective credits)</b>		
NURS 820	Analysis of Nursing Phenomena	3
NURS 809	Integrative Studies	3
Elective Credits		9
<b>Research Core</b>		
NURS 808	Multivariate Statistics for Healthcare	3
NURS 881	Measurement for Health Research	3
NURS 882	Qualitative Methods in Health Research	3
NURS 883	Quantitative Methods in Health Research	3
NURS 885	Advanced Quantitative Methods in Health Research	3
or NURS 886	Advanced Qualitative Methods in Health Research	
NURS 890	Issues in Scholarship	3
<b>Practicum</b>		
NURS 899	Practicum in Nursing: (Leadership/ Education)	1
NURS 899	Practicum in Nursing: (Research)	1-3
<b>Dissertation</b>		
NURS 997	Doctoral Dissertation (3 credits minimum)	3
<b>Total Credits</b>		<b>47-49</b>

Specialization is achieved through an approved program of study and includes program elements of minor field coursework, supervised research experiences, practicum with emphasis on skill development in nursing leadership/education, dissertation, and the direction of

faculty advisors. The student specializes in a particular area of nursing practice and the social context within which it occurs. The plan for this is developed in consultation with the major professor. Minimum requirements for all formal coursework other than dissertation research can be expected to take at least two academic years of study.

Students admitted without a master's degree in nursing must complete 12 credits of master's program graduate core courses before beginning doctoral level nursing courses. The graduate core courses that must be completed are:

Code	Title	Credits
<b>Graduate Core Courses</b>		
NURS 725	Evidence Based Practice in Healthcare	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 735	Theory for Advanced Practice	3
NURS 804	Healthcare Organization and Systems Leadership for Advanced Practice	3

Post baccalaureate students admitted to the doctoral program will not be granted a master's degree in nursing unless all requirements for the master's degree in nursing are met.

## Additional Requirements

### Major Professor as Advisor

The student is expected to affirm their Major Professor by the end of their second semester of full-time study or the equivalent in earned credits. The date for submission will be published for each semester by the PhD Program Director. The Major Professor will be the student's research advisor, and will serve as chairperson of their Comprehensive Preliminary Examination Committee and the Dissertation Committee. The PhD student must select a Major Professor who is a member of the graduate faculty of the School of Nursing and who has agreed to serve.

### Minimum Grade Requirement

For continuation in the program, in addition to general Graduate School requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/>), students must achieve a minimum grade of B- in all required courses.

### Minor Field

The student must complete a minor of 8 to 12 credits, 6 or more of these credits to be earned from courses in departments outside the School of Nursing. Such courses are selected for their relevance to the student's area of specialization, and are to be taken in the substantive content of the selected minor field.

### Language Requirement

Foreign language competency may be required at the option of the student's major professor.

### Residence

The student must meet minimum Graduate School residence requirements.

### Doctoral Preliminary Examination

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for degree. The doctoral examination comprises a written and an oral component, taken in that sequence, with

each component requiring a passing grade for successful completion. The examination is an integrative experience that is designed to validate the student's mastery of the content of the doctoral program curriculum and readiness to conduct independent research within the student's area of specialization as identified in the formal plan of study.

### Dissertation

The candidate must write a dissertation, which demonstrates ability to formulate a research topic and pursue independent and original investigation under the direction of the major professor.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation. A candidate who does not pass this examination may apply for reexamination within one year from the initial examination date. This reexamination may occur only one time. A candidate who does not pass this examination within program time limits may be required to undergo another comprehensive preliminary examination and readmitted to the program and/or candidacy.

### Time Limit

The student must complete all requirements for the degree within seven years from the date of initial enrollment in the program. The student must complete all requirements for the degree within four years from the time of attainment of dissertator status.

For additional information on the PhD, see the Graduate School Doctoral Requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>) page.

## Nursing, RN to BS Program

The UW-Milwaukee School of Nursing offers the flexibility of two modes of learning for students to complete the RN to BSN program. These include BSN@home through the UW System Collaborative and UW Flexible Option (focus on competency-based education). Students may choose to pursue their RN-to-BSN at a full or part time basis, at the pace that works best for them. Students enjoy the ability to move in and out of what mode best fits their learning style and life needs. We offer online, in-person and competency-based assessment. Prelicensure Associate Degree Nursing (ADN) students can request permission to take courses to satisfy requirements for BSN completion.

Nurses who graduated from Wisconsin Technical Colleges after Dec. 31, 1989, can transfer credits from these programs through formal VTAE articulation agreements.

UW-Milwaukee School of Nursing is accredited through the Council of Baccalaureate and Higher Degree Programs of the Commission on Collegiate Nursing Education (CCNE) and the State of Wisconsin Board of Nursing.

## Admission

Admission requirements for all RN-BSN completion programs include a past Associate's Degree, Diploma, or concurrent enrollment in the ADN program (in 3rd or 4th semester) in nursing and a past cumulative GPA of 2.5 or higher as well as a registered nursing license. Registered Nurses follow admission procedures for transfer students, with deadlines well in advance of the beginning of each semester. The UW Flexible Option has unique admission requirements and admits students every month. For additional information about the UW Flexible Option, students can



call 1-877-895-3276. To ensure success in enrollment and advising, individuals interested in BSN completion, online or face-to-face, should consult with an advisor in the Student Affairs Office, (414) 229-5047. The advisor will provide information on all degree completion options and route the student through the appropriate admission procedures. The advisor will also work with the student to complete an individual plan of study.

## RN to BS Curriculum

The Baccalaureate Degree Program for Registered Nurses is a 121-credit program including UWM General Education Requirements (p. 30) and nursing curriculum requirements. The curriculum requirements are the same for all modes of learning – online, face-to-face and the UW Flexible Option. A cumulative GPA of 2.0 for all credits earned at UWM is required for graduation. Thirty semester credits must be completed on the UWM campus; at least 20 of these credits must be earned in nursing.

Code	Title	Credits
<b>Non-Nursing</b>		
ENGLISH 102	College Writing and Research	3
Humanities		3-6
The Arts		0-3
<i>Social Science</i>		
Sociology		3
<i>Natural/Biological Sciences</i>		
Psychology (any course approved by advisor)		3
Chemistry		4
Biochemistry (or alternative)		4
BIO SCI 202 & BIO SCI 203	Anatomy and Physiology I and Anatomy and Physiology II	8
Microbiology		3
Nutrition		2
Electives		18-24
<i>Competencies<sup>1</sup></i>		
Math		
English		
<i>Cultural Diversity</i>		
Foreign language (may or may not apply)		
<b>Nursing</b>		
NURS 203	Human Growth and Development Across the Life Span	4
<i>Advanced Nursing Courses</i>		
UWS NSG 407	Foundations of Professional Nursing Practice	3
UWS NSG 441	Chronic Care Management	3
UWS NSG 446	Research and Evidence-Based Practice	3
UWS NSG 447	Leadership and Management	3
UWS NSG 453	Information Management and Healthcare Technology	3
UWS NSG 454	Community Health Nursing	3
NURS 445	Capstone Practicum for Registered Nurses <sup>2</sup>	3
Nursing Electives		
NURS 490	Special Studies in Nursing	9
NURS 497	Study Abroad:	

UWS NSG 317	Health Assessment
UWS NSG 365	Current Topics of Nursing:
UWS NSG 369	Clinical Pharmacology
UWS NSG 448	Mental Health Across the Care Continuum
UWS NSG 375	Genetics and Genomics for Health Professionals
UWS NSG 316	Palliative Care

### Previous Nursing

30 Nursing credits are awarded for previous nursing experience upon admission.	30
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<b>Total Credits</b>	<b>121-127</b>
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<sup>1</sup> Demonstration of mathematics and English proficiency by Registered Nurse students is a requirement for enrollment in Capstone Practicum for Registered Nurses (NURS 445). Refer to the UWM Timetable (<http://www4.uwm.edu/schedule/>) for definition of competencies.

<sup>2</sup> Registered Nurse students are permitted to enroll in courses out of the usual sequence in the undergraduate curriculum with the exception of Capstone Practicum for Registered Nurses (NURS 445). This is the final course and all other required courses are prerequisite to this course.

## Competencies/Program Outcomes

The graduate of the UWM College of Nursing is prepared to practice as a beginning generalist in a variety of settings. In addition, the graduate will possess knowledge and skills that qualify her or him to pursue life-long learning and advanced study. The UWM College of Nursing undergraduate and graduate programs are directed toward enhancing the health of those who live and work in urban communities.

### Patient-centered Care

The graduate will provide holistic care that recognizes patients' (individuals, families, groups, and communities) preferences, values, and needs and respects patients or their designees as full partners in providing compassionate, coordinated, age and culturally appropriate, safe and effective care.

### Professionalism

The graduate will demonstrate accountability for the delivery of standard-based nursing care that is consistent with moral, altruistic, legal, ethical, regulatory, and humanistic principles.

### Leadership

The graduate will influence the behavior of individuals or groups of individuals within the environment in a way that will facilitate the establishment and acquisition/achievement of shared goals.

### Systems-based Practice

The graduate will demonstrate an awareness of and responsiveness to the larger context of the health care system, and will demonstrate the ability to effectively call on microsystem resources to provide care that is of optimal quality and value (Adapted from ACGME, n.d.).

### Informatics and Technology

The graduate will use information and technology to communicate, manage knowledge, mitigate error, and support decision making (QSEN, 2007).

## Communication

The graduate will interact effectively with patients, families, and colleagues, fostering mutual respect and shared decision making, to enhance patient satisfaction and health outcomes.

## Teamwork and Collaboration

The graduate will function within nursing and interdisciplinary teams, fostering open communication, mutual respect, shared decision making, team learning, and development (Adapted from QSEN, 2007).

## Safety

The graduate will minimize risk of harm to patients and providers through both system effectiveness and individual performance (QSEN, 2007).

## Quality Improvement

The graduate uses data to monitor the outcomes of care processes, and uses improvement methods to design and test changes to continuously improve the quality and safety of health care systems (QSEN, 2007).

## Evidence-based Practice

The graduate will identify, evaluate, and use the best current evidence coupled with clinical expertise and consideration of patients' preferences, experience and values to make practice decisions (Adapted from QSEN, 2007).

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Peace and Conflict Studies, Undergraduate Certificate

The Peace and Conflict Studies Undergraduate Certificate is premised on the notion that helping people work together to creatively manage conflict will result in more peaceful and just societies, locally and internationally.

Building peace in our community, nation, and world will depend on our ability to work well together to solve problems and pursue opportunities. The Certificate aims to help students build the foundation in these essential skills and is open to students majoring in any field who wish to explore the meaning of peace, including human welfare and quality of life, as well as the resolutions of different types of political, economic, or social conflicts.

The certificate can enhance the resume of students going into social work, education, public administration, law, healthcare, international affairs, human resources and global business. The program is interdisciplinary combining coursework from fields such as social sciences, health sciences, humanities, and more.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

## Eligibility

The Peace and Conflict Studies Undergraduate Certificate is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. The program leading to the certificate is open to students majoring in any field.

## Requirements

A student must complete 18 credits in the program. At least 9 credits must be in advanced courses (300 level and above), and at least 9 credits must be completed at UWM. A 2.500 GPA average is required in the certificate. Students interested in the Peace and Conflict Studies Undergraduate Certificate should consult with the coordinator or their advisor to add the certificate and outline a program of study.

The Peace and Conflict Studies Certificate consists of three areas: Core (3 credits); Fieldwork (3 credits); and Elective Coursework (12 credits), as outlined below:

Code	Title	Credits
<b>Required Core:</b>		
PEACEST 203	Introduction to Peace and Conflict Studies	3
<b>Required Fieldwork: Can be fulfilled in one of three ways:<sup>1</sup></b>		
	Internship	
	Study Abroad	
	Independent Study	
<b>Electives</b>		<b>12</b>
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> The purpose of this requirement is to enable the student to engage in peace studies through "practical" experience or research. The student should be engaged in the "practice of peace" through community service, conflict identification and education, environmental awareness, governmental politics, or social change. The area of study must be approved by the coordinator of the peace studies certificate and must meet the requirements of the department through which it is being

completed. The fieldwork requirement may be fulfilled in one of three ways: an internship, study abroad, or independent study.

### Electives

Students are encouraged to construct an area of concentration from their elective credits. Suggested areas of concentration may be geographic and/or thematic, such as:

- World regions and countries
- World religions and practices
- Conflict resolution skills
- International relations
- Sustainable development
- Peace studies/education
- Environmental studies
- Social change/social justice
- Economic development

Select at least four 3-credit courses. A maximum of 9 credits (3 courses) may be taken in any one department. The list below includes recommended electives and is not exhaustive. Course offerings change from year to year. Students should consult with their advisor or the certificate Coordinator.

Code	Title	Credits
AFRIC 265	Psychological Effects of Racism	3
AFRIC 300	Urban Violence	3
AFRIC 322	Order and Disorder: The Quest for Social Justice	3
AFRIC 344	Global Black Social Movements	3
ANTHRO 150	Multicultural America	3
CES 210	Introduction to Conservation and Environmental Science	3
CES 461	The Politics and Policy of Sustainability	3
COMMUN 350	Intercultural Communication	3
COMMUN 363	Communication in Human Conflict <sup>1</sup>	3
COMMUN 365	Negotiation Skills Workshop	3
COMMUN 450	Cross-Cultural Communication	3
COMPLIT 232	Literature and Politics:	3
COMPLIT 360	Seminar in Literature and Cultural Experience:	3
CRM JST 310	Race, Crime, and Criminal Justice	3
CRM JST 592	Critical Issues in Criminal Justice: (Restorative Justice)	1-3
ECON 353	Economic Development	3
ED POL 111	Introduction to Community Action and Change	3
ED POL 114	Community Issues, Policies, and Solutions	3
ED POL 520	Peace Education	3
ED POL 521	Nonviolence in Education	3
ED POL 579	Current Topics in Cultural Foundations of Education: (Antiracist Education)	1-6
ENGLISH 150	Multicultural America	3
ENGLISH 404	Language, Power, and Identity	3

ETHNIC 102	Transnational Migrations: People on the Move	3
ETHNIC 375	Global Violence, Disease, and Death	3
FILM 150	Multicultural America	3
FRSHWTR 392	Water, Energy, Food, and Climate	3
FRSHWTR 461	Politics and Policy of Sustainability	3
GEOG 114	Geography of Race in the United States	3
GEOG 125	Introduction to Environmental Geography	3
GEOG 333	Muslim Geographies: Identities and Politics	3
GEOG 443	Cities of the World: Comparative Urban Geography	3
GLOBAL 101	Introduction to Global Studies I: People and Politics	3
GLOBAL 361	Environment and Sustainability	3
GLOBAL 371	Rethinking Global Security	3
GLOBAL 442	Humanitarianism in Global Perspective	3
GLOBAL 447	The Global Politics of Human Rghts	3
GLOBAL 451	Access, Security, and Intercultural Contexts in Global Communications	3
GLOBAL 461	The Politics and Policy of Sustainability	3
GLOBAL 471	Strategies for Realizing Security in Global Contexts	3
HCA/BMS/COMSDIS/ KIN/OCCTHPY/ THERREC 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
HIST 150	Multicultural America	3
HIST 248	The First World War	3
HIST 262	North American Indian History to 1887	3
HIST 271	The 1960s in the United States: A Cultural History	3
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3
HIST 287	The Vietnam War	3
HIST 363	Germany: Hitler and the Nazi Dictatorship	3
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3
HIST 387	Colonization in Africa: A History of Resistance and Adaptation	3
HIST 392	The History of Southern Africa	3
HMONG 265	Hmong Americans: History, Culture, and Contemporary Life	3
JEWISH 261	Representing the Holocaust in Words and Images	3
LATINX 101	Introduction to Latino Studies	3
NURS 101	Cultural Diversity in Health Care	3
NURS 575	Global Health: Ethics and Human Rights	3
NURS 620	Global Food Security and Systems	3
PH 142	Exploring Global Environmental Health	3
PH 303	Climate Change, the Environment and Human Health	3

PH 319	Introduction to Health Disparities	3
PHILOS 244	Ethical Issues in Health Care:	3
PHILOS 303	Mind and Knowledge	3
PHILOS 355	Political Philosophy	3
PHILOS 475	Special Topics in Indian Religious Thought: (Gandhi and Nonviolence)	3
POL SCI 316	International Law	3
POL SCI 328	The Arab-Israeli Conflict	3
POL SCI 337	International Organization and the United Nations	3
POL SCI 340	Politics of Nuclear Weapons	3
POL SCI 359	Problems of American Foreign Policy	3
POL SCI 361	History of International Political Thought	3
POL SCI 365	Theories and Methods in International Politics	3
POL SCI 370	International Conflict	3
POL SCI 371	Nationalism and Ethnic Conflict	3
POL SCI 379	Morality, Conflict and War	3
PSYCH 230	Social Psychology: Psychological Perspectives	3
SOCIOL 233	Social Inequality in the United States	3
SOCIOL 325	Social Change	3
SOCIOL 343	Collective Behavior	3
SOCIOL 350	Environmental Sociology	3
THEATRE 204	Theatre and Social Change	3
URBPLAN 141	Urban Planning Solutions to Contemporary Urban Problems	3
URBPLAN 350	Social Justice, Urban Planning and the New Multicultural America	3
URB STD 150	Multicultural America	3
WGS 150	Multicultural America	3
WGS 201	Introduction to Women's and Gender Studies: A Humanities Perspective	3
WGS 401	Global Feminisms	3

## Psychiatric Mental Health Nurse Practitioner (PMHNP), Graduate Certificate

This 18-credit post graduate Psychiatric Mental Health Nurse Practitioner (PMHNP) Graduate Certificate is designed to provide advanced practice nurses with preparation as a PMHNP Practitioner. Upon completing the certificate requirements, students will be eligible to sit for national certification exams offered by the American Nurses Credentialing Center (ANCC). Once nationally certified the PMHNP is eligible to apply for licensure in all fifty states.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

The admission requirements of the psychiatric mental health nurse practitioner graduate certificate program are consistent with those requirements specified by the Graduate School of the University of Wisconsin-Milwaukee. In addition, students must also meet the following requirements for the College of Nursing:

- A master's or doctoral degree in Nursing from an accredited program providing preparation as a nurse practitioner, clinical nurse specialist, certified nurse midwife, or certified registered nurse anesthetist.
- Certification in their current advanced practice registered nurse specialty as applicable.
- Completion with a grade of B or better of a graduate-level course in physiology/pathophysiology, pharmacology, and comprehensive health assessment. Evidence of prescriptive authority in the state of Wisconsin will be accepted in place of graduate pharmacology.
- Current registration as a registered nurse in the state of Wisconsin.
- Three (3) letters of recommendation, two (2) of which are from persons most knowledgeable about the applicant's recent academic and work experiences.
- Personal interviews with a faculty member may be requested.
- Resume or Curriculum Vitae (CV).
- Personal statement that includes rationale for certificate study and career goals.

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Credits and Courses

The Psychiatric Mental Health Nurse Practitioner (PMHNP) Graduate Certificate is 18 credits total. All six courses are required. The three theory courses for this certificate will be offered online. The three practicum courses will be completed with a preceptor in a clinical setting. Practicums must be completed within the state of Wisconsin.

Code	Title	Credits
NURS 741	Psychiatric Mental Health Theory I	3
NURS 742	Psychiatric Mental Health Theory II	3
NURS 743	Psychiatric Mental Health Theory III (effective Spring 2019)	3
NURS 781	Psychiatric Mental Health NP Practicum I	3
NURS 782	Psychiatric Mental Health NP Practicum II	3

NURS 783	Psychiatric Mental Health NP Practicum III	3
<b>Total Credits</b>		<b>18</b>

## Additional Requirements

### Transfer Credit

If approved by the PMHNP faculty, one 3-credit comparable graduate level course from an accredited institution other than UWM may be transferred in to meet requirements of the certificate.

### Completion Requirements

Certificate program progression requirements will be consistent with the College of Nursing requirements for progression in graduate level programs. Students must complete all courses with at least a B- or better and a cumulative GPA of a 3.00 or greater in order to progress in program.

### Certificate Conferral

The certificate will be awarded upon successful completion of the requirements (i.e., once all grades for the certificate courses are officially recorded with a cumulative GPA of 3.0 or more). Successful completion of the certificate program will be noted on the student's official transcript.

### Time Limit

It is expected that students will complete the certificate in one year from time of enrollment.

## Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

## Sustainable Peacebuilding, MSP

The School of Nursing offers an interdisciplinary professional graduate degree program leading to a Master of Sustainable Peacebuilding (MSP). The MSP is designed to prepare students for careers in peacebuilding—e.g. international development, community change, conflict resolution, resource stewardship. The MSP curriculum is designed to develop student expertise in systems thinking, social-ecological interactions, and the application of such concepts to peacebuilding and development fields. MSP students complete 30 credits of interactive coursework with practice-based learning opportunities. In the last semester, MSP students fulfill Graduate School master's degree requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/masters-resources/masters-requirements/>) by completing a capstone (paper,

presentation, & portfolio). MSP offers a two-year or three-year program of study.

Students completing the MSP will:

- Classify the various components of complex social-ecological systems and identify appropriate intervention strategies.
- Recognize patterns of human-environment interaction, including drivers of change resulting in conflict, development, and peacebuilding.
- Acquire critical knowledge across multiple disciplines relevant to development and peacebuilding and relate and translate knowledge among the disciplines.
- Facilitate effective group problem-solving processes, which includes communicating confidently and effectively to diverse audiences.
- Assess systemic outcomes of peacebuilding programs and policies and recommend adaptive modifications for improvement.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The Master of Sustainable Peacebuilding admits students to begin in fall semester only. Applicants must satisfy Graduate School requirements (<http://uwm.edu/graduateschool/students/admission/>) for admission as well as provide the following materials:

- All applicants must hold a bachelor's degree from an accredited program with a minimum GPA of 2.75 (4.0 scale).
- International applicants must provide Proof of English Proficiency. The language of instruction at UWM is English. MSP does not offer a dual- or contingent-admission option. A current resume that clearly articulates the applicant's professional, international, and intercultural experiences as well as language exposure and proficiencies must also be provided.

Applicants are encouraged but not required to submit:

- Two letters of recommendation from persons familiar with the applicant's academic or professional work.
- A writing sample that demonstrates the applicant's critical thinking, research, and writing skills as well as the applicant's ability to think across disciplines. The writing sample can be a previously written academic, professional, or personal piece OR a newly written essay (prompts provided by MSP).

To be considered for admission, all applicants must complete an online application, including:

- Pay the nonrefundable application fee;
- Upload unofficial transcripts from any and all schools attended, regardless of how long ago it may have been. Applicants will be required to submit official transcripts after an admission offer is accepted;
- Upload a current professional resume;

## 4. Upload a 2-3-page Personal Statement (Reason for Graduate Study).

This essay should address the following:

- Why is MSP a good fit for you?
  - What have you studied and/or where have you worked that prepares you for the MSP?
  - How will MSP help you advance your professional goals?
  - Discuss an experience that relates to your goal to join our program.
  - Which faculty member(s), community organizations, and/or global issues are you interested in working on while in MSP?
5. Submit the names and email addresses of at least two references who will write a Letter of Recommendation for you. If possible, include one academic (e.g. advisor) and one professional (e.g. supervisor) reference. At least two letters must be received by UWM for your application to be considered complete.
6. Upload a Writing Sample (max 10 pages) from within the past five years. Examples include:
- Paper from a college course;
  - Excerpt from an undergraduate thesis;
  - Grant proposal;
  - Peer-reviewed article;
  - A web-based piece, such as a blog entry or news article;
  - Project report or evaluation;
  - Guided Research Essay (this is suggested if you do not have a writing sample you would like to submit).
7. Participate in a brief phone or virtual interview that will be scheduled after the candidate's file is reviewed.

Please check the MSP Website (<https://uwm.edu/nursing/academics/msp/>) for up-to-date information on eligibility, application requirements, and deadlines.

## Credits and Courses

The Master of Sustainable Peacebuilding admits students in the 15-month track to begin in spring semester only and students in the 2-year and 3-year tracks to begin in fall semester only. Students may enroll in the 15-month, 2-year or 3-year course of study. Typically, students enroll in the 2-year option. The 15-month option is provided for students seeking an intensive courseload and who have few other commitments. The 3-year option is provided for students who carry extensive responsibilities outside of school for work or caregiving. Students may switch tracks one time. They must discuss this with the Academic Program Manager and provide a revised plan of study. Additional requests to switch tracks are only approved by the Program Director after reviewing extenuating circumstances described in the written request.

30 credits are required for the MSP degree, distributed as follows:

Code	Title	Credits
<b>Core</b>		
MSP 760	Systems Thinking, Mapping, and Sustainability	3
MSP 770	Conflict Analysis and Restorative Practices	3
MSP 771	Facilitation Skills for Peacebuilding	3
MSP 785	Strategic Project Design, Management and Evaluation	3

MSP 786	Transformational Leadership for Peacebuilding	3
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### Core Seminars and Workshops

MSP 762	Conflict Transformation: Negotiation and Mediation Skills	3
MSP 780	Transdisciplinary Research Methods and Information Literacy	3
MSP 781	Evaluation and Organizational Innovation	3

### Electives

Select 3 credits in consultation with advisor(s) that meet the student's academic and professional goals. Credits can be taken in any unit on campus.	3
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### Independent Study

Students may register for the following with approval from the supervising faculty member and the student's faculty advisor:

MSP 799	Independent Study
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### Fieldwork 3

Select one of the following for a fieldwork experiences: <sup>1</sup>

MSP 772	Fieldwork in Sustainable Peacebuilding: US Placement
MSP 773	Fieldwork in Sustainable Peacebuilding: Study Abroad

### Total Credits 30

<sup>1</sup> Students will complete a fieldwork experience, locally in Milwaukee, elsewhere in the U.S., or abroad. Students will engage in work that focuses on a pertinent issue in the broader context of peacebuilding, e.g. food security, water conflict, public health, etc. Students will select from current MSP projects or develop their own projects.

## Additional Requirements

### Progression in the Program

For continuance in the program, in addition to general Graduate School requirements, students must achieve a minimum grade of B- in all required MSP courses including electives.

Before a student can enroll in fieldwork, they must complete the following courses: MSP 760, MSP 770, MSP 771 and MSP 785.

### Advising

As specified in the regulations of the Graduate School, a major professor will be assigned to every person enrolled in the program to advise and supervise their work. Students may request a specific faculty advisor who aligns with their research and professional interests, if desired; however, fulfillment of such requests are not guaranteed.

### Master's Capstone Paper, Portfolio and Presentation

Before graduation students must complete (as outlined in the MSP student handbook) an in-depth reflective essay paper. The paper is the culminating work for the program and focuses on what has been learned over the course of the MSP. The paper is structured around reflection about the student learning outcomes and the professional competencies. In addition to the paper, students submit an e-portfolio. The e-portfolio is developed throughout the program to show progression in knowledge and applied skills. Finally, the student prepares and gives

a final presentation to faculty, staff and peers about key insights and experiences from the program.

### Transfer Credits

Students may transfer in one graduate-level course of up to 3 credits to count as an elective in the curriculum. Students must have received a grade of B or better in the graduate-level transfer course. To be approved as transfer credits, the student must complete the required process as determined by the UWM Graduate School and receive MSP Program Director approval.

## Trauma Informed Care, Graduate Certificate (School of Nursing)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

#### Admission

Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

### Credits and Courses

All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

Code	Title	Credits
<b>Core</b>		
SOC WRK/COUNS/ NURS/OCCTHPY 774	Trauma Counseling I: Theory and Research	3

SOC WRK/COUNS/ NURS/OCCTHPY 775	Trauma Counseling II: Diagnosis and Treatment	3
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Electives		
Select 9 elective credits (see Potential Electives and Recommended Field Work lists below)		9

Recommended Field Work		
Select 3-6 credits from the following: <sup>1</sup>		
SOC WRK 721	Field Instruction I	
SOC WRK 722	Field Instruction II	
SOC WRK 821	Field Instruction III	
SOC WRK 822	Field Instruction IV	
SOC WRK 921	Field Instruction V	
COUNS 764	Supervised Practicum 1 in School Counseling	
COUNS 765	Supervised Practicum 1 in Clinical Mental Health Counseling	
NURS 899	Practicum in Nursing:	
OCCTHPY 725	Occupational Therapy Field Service I	
OCCTHPY 735	Occupational Therapy Field Service II	

<b>Total Credits</b>		<b>15</b>
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<sup>1</sup> Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in in trauma-informed practice field settings, contingent on the respective department’s field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Rehabilitation Sciences & Technology—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

### Potential Electives

Code	Title	Credits
SOC WRK/CRM JST 497	Study Abroad: (Bristol or South Africa or Austria)	1-6
SOC WRK 680G	Death and Dying	3
SOC WRK 690G	Mindfulness and Community Building	3
SOC WRK 753	Adult Psychopathology	3
SOC WRK 754	Child and Adolescent Psychopathology	3
SOC WRK 791	Current Topics in Social Work: (subtopic: Technology in Social Work Practice)	3
SOC WRK 818	Treatment of Co-Occurring Disorders	3
SOC WRK 820	Seminar in Social Work Practice: (Qualifying topics: Violent & Traumatized Families; Motivational Interviewing; or Interventions for Substance Misuse and Screening Brief Intervention and Referral to Treatment for Substance Misuse)	3
PSYCH 711	Current Topics in Psychology: (Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning & Memory)	1-4
PSYCH 727	Cognitive Neuroscience	3
MSP 770	Conflict Analysis and Restorative Practices	3

COUNS 704 & COUNS 705	Multicultural Mental Health Guidelines and Ethics Overview and Multicultural Practice: Awareness and Knowledge of Others <sup>1</sup>	6
COUNS 715	Multicultural Counseling	3
COUNS 744	Multicultural Mental Health Guidelines, Working with First Nations Persons	3
COUNS 812	Clinical Studies in Counseling	3
COUNS 816	Counseling Children and Adolescents	3
COUNS 820	Counseling Appraisal and Clinical Decision-Making	3
COUNS 904	Family Systems Theory, Research, and Practice	3
OCCTHPY 519	Therapeutic Communication	3
OCCTHPY 719	Occupational Therapy in Psychosocial Practice	3
CRM JST 830	Intervention Strategies for Correctional Clients	3
CRM JST 970	Readings in Criminal Justice Research: (Qualifying topics: Victimology; Women and the Criminal Justice System)	3

<sup>1</sup> COUNS 704 and COUNS 705 must be taken together to fulfill this requirement.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Rehabilitation Sciences and Technology (School of)

The UW-Milwaukee School of Rehabilitation Sciences & Technology encompasses a broad range of programs educating future rehabilitation professionals with a strong focus on interprofessional education, technology, research excellence, and community engagement.

The School of Rehabilitation Sciences & Technology offers programs in Assistive Technology and Universal Design, Athletic Training and Performance Psychology, Communication Sciences & Disorders, Occupational Therapy, Sciences and Technology, Physical Therapy and Therapeutic Recreation.

To learn more about the school, please visit the College of Health Professions and Sciences webpage.

## Programs

- Assistive Technology and Accessible Design, Graduate Certificate (School of Rehabilitation Sciences and Technology) (p. 786)
- Athletic Training, MS (p. 787)
- Certified Mental Performance Consultant, Graduate Certificate (p. 789)
- Communication Sciences and Disorders, BS (p. 791)
- Communication Sciences and Disorders, MS (p. 793)
- Health Professional Education, Graduate Certificate (School of Rehabilitation Sciences and Technology) (p. 795)
- Interprofessional Public and Population Health, Graduate Certificate (School of Rehabilitation Sciences and Technology) (p. 797)
- Occupational Science and Technology, BS (p. 798)
- Occupational Therapy, MS (p. 801)
- Occupational Therapy, MS: Assistive Technology and Accessible Design (p. 802)
- Occupational Therapy, MS: Ergonomics (p. 804)
- Occupational Therapy, OTD (p. 806)
- Physical Therapy, DPT (p. 807)
- Pre-Athletic Training (p. 808)
- Pre-Audiology (p. 809)
- Pre-Occupational Therapy (p. 810)
- Pre-Physical Therapy (p. 811)
- Pre-Speech-Language Pathology (p. 812)
- Rehabilitation Science and Technology, MS (p. 813)
- Therapeutic Recreation, Undergraduate Certificate (p. 815)
- Trauma Informed Care, Graduate Certificate (School of Rehabilitation Sciences and Technology) (p. 816)



## Graduate Admission Requirements

Each graduate program has admission requirements in addition to the general Graduate School admission requirements. Refer to Graduate Admission and Costs (p. 20) for the graduate school's admission requirements, and to the specific program for the program's admission requirements.

## Undergraduate Admission

Students interested in the Occupational Science & Technology or the Communication Sciences and Disorders undergraduate programs are encouraged to contact the College of Health Professions and Sciences Office of Student Affairs. Students with bachelor's degrees in other areas are welcome and encouraged to contact Student Affairs for a credit evaluation.

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Carlynn Alt	Clinical Associate Professor	PhD	Marquette University		
Caitlyn Anderson	Clinical Assistant Professor	DPT	Northwestern University		
Monna Arvinen-Barrow	Associate Professor	PhD	University of Northampton, United Kingdom	✓	
Kris Barnekow	Associate Professor	PhD	University of Wisconsin-Madison		✓
Julie A. Behrman	Clinical Assistant Professor	MS, CCC-SLP	Marquette University		
Emily Belter	Clinical Assistant Professor	MS, CCC-SLP	University of Wisconsin-Whitewater		
Ann Dietrich	Clinical Associate Professor	MS	University of Wisconsin-Milwaukee		✓
Jennifer Earl-Boehm	Associate Professor	PhD, ATC	The Pennsylvania State University	✓	
Kyle Ebersole	Professor	PhD, ATC	University of Nebraska	✓	
Joyce Engel	Professor	PhD	University of Kansas		✓
Hayley Ericksen	Clinical Assistant Professor	PhD, ATC	University of Toledo		
Adam Follmer	Clinical Assistant Professor	MS, CCC-SLP	University of Wisconsin-Milwaukee		
Tamicah Gelting	Clinical Associate Professor	MS, OTR	University of Wisconsin-Milwaukee		
John J. Heilmann	Professor	PhD, CCC-SLP	University of Wisconsin-Madison	✓	
Dawn M. Hennes	Associate Clinical Professor	MS, CCC-SLP	University of Wisconsin-Milwaukee		
Sabine Heuer	Associate Professor	PhD, CCC-SLP	Ohio University	✓	
Wendy Huddleston	Associate Professor	PhD, PT	Medical College of Wisconsin	✓	
Jay Kapellusch	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	
Phyllis King	Professor	PhD	University of Wisconsin-Milwaukee	✓	
Theodore King	Professor	PhD			✓
Randal Kohl	Clinical Instructor	MS, CTRS, CPRP, CBIS	University of Wisconsin-La Crosse		
Shelley K. Lund	Associate Professor	PhD, CCC-SLP	The Pennsylvania State University	✓	
Bethanne N. Mazurczak	Clinical Assistant Professor	MS, CCC-SLP, C-NDT	Marquette University		
Renee Mazurek	Clinical Associate Professor	PT, DPT, DHSc	Arizona School of Health Sciences; A.T. Still University		
Barbara Meyer	Professor	PhD	Michigan State University	✓	
Victoria Moerchen	Associate Professor	PhD, PT	University of Wisconsin-Madison	✓	
Nancy Nelson	Clinical Associate Professor	PhD	University of Wisconsin-Milwaukee		
Barbara R. Pauloski	Associate Professor	PhD, CCC-SLP	Northwestern University	✓	
Heidi Plach	Clinical Associate Professor	MS	University of Wisconsin-Milwaukee		
Renee Reckelberg	Clinical Assistant Professor	MS, ATC	University of Illinois- Champaign/ Urbana		
Stacy L. Ryan	Clinical Associate Professor	Au.D, CCC-A, FAAA	Salus University		
Stephanie Schrader	Clinical Assistant Professor	DPT	Carroll University		
Carol H. Seery	Associate Professor	PhD, CCC-SLP	University of Washington		✓
Carol Haertlein Sells	Professor	PhD	Marquette University		✓
Michelle Kaye Silverman	Unlisted	MS, OTR	University of Wisconsin-Milwaukee		

Bhagwant Sindhu	Associate Professor	PhD	University of Florida	✓
Brooke Slavens	Associate Professor	PhD	Marquette University	✓
Roger O. Smith	Professor	PhD	University of Wisconsin-Madison	✓
Adeola (Toni) Solaru	Assistant Clinical Professor	OTD	Columbia University	
Antoinette Spector	Assistant Professor	DPT, PhD	Medical College of Wisconsin	✓
Virginia Stoffel	Associate Professor	PhD	Cardinal Stritch University	✓
Patricia Thomas	Clinical Associate Professor	MPA, CTRS	Long Island University	
Jing Yang	Associate Professor	PhD	The Ohio State University	✓
Inga Wang	Associate Professor	OTR/L, PhD	Johns Hopkins University	✓
Dana Washburn	Clinical Assistant Professor	MS	Rush University, Chicago	

## Assistive Technology and Accessible Design, Graduate Certificate (School of Rehabilitation Sciences and Technology)

The Certificate in Assistive Technology and Accessible Design is an interdisciplinary program designed to meet the demand for assistive technology and accessible design specialists. The School of Rehabilitation Sciences and Technology and the Communication Sciences and Disorders program in the College of Health Professions and Sciences, along with the Department of Teaching and Learning in the School of Education, collaborate on the course offerings and management. The certificate follows a model of prerequisite disability and technology basic knowledge, survey of the fields, assessment, intervention and leadership. Completion of the certificate will help prepare the students to sit for State and National certification examinations as Assistive Technology Specialists, Rehabilitation Engineering Technologist and Low Vision Specialist.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

#### Admission

Students interested in this certificate should contact one of the three sponsoring programs before enrolling in any certificate courses.

Admission to the certificate requires evidence of a basic knowledge of disability and computer applications, evidence of an Undergraduate or Graduate course in anatomy and physiology equivalent to BIO SCI 201 with a grade of C or better (may be taken during first fall or spring semester enrolled depending when it is offered but will require special permission), an undergraduate GPA of at least 2.75 or a graduate GPA of at least 3.0.

### Credits and Courses

Generally, students in the health sciences and exceptional education will have sufficient coursework in disability related studies. Prerequisite evidence in disability related studies may be obtained at the undergraduate level. One of the following is recommended to meet the computer applications requirement.

Code	Title	Credits
EXCEDUC 730	Assistive and Instructional Technology for Students with Disabilities	3
OCCTHPY 750	Computer Applications in Occupational Therapy Practice	3

The Certificate in Assistive Technology and Accessible Design requires completion of a minimum 15 credits as listed below. In special circumstances, the ATAD coordinator and advisory board may approve substitution of an equivalent Assessment or Intervention course relevant to assistive technology and adaptive design as appropriate.

Code	Title	Credits
<b>Introduction</b>		
OCCTHPY 620	Introduction to Assistive and Rehabilitation Technology (must be taken at graduate level)	3
<b>Assessment</b>		
Select one of the following:		3
EXCEDUC 765	Assistive Technology Service Delivery in Schools	
COMSDIS 715	Assessment and Intervention in Augmentative and Alternative Communication	
OCCTHPY 770	Assessment in Assistive Technology and Accessible Design	
OCCTHPY 742	Single Case Experimental Design	
<b>Intervention</b> <sup>2</sup>		
Select one of the following:		3
OCCTHPY 625	Design and Disability	

OCCTHPY 595	Vision I: Introduction to Low Vision & Visual Impairment
OCCTHPY 596	Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention
OCCTHPY 593	Introduction to Biomedical and Rehabilitation Instrumentation
OCCTHPY 999	Advanced Independent Study
EXCEDUC 735	Technology & Instruction for Students with Disabilities
EXCEDUC/OCCTHPY 777	Fieldwork in Assistive Technology
EXCEDUC 799	Independent Reading
COMSDIS 717	Special Populations in Communication Disorders
COMSDIS 791	Research Experience in Communication Sciences and Disorders
COMSDIS 799	Independent Studies

<b>Elective</b>	
Select an additional 3 credits from either Assessment or Intervention list	3
<b>Capstone</b>	
OCCTHPY 760	Assistive and Rehabilitation Technology 3
<b>Total Credits</b>	<b>15</b>

<sup>1</sup> Alternate related graduate-level course can substitute if this course has been completed on an undergraduate level.  
<sup>2</sup> Any U/G course must be taken at graduate level.

## Additional Requirements

### Minimum Grade Requirement

To be awarded the certificate, students must earn a minimum grade of B- in the certificate courses.

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Athletic Training, MS

Athletic trainers are health care professionals who provide physically active people services such as injury/illness prevention, emergency care, clinical diagnosis, therapeutic intervention, and rehabilitation of injuries and medical conditions. Athletic trainers care for people across the lifespan and activity levels, including youth to professional athletes, performing artists, military or civil service personnel, and workers in physically demanding jobs. To become an athletic trainer you must complete a graduate degree in Athletic Training in a program accredited by the Commission on Accreditation of Athletic Training Education (<https://caate.net/>) (CAATE). The UWM Master of Science in Athletic Training (MSAT) (<https://uwm.edu/rehabilitation-sciences-technology/academics/ms-athletic-training/>) is such a program. Upon completion of the degree you must pass the national Board of Certification exam (<https://www.bocatc.org/>), and then you can start working as an athletic trainer.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application Deadline

The early decision deadline is November 1. After that date a rolling admission process is used until the class is filled with highly qualified students. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

To apply for the MS Athletic Training program all application materials must be submitted through the Athletic Training Centralized Application Service (ATCAS) (<https://atcas.liaisoncas.com/applicant-ux/#/login>). The exception is for UWM undergraduate students who are applying to the Accelerated BS-Kinesiology/MS-Athletic Training program who only apply directly to the UWM Graduate School.

## Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Completion of a bachelor's degree from an accredited institution with an overall cumulative grade point average (GPA) of a 3.0 (on a 4.0 scale) preferred. GPA's between 2.75 and 3.0 will be considered if other aspects of the application indicate strong readiness for graduate study. Official transcripts must be submitted. Undergraduate degree must be completed by the time the applicant plans to begin in the MSAT program.
2. Completion of the following 10 foundation courses. A prerequisite GPA of 3.0 (on a 4.0 scale) is recommended:
  - a. Human anatomy
  - b. Human physiology
  - c. Biology
  - d. Psychology
  - e. Statistics
  - f. Chemistry
  - g. Physics
  - h. Exercise physiology
  - i. Biomechanics
  - j. Nutrition
3. Two letters of recommendation. One of the letters must come from an academic reference (preferably a faculty member as opposed to a graduate student instructor). The other letter can come from another professor, an athletic trainer with whom the applicant spent a significant amount of time, or a work supervisor. The recommenders should be able to speak towards the applicant's readiness for graduate level study and aptitude for the athletic training profession.
4. Optional: Completion of observation of athletic training practice with a certified athletic trainer within 12 months of application submission. 10-20 hours of observation is preferred.
5. Optional: GRE scores are optional unless the cumulative GPA is below 2.75.

## Prospective Students

Prospective applicants who have questions about pursuing athletic training are encouraged to contact the program via email at [msat-info@uwm.edu](mailto:msat-info@uwm.edu). Students can also contact the Pre-Athletic Training advisor in the College of Health Professions and Sciences Office of Student Affairs. Prospective applicants are encouraged to carefully review the entirety of this website prior to scheduling an advising appointment.

### Need to complete prerequisite courses?

Prospective applicants who have already completed a bachelor's degree and are interested in taking courses at UWM to satisfy MSAT program prerequisites should contact the Pre-Athletic Training advisor Torry Rufer at 414-229-2758 or [tjruferr@uwm.edu](mailto:tjruferr@uwm.edu).

You will also need to apply for admission to UWM (<http://graduateschool-apply.uwm.edu/>). On the application, applicants should identify their reason for applying as "Undergraduate courses as a visitor/guest student" and their "applying as" status as "Undergraduate non-degree student with a bachelor's degree." Applicants should apply as a second-degree student only if they plan to complete a second bachelor's degree. Questions regarding financial aid for non-degree students should be

directed to Gayla Jenkins ([jenkinsg@uwm.edu](mailto:jenkinsg@uwm.edu)) in the UWM Department of Financial Aid.

## Curriculum Overview

The MS Athletic Training provides students with a structured, tracked curriculum that contains coursework as well as community-engaged opportunities for clinical education, research, and professional development. Philosophies of evidence-based practice, integrated person-centered care, cultural competence, and clinical problem solving will be incorporated into all courses within the curriculum. There are several courses that are taught interprofessionally, where students from multiple healthcare professions learn about, from and with each other. The curriculum meets all of the competencies and requirements set forth by the Commission on the Accreditation of Athletic Training Education. At the completion of the program, students will be eligible to sit for the national certification exam, administered by the Board of Certification, and enter the healthcare workforce.

## Clinical Education

Clinical education experiences provide the student with the opportunity to practice and refine their clinical and decision-making skills in the context of direct patient care under the supervision of a licensed athletic trainer or physician. Students commit an average of 12 hours per week to clinical education. Students will begin the clinical education placements during their first semester and will continue these for each semester of the program. The final two semesters will include a capstone clinical education placement. Clinical placements are guided by concurrent coursework, type of practice setting (i.e., collegiate, high school, clinical, professional sports, industrial), injury risk level, and sociodemographic factors (i.e., gender, age, urban/suburban/rural). All clinical education experiences will be strategically mapped to ensure that each student is exposed to as many of the above factors as possible.

## Credits and Courses

This is a 69-credit, two-year program conducted on a 12-month calendar. Students will matriculate at the start of the Summer term, and take courses for the following Fall, Spring, Summer, Fall, and Spring. Graduation will occur at the end of the Spring term.

Code	Title	Credits
<b>Required Courses</b>		
ATRAN 701	Athletic Training Foundational Skills	1
ATRAN 705	Athletic Training Practice Based Research I	2
ATRAN 706	Athletic Training Practice Based Research II	1
ATRAN 710	Prevention & Care of Emergent Medical Conditions in Athletic Training	4
ATRAN 723	Physiological Regulation in Exertion & Disease	3
ATRAN 725	Gross Anatomical Kinesiology	4
ATRAN 726	Pathoetiology of Musculoskeletal Injury	1
ATRAN 744	Organizational Competencies in Athletic Training	3
ATRAN 745	Administrative Management in Athletic Training	2
ATRAN 747	Clinical Exam and Diagnosis of the Lower Extremity in Athletic Training	3
ATRAN 748	Clinical Exam and Diagnosis of the Head and Spine in Athletic Training	3

ATRAIN 749	Clinical Exam and Diagnosis of Upper Extremity in Athletic Training	3
ATRAIN 753	Medical Physiology II	3
ATRAIN 754	Clinical Exam and Diagnosis of Medical Conditions in Athletic Training	1
ATRAIN 757	Foundations of Therapeutic Interventions in Athletic Training	3
ATRAIN 758	Physical Agents	2
ATRAIN 759	Advanced Therapeutic Interventions	3
ATRAIN 785	Clinical Education in Athletic Training: I	1
ATRAIN 786	Clinical Education in Athletic Training: II	2
ATRAIN 787	Clinical Education in Athletic Training: III	2
ATRAIN 788	Clinical Education in Athletic Training: IV	2
ATRAIN 800	Athletic Training Board of Certification Exam Preparation	2
ATRAIN 883	Capstone Clinical Education in Athletic Training (ATRAIN 883 is 6 credits repeated twice)	12
PRPP 551G	Psychology of Injury: Prevention, Rehabilitation & Return to Participation	3
PRPP 553G	Psychological Considerations for Optimizing Health & Performance	3
<b>Total Credits</b>		<b>69</b>

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned a faculty advisor upon acceptance to the program.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

### Contact Information

Pavilion, Suite 350

## Certified Mental Performance Consultant, Graduate Certificate

The Certified Mental Performance Consultant (CMPC<sup>®</sup>) Graduate Certificate program prepares those who have completed, or are currently completing, a graduate degree (e.g., MS, PhD, PsyD), with the didactic coursework and mentored experiences to be eligible to sit for the CMPC<sup>®</sup> certification exam. The CMPC<sup>®</sup> designation prepares individuals for employment opportunities working alone and/or alongside other health professionals in some of the following settings: general health care (injury prevention and/or rehabilitation), sports medicine, counseling or clinical psychology, adaptive sports, exercise and fitness, military, performing arts, e-sports, and gaming. The CMPC<sup>®</sup> designation enables

already practicing mental health professionals to expand the scope of their practice.

The course and credit requirements for the CMPC<sup>®</sup> Graduate Certificate program depend upon whether the student is completing the program in tandem with another graduate degree or as a post-graduate curriculum.

Upon application into the CMPC<sup>®</sup> Graduate Certificate program, each student will undergo a transcript review whereby prior didactic coursework and prior mentored experience will be compared to the list of didactic coursework and mentored experience requirements to obtain the CMPC<sup>®</sup> designation (as determined by the National Commission for Certifying Agencies).

For additional information, please contact the Program Coordinator, Dr. Monna Arvinen-Barrow (arvinenb@uwm.edu), PhD, CMPC FAASP (United States), CPsychol AFBPsS (United Kingdom), UPV sert. (Finland).

Please visit the Laboratory for Sport Psychology & Performance Excellence (<https://sites.uwm.edu/lab-sppe/>) web page for more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

The CMPC<sup>®</sup> Graduate Certificate program uses a rolling admission process.

The admission requirements of the CMPC<sup>®</sup> Graduate Certificate program are consistent with those requirements specified by the Graduate School of UWM. In addition, students must also meet the following requirements:

- Currently enrolled, and in good standing, in a graduate degree program at an accredited university, OR;
- A Master's or Doctoral degree from an accredited university.
- Transcripts from all university degrees/coursework.
- Current resume or curriculum vitae (CV).
- Personal statement that includes rationale for certificate study and career goals.

- Two letters of recommendation from persons most knowledgeable about the applicant's recent academic and relevant work experiences.
- Electronic interview with program faculty may be requested by the Program Coordinator.
- Students wishing to obtain the CMPC® Graduate Certificate should inform the Program Coordinator and apply using the Graduate School online application.
  - Upon review of the application materials, the Program Coordinator will generate a Plan of Study for the student. The Plan of Study will include the specific Knowledge Areas (i.e., courses and required credits) the student needs to meet the didactic coursework proportion of the CMPC® designation as well as the number and type of mentored experience (i.e., courses and required credits) the student needs to meet the mentored experience portion of the CMPC® designation.
  - The Plan of Study will be shared with the student in-writing and via verbal discussion.
  - A Plan of Study signed by the Program Coordinator and the student will be sent via email to the Graduate School and placed in the student's official file.

## Credits and Courses

### In-Tandem Requirements

Students who enroll in the CMPC® Graduate Certificate program in-tandem with a current graduate degree must complete a minimum of 34 credits. The number of credits needed to obtain this certificate depends on the needs of each student.

Code	Title	Credits
<b>Didactic Coursework</b> <sup>12</sup>		
COUNS 814	Professional, Ethical and Legal Issues in Counseling Psychology <sup>1</sup>	3
PRPP 551G	Psychology of Injury: Prevention, Rehabilitation & Return to Participation (Psychology of Injury: Prevention, Rehabilitation & Return to Participation) <sup>2</sup>	3
PRPP 552G	Psychology of Personal Excellence (Psychology of Personal Excellence) <sup>2</sup>	3
PRPP 553G	Psychological Considerations for Optimizing Health & Performance (Psychological Considerations for Optimizing Health & Performance) <sup>2</sup>	3
PT 723	Physiological Regulation in Exertion & Disease <sup>3</sup>	3
Select one of the following: <sup>4</sup>		
COUNS 751	Multicultural Considerations in Lifespan Psychopathology	3
SOC WRK 753	Adult Psychopathology	3
COUNS 714	Essentials of Counseling Practice <sup>5</sup>	3
ED PSY 624G	Educational Statistical Methods I <sup>6</sup>	3
Select one of the following: <sup>7</sup>		
PSYCH 727	Cognitive Neuroscience	3
PSYCH 756	Psychophysiology	3
COUNS 715	Multicultural Counseling <sup>8</sup>	3

<b>Clinical Experience</b> <sup>9</sup>		<b>10</b>
PRPP 854	Professional Studies in Sport & Performance Psychology <sup>10</sup>	
PRPP 855	Mentored Fieldwork in Sport and Performance Psychology <sup>11</sup>	
<b>Total Credits</b>		<b>40</b>

- 1 Knowledge Area 1: Professional Ethics & Standards
- 2 Knowledge Area 2: Sport Psychology
- 3 Knowledge Area 3: Sport Science
- 4 Knowledge Area 4: Psychopathology
- 5 Knowledge Area 5: Helping Relationships
- 6 Knowledge Area 6: Research Methods & Statistics
- 7 Knowledge Area 7: Psychological Foundations of Behavior
- 8 Knowledge Area 8: Diversity & Culture
- 9 More than 10 credits (equivalent to 400 clinical hours) may be necessary to amass the required combination of clinical hours.
- 10 Students must enroll in and complete PRPP 854 for a total of 6 credits.
- 11 Students must enroll in and complete PRPP 855 for a total of 4 credits.
- 12 Other courses as approved by the program director.

### Post-Graduate Requirements

Students who enroll in the certificate program as a post-graduate with a completed graduate degree must complete a minimum of 15 credits. The number of credits needed to obtain this certificate depends on the needs of each student.

Code	Title	Credits
<b>Didactic Coursework</b>		
Select one or more of the following: <sup>1</sup>		<b>3</b>
PRPP 551G	Psychology of Injury: Prevention, Rehabilitation & Return to Participation (Psychology of Injury: Prevention, Rehabilitation & Return to Participation)	
PRPP 552G	Psychology of Personal Excellence (Psychology of Personal Excellence)	
PRPP 553G	Psychological Considerations for Optimizing Health & Performance (Psychological Considerations for Optimizing Health & Performance)	
<b>Clinical Experience</b> <sup>2</sup>		<b>12</b>
PRPP 854	Professional Studies in Sport & Performance Psychology <sup>3</sup>	
PRPP 855	Mentored Fieldwork in Sport and Performance Psychology <sup>4</sup>	
<b>Total Credits</b>		<b>15</b>

- 1 Knowledge Area 2: Sport Psychology
- 2 More than 12 credits may be necessary to amass the required combination of clinical hours.
- 3 Students must enroll in and complete PRPP 854 for a total of 6 credits.
- 4 Students must enroll in and complete PRPP 855 for a total of 6 credits.

## Additional Requirements

### Transfer Credit

Transfer credit is not allowed for this certificate.

### Minimum Grade Requirement

Students must complete all courses with a grade of B or better (not including B-).

### Time Limit

It is expected that students completing the CMPC<sup>®</sup> Graduate Certificate program in-tandem with another graduate degree at UWM complete the requirements for the certificate within seven years. It is expected that students completing the CMPC<sup>®</sup> Graduate Certificate program as a post-graduate curriculum complete within three or four years, pending credit requirements.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Communication Sciences and Disorders, BS

The Communication Sciences and Disorders Program offers a Bachelor of Science degree, which provides the pre-professional foundation for graduate study. The student who plans to become a professional speech-language pathologist or audiologist will receive preparation in human communication sciences and disorders as well as a broad educational experience in the liberal arts and sciences.

### Requirements

Students must achieve the following:

1. Satisfactory completion of 121 credits;
2. Satisfactory completion of the required courses in the Communication Sciences and Disorders Program, and those required outside the program;

3. Satisfactory completion of the University General Education Requirements (p. 30);
4. A cumulative 2.5 GPA or better in all credits earned at UWM. Students should note that admission to graduate programs in speech-language pathology and audiology is highly competitive. To be competitive with other Graduate School applicants, it is recommended that students maintain a GPA greater than 3.5; and
5. Completion of the last 30 credits in residence at UWM.

Code	Title	Credits
<b>University General Education Requirements</b>		
<i>Competency Requirements</i>		
Oral and Written Communication (OWC) Part A & B		
Quantitative Literacy (QL) Part A & B		
Foreign Language		
<i>Distribution Requirements</i>		
Arts		3
Humanities		6
Natural Sciences <sup>1</sup>		
Social Sciences <sup>1</sup>		
Cultural Diversity <sup>1</sup>		
<i>General Electives</i>		
Select 0-2 credits		0-2
<b>Major Requirements</b>		
COMSDIS 210	Survey of Communication Disorders	3
COMSDIS 220	Anatomy and Physiology of Speech, Hearing, and Language Mechanisms	4
COMSDIS 230	Introduction to Phonetics	4
COMSDIS 240	Normal Speech and Language Development	3
COMSDIS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
COMSDIS 250	Interprofessional Communication in the Health Sciences	3
COMSDIS 350	Clinical Process I: Articulation and Phonology Disorders	3
COMSDIS 351	Clinical Process II: Child Language Disorders	3
COMSDIS 380	Bases of Hearing Science	3
COMSDIS 450	Bases of Fluency and Voice Disorders	3
COMSDIS 460	Survey of Adult Neurogenic Language and Speech Disorders	3
COMSDIS 470	Introduction to Audiology	3
COMSDIS 480	Speech Science	3
COMSDIS 490	Audiologic (Re)Habilitation	3
COMSDIS 520	Counseling in Communication Disorders	3
<b>Extra-Departmental Requirements</b>		
ANTHRO 102	Introduction to Anthropology: Culture and Society	3
	or SOCIOL 101	Introduction to Sociology
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
CHPS 100	New Student Seminar in Health Professions	1

ED PSY 330	Introduction to Learning and Development	3
EXCEDUC 600 or EXCEDUC 300	Survey of Exceptional Education The Exceptional Individual	3
HS 102	Healthcare Delivery in the United States	3
HS 222	Language of Medicine	3
HCA 203	Human Life Cycle	3
LINGUIS 350 or LINGUIS 400	Introduction to Linguistics Introduction to English Linguistics	3
PSYCH 101	Introduction to Psychology	3
PSYCH 260	Child Psychology	3
PHYSICS 120 or CHEM 101	General Physics I (Non-Calculus Treatment) Chemical Science	4-5
ENGLISH 205 or ENGLISH 207	Business Writing Health Science Writing	3
<i>Select one of the following:</i>		3-4
KIN 270	Statistics in the Health Professions: Theory and Practice	
PSYCH 210	Psychological Statistics	
ED PSY 624	Educational Statistical Methods I	
<i>Select one of the following:</i>		3
ED POL 375	Cultural Foundations of Education	
ED POL 500	Sociology and Policy of Urban Communities and Schools	
ED POL 530	Urban Education: Foundations	
ED POL 650	The Civil Rights Movement in Northern Cities	
<i>Select one of the following:</i>		2-3
CURRINS 343	Teaching of Reading (ExcEduc sec)	
CURRINS 643	Balanced Literacy Instruction in the Elementary School	
CURRINS 537	Literacy 2: Assessing and Teaching Literacy through Early Adolescence	
COMSDIS 661	The Role of the Speech-language Pathologist in Literacy	
<i>Select one of the following:</i>		3
HIST 263	North American Indian History Since 1887	
AIS 203	Western Great Lakes American Indian Community Life of the Past	

<sup>1</sup> Satisfied through required courses in the program.

## Plan of Study

Year 1		Credits
<b>Semester 1</b>		
CHPS 100	New Student Seminar in Health Professions	1
BIO SCI 202	Anatomy and Physiology I	4
COMSDIS 210	Survey of Communication Disorders	3
HS 222	Language of Medicine	3
Electives <sup>1</sup>		3
<b>Credits</b>		<b>14</b>
<b>Semester 2</b>		
BIO SCI 203	Anatomy and Physiology II	4

PSYCH 101	Introduction to Psychology	3
ANTHRO 102 or SOCIOL 101	Introduction to Anthropology: Culture and Society or Introduction to Sociology	3
Electives <sup>1</sup>		4
<b>Credits</b>		<b>14</b>
<b>Year 2</b>		
<b>Semester 1</b>		
ENGLISH 205 or ENGLISH 207	Business Writing or Health Science Writing	3
COMSDIS 230	Introduction to Phonetics <sup>2</sup>	4
COMSDIS 250	Interprofessional Communication in the Health Sciences	3
PHYSICS 120 or CHEM 101	General Physics I (Non-Calculus Treatment) or Chemical Science	4-5
HS 102	Healthcare Delivery in the United States	3
<b>Credits</b>		<b>17-18</b>
<b>Semester 2</b>		
COMSDIS 220	Anatomy and Physiology of Speech, Hearing, and Language Mechanisms <sup>2</sup>	4
COMSDIS 240	Normal Speech and Language Development <sup>2</sup>	3
COMSDIS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
PSYCH 260	Child Psychology	3
ED POL 375	Cultural Foundations of Education <sup>3</sup>	3
<b>Credits</b>		<b>16</b>
<b>Year 3</b>		
<b>Semester 1</b>		
COMSDIS 350	Clinical Process I: Articulation and Phonology Disorders	3
COMSDIS 380	Bases of Hearing Science	3
LINGUIS 350 or LINGUIS 400	Introduction to Linguistics or Introduction to English Linguistics	3
KIN 270	Statistics in the Health Professions: Theory and Practice	3
Electives <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Semester 2</b>		
COMSDIS 351	Clinical Process II: Child Language Disorders	3
COMSDIS 450	Bases of Fluency and Voice Disorders	3
HCA 203	Human Life Cycle	3
ED PSY 330	Introduction to Learning and Development <sup>3</sup>	3
HIST 263 or AIS 203	North American Indian History Since 1887 <sup>3</sup> or Western Great Lakes American Indian Community Life of the Past	3
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Semester 1</b>		
COMSDIS 460	Survey of Adult Neurogenic Language and Speech Disorders	3
COMSDIS 470	Introduction to Audiology	3
COMSDIS 480	Speech Science	3
Electives <sup>1</sup>		9
<b>Credits</b>		<b>18</b>
<b>Semester 2</b>		
COMSDIS 490	Audiologic (Re)Habilitation	3
COMSDIS 520	Counseling in Communication Disorders	3
CURRINS 537 or CURRINS 643	Literacy 2: Assessing and Teaching Literacy through Early Adolescence or Balanced Literacy Instruction in the Elementary School	3
EXCEDUC 600 or EXCEDUC 300	Survey of Exceptional Education <sup>3</sup> or The Exceptional Individual	3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>121-122</b>

<sup>1</sup> Electives should be used to meet general education requirements.



<sup>2</sup> COMSDIS 220, COMSDIS 230, and COMSDIS 240 must have a minimum cumulative GPA of 3.00 for admission to the major.

<sup>3</sup> These courses meet a subset of the requirements for Wisconsin Department of Public Instruction for School Certification in Speech-Language Pathology.

## Admission to the Major

To be accepted as a communication sciences and disorders major you must have:

1. A cumulative GPA of 2.75 or better in at least the first 58 credits taken;
2. A GPA of 3.0 or better in COMSDIS 220, COMSDIS 230, and COMSDIS 240;
3. Completion of Oral and Written Communication - Part A competency;
4. Completion of Quantitative Literacy - Part A competency;
5. Completion of an application form for admission to the major;
6. Endorsement by the faculty of the student's written application.

Students will receive written notice of the admission decision. A meeting with your advisor to discuss the program of study is required immediately following admission to the major.

### Appeal Procedures

Students who are refused admission to the major may appeal the decision by writing to the department chairperson and enumerating the reasons they believe their case is exceptional and merits additional consideration. If possible, the appeal should be accompanied by written support from one or more of the faculty, and should include documentation of any extenuating circumstances cited in support of the appeal. A committee composed of the entire faculty of the Communication Sciences and Disorders Program will consider individual student appeals for admission to the major. Students are notified in writing of the faculty's decision concerning the appeal.

## Careers

Individuals who have an educational background in Communication Sciences and Disorders have a variety of employment and career opportunities available to them upon completion of the Bachelor's Degree. For those interested in working with children and adults with disabilities, positions may be found in schools, agencies, health-care facilities, and government. The Communication Sciences and Disorders undergraduate major also provides a good preparation for graduate and certification training in human service-related fields.

### Examples of Jobs for Undergraduate Majors

- Care Coordinator for high-risk children and families
- Case Manager for individuals with developmental disabilities
- Job Coach
- Activity Assistant
- Life Skills Instructor
- Rehabilitation Technician (assists rehabilitation professionals in healthcare settings)
- Classroom Aide
- Special Ed Educational Assistant
- Autism Line Therapist
- In-home Behavioral Support Specialist
- Substitute Teacher

- Childcare Teacher (certification required)
- Peer Recovery Specialist (certification required)

### Jobs Requiring Additional Education (graduate degree or post-baccalaureate certification)

- Speech-Language Pathologist
- Audiologist
- Social Worker
- Occupational Therapist
- Manager, Day Services Program
- Special Education Teacher
- Reading Specialist
- Vocational Rehabilitation Counselor
- Manager, Autism Therapy Agency

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

### Contact Information

**Barbara Pauloski**  
Undergraduate Program Coordinator

## Communication Sciences and Disorders, MS

The Communication Sciences and Disorders Program offers a Master's of Science which prepares students for careers as speech-language pathologists in public schools, hospitals, rehabilitation centers, nursing homes, private practice and university training programs. The program typically takes 2 calendar years to complete. Students usually prepare for service delivery in both school and healthcare clinical settings to

maximize career flexibility. Occasionally, students may choose to focus career preparation on just one type of setting.

Laboratory and instructional facilities include a speech and language clinic, an instructional communication sciences laboratory, and faculty research laboratories. Research and instructional laboratories contain state-of-the-art technology, a variety of acoustic and physiological measurement systems including a swallow station, and augmentative and alternative communication (AAC) devices. Students participate in three semesters of on-campus clinic. Students have the opportunity to participate in research through a thesis or research experience, working closely with a faculty mentor.

Following a minimum of two successful practicum experiences in the on-campus clinics, students are eligible for off-campus externships in medical, rehabilitation, school, and birth-to-three sites. A successful practicum experience is one in which a student earns a grade of S (satisfactory progress). Students placed in these facilities are required to pass a criminal background check prior to the externship placement, in accordance with Wisconsin State Statutes, Chapters 48 and 50.

The master's degree program in speech-language pathology (MS in Communication Sciences and Disorders) at the University of Wisconsin-Milwaukee is accredited by the Council on Academic Accreditation in Audiology and Speech-Language Pathology (<https://caa.asha.org/>) of the American Speech-Language-Hearing Association, 2200 Research Boulevard, Rockville, MD 20850-3289, 301-296-5700.

The Wisconsin Department of Public Instruction (DPI) has also approved the undergraduate/graduate program in communication sciences and disorders. Students in the graduate program are advised individually to select academic coursework and clinical practica so that they may fulfill the standards of the credentials of their choice, including the state professional license issued by the Wisconsin Department of Safety and Professional Services (DSPS), a state public schools license issued by the Wisconsin Department of Public Instruction (DPI), and the national professional Certificate of Clinical Competence in Speech-Language Pathology (CCC) issued by the American Speech-Language-Hearing Association (ASHA).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program.

- Submission of three letters of recommendation from persons familiar with applicant's academic qualifications and achievements.
- Students must apply to the program using the Communication Sciences and Disorders Centralized Application Service (CSDCAS) (<https://csdcas.liaisoncas.com/applicant-ux/#/login>).

Consult the CSD FAQ Website (<https://uwm.edu/healthsciences/academics/ms-communication-sciences-disorders/faqs/>) for information about prerequisite coursework.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Students preparing for professional certification in speech-language pathology must also have transcript credit (which could include coursework, advanced placement, CLEP, or examination of equivalency) for each of the following areas: human or animal biology, physics or chemistry, social/behavioral sciences, and statistics.

## Credits and Courses

Minimum degree requirement is 48 credits, although total degree credits are typically around 52.

Code	Title	Credits
<b>Core Curriculum</b>		
32 credits including the following:		
COMSDIS 670	Advanced Procedures in Aural Rehabilitation for the SLP	3
COMSDIS 701	Research Design and Methods in Communication Sciences and Disorders	3
COMSDIS 702	Clinical Phonology and Articulation	2
COMSDIS 703	Voice Disorders	2
COMSDIS 704	Speech Fluency and Stuttering	3
COMSDIS 706	Language Assessment and Intervention	3
COMSDIS 709	Evaluation and Management of Swallowing Disorders	3
COMSDIS 710	Motor Speech Disorders	3
COMSDIS 712	Acquired Neurogenic Communication Disorders in Adults	3
COMSDIS 715	Assessment and Intervention in Augmentative and Alternative Communication	3
COMSDIS 725	Speech/Language Services in Educational and Medical Environments	2
COMSDIS 784	Professional Portfolio Development I	1
COMSDIS 785	Professional Portfolio Development II	1
<b>Electives</b>		
Select 2 credits of electives (see below)		2
<b>Total Credits</b>		<b>34</b>

The remaining credits will be taken in required clinical practica. The student, in consultation with the major advisor, plans the appropriate practicum courses for on-campus clinics and off-campus externships to meet ASHA certification, DPI and Wisconsin licensure requirements. Only clinical clock hours for practicum experiences in which the student has earned a grade of B or better will apply toward degree, certification, or licensure requirements.

Code	Title	Credits
<b>Clinical Practica</b>		
COMSDIS 720	Advanced Clinical Practice in Speech-Language Pathology:	1-3
COMSDIS 726	Speech-Language Pathology Externship in Medical Environments	6
COMSDIS 727	Speech-Language Pathology Externship in Educational Environments	6
COMSDIS 799	Independent Studies (clinical)	1-3

## Electives

Code	Title	Credits
COMSDIS 579	Special Topics in Communication Sciences and Disorders:	1-3
COMSDIS 630	Communication Disorders in Multicultural Populations	2
COMSDIS 640	Clinical and Research Instrumentation in Communication Sciences & Disorders	2
COMSDIS 661	The Role of the Speech-language Pathologist in Literacy	2
COMSDIS 688	Evaluation and Diagnosis in Speech-Language Pathology	2
COMSDIS 713	Degenerative Cognitive Communication Disorders in Older Adults	2
COMSDIS 717	Special Populations in Communication Disorders	2
COMSDIS 790	Research and Thesis (credits beyond 1)	1-6
COMSDIS 791	Research Experience in Communication Sciences and Disorders	1-3
COMSDIS 799	Independent Studies (academic)	1-3

Students who have fulfilled the program's student learning outcomes in U/G courses (for example, COMSDIS 670) will be waived from taking these courses as part of their graduate program. However, students must still take a minimum of 36 graduate credits in academic coursework and must have a minimum of 48 total graduate credits to complete degree requirements.

## Thesis

Optional. A student may earn up to 6 credits for a thesis (COMSDIS 790) if this option is selected. One of these credits will apply toward the core curriculum, two credits may apply toward the elective credit requirement, and the rest may apply toward the total of 48 credits required for the degree.

## Capstone Project

Students who do not choose the thesis option must complete a capstone project. Capstone projects provide students the opportunity to showcase their growth during the graduate program and illustrate what they have to offer potential employers and the larger society. Students may choose to complete a research experience or an evidence-based case presentation.

## Research Experience

The research experience is a one-credit course (COMSDIS 791) that may involve (but is not limited to) a small-scale original study, a project related to the ongoing research of a faculty member, or a literature review. Students may work individually or in groups. The final product can be

either a research paper or a poster of the research findings, presented at a department symposium.

## Evidence-based Case Presentation

The evidence-based case presentation is an opportunity for students to showcase their growth as a clinician. Students will summarize information from a case as part of the discussion section during each of their clinical externships (COMSDIS 726 and COMSDIS 727). Students opting to complete the evidence-based case presentation as their capstone project will present a summary of their clinical approach using one of these cases during a program symposium. Students are required to apply principles of evidence-based practice in their presentation.

## Additional Requirements

### Major Professor as Advisor

Entering students are assigned a major professor as an advisor to supervise the graduate studies as specified in Graduate School regulations.

### Knowledge and Skills Acquisition (KASA) Assessment

All students will be responsible for completion of the Knowledge and Skills Acquisition (KASA) assessment, which assesses student attainment of learning outcomes in a variety of content areas. Students who are judged by program faculty and staff to be deficient in one or more content areas will be required to take additional coursework or clinical practica until their deficiencies have been satisfied.

Completion of the degree program affords the necessary opportunities to meet licensure and certification requirements. However, it is still the student's responsibility to ensure that their individual course and practicum choices are consistent with the credentials they seek to obtain, and that all competencies and standards have been met.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Health Professional Education, Graduate Certificate (School of Rehabilitation Sciences and Technology)

The Health Professional Education certificate is designed to provide health professionals with additional preparation in educational principles and theory to support them in their roles as educators of students and staff in the health professions as well as in the role of patient educator. This program is open to students simultaneously enrolled in a graduate degree program, as well as to health professionals who have completed a baccalaureate, master's, or doctoral degree. The certificate program is a collaborative program between the College of Health Professions and Sciences and Schools of Nursing and Education, and is coordinated through the School of Nursing.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Admission

Applicants are admitted to the certificate program in one of three categories: post-baccalaureate, current student in a UWM graduate health profession program, or post-graduate student.

1. Post-baccalaureate students must have completed a bachelor's degree in a health profession discipline with a grade point average of 2.75 or above (4.0 scale) and not be currently enrolled in a graduate degree program at UWM.
2. The admission requirements of the health professional educational certificate for students enrolled in good standing in a UWM graduate health profession program are consistent with those requirements specified by the program.
3. Post-graduate students must have completed a graduate degree in a health profession or related discipline with a grade point average of 3.0 or above (4.0 scale).

## Credits and Courses

The completion of 15 credit hours (5 courses) is required for the certificate program.

Code	Title	Credits
<b>Core</b>		
AD LDSP 757	Principles and Foundations of Adult Education	3
NURS 731	Practicum and Seminar in Health Professional Education	3
<b>Curriculum/Program Planning &amp; Evaluation Courses</b>		
Select one of the following:		3
AD LDSP 667	Program Planning in Adult Education	
AD LDSP 607	Coordination of Staff Development and Training Program	
AD LDSP 647	Evaluation of Adult, Continuing, and Higher Education Programs	
NURS 752	Curriculum Development in Nursing Education	
<b>Teaching/Instructional Strategies</b>		
Select one of the following:		3
AD LDSP 687	Instructional Design and Teaching Strategies	

AD LDSP 707	Using Technology With Adult Learners	
AD LDSP 827	Seminar in Adult and Organizational Learning	
NURS 705	Instructional Strategies for Patient Education	
<b>Elective Courses</b>		
Select one additional course from the above or from the following:		3
AD LDSP 867	Seminar in Continuing Education in the Professions	
AD LDSP 787	Administration of Adult Education Programs	
AD LDSP 547	The Educational Dimensions of Practice with Older Adults	
NURS 764	Changing Health Behaviors	
CURRINS 774	College Teaching	
NURS 751	Teaching in Practice Disciplines	
<b>Total Credits</b>		<b>15</b>

A current listing of courses that meet these requirements can be obtained from the College of Health Professions and Sciences or the School of Nursing. Students will need to maintain a 3.0 GPA and meet all other requirements of the Graduate School for continuation in the program. The Practicum and Seminar in Health Professional Education is the last course taken in the certificate program.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Interprofessional Public and Population Health, Graduate Certificate (School of Rehabilitation Sciences and Technology)

The Interprofessional Public and Population Health Graduate Certificate is designed for students and working professionals involved in program planning and implementation, evaluation, education policy, health policy, engineering administration, research, and other areas related to public and population health. It recognizes that an interdisciplinary, systems approach is essential for communities to solve complicated social and economic problems. No one perspective or set of strategies can address the many dimensions of current societal problems. Prevention and population health are important cornerstones of the solutions to these problems, requiring linkages and new models of interaction among primary care, hospitals, communities and public health.

The Interprofessional Graduate Certificate is a 16-credit program with courses in four core disciplines: epidemiology, health policy, social and behavioral health, and environmental health. The fifth course grounds students in public health principles and practice. The sixth course will provide students the opportunity to engage in interprofessional workshops and other learning forums to foster competencies in interprofessional values, communication and teamwork. Three of the courses, in health behavior, epidemiology and health policy, are offered online, which will provide added flexibility for students.

This program is open to post-baccalaureate students, to those currently enrolled in a UWM graduate degree program, as well as to health professionals who have completed a baccalaureate, master's or doctoral degree. The certificate program is a collaborative program between the College of Health Professions and Sciences, School of Nursing, and the Zilber College of Public Health, and is coordinated through the Zilber College of Public Health with administrative support from the School of Nursing.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.

- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The completion of 16 credit hours is required for the certificate program. All students are required to complete six courses (all are 3 credits unless noted):

Code	Title	Credits
PH 700	Structures of Inequality and Population Health	3
PH 703	Environmental Health Sciences	3
NURS 728	Epidemiological Principles for Population Health	3
NURS 803	Health Policy	3
KIN 556	Multilevel Approaches to Changing Physical Activity and Eating Behaviors	3
or KIN 534	Physical Activity, Exercise and Health	
ATRAIN 703	Foundations of Interprofessional Practice	1
<b>Total Credits</b>		<b>16</b>

Students will need to maintain a 3.0 GPA and meet all other standard requirements for UWM graduate students for continuation in the program.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Occupational Science and Technology, BS

You've decided you enjoy working with persons with disabilities either through direct care or administrative service. Not quite sure which is the best career path? The Bachelor of Science in Occupational Science and Technology (OST) allows you the chance to pursue a variety of career options. A flexible educational path, combined with a blend of elective courses, and you'll be prepared to work in different health and human service settings.

You will also be particularly well prepared for further graduate study in Occupational Therapy and other disability related disciplines. Students in the OST Program with the designated pre-occupational therapy designation may apply to the UWM Masters in Occupational Therapy Program through the Early Admission Program. This is an advantage over students applying through the regular Occupational Therapy Comprehensive Application System (OTCAS).

Become part of a large interdisciplinary department with a strong focus on interprofessional education, research excellence and technology, especially around assistive and therapeutic technologies. The OST undergraduate degree program is housed in the School of Rehabilitation Sciences and Technology within the College of Health Professions and Sciences. Students in the OST Program may study in specialty areas in assistive technology, engineering, human factors, injury and performance, occupational therapy and therapeutic recreation. Learn from faculty who are among the strongest in the nation in terms of their leadership, professional credentials and research productivity.

For additional information, please contact Patricia Thomas (pthomas@uwm.edu), MPA, CTRS, OST Program Director or visit the OST Undergraduate Program (<https://uwm.edu/healthsciences/academics/bs-occupational-science-technology/>) website.

## Requirements

Code	Title	Credits
Foundation		35
Program Core		30
Track		21

Free Electives and GER	34-41
<b>Total Credits</b>	<b>120-127</b>

## Degree Requirements

The undergraduate degree in occupational science and technology offers a flexible path that allows students to pursue a variety of career options in different settings. The combination of foundation, core, track electives and free electives allows students to create an individualized program based on their interests and career objectives. The first few semesters are focused on building a foundation of knowledge. In the final semesters of the OST degree program, students focus primarily on the track and free electives courses. Students are automatically admitted to the major after completion of 57 credits. Within those 57 credits students must have a B- or better in: BIO SCI 202 or BIO SCI 203, OCCTHPY 151, OCCTHPY 201, PSYCH 101, and THERREC 202.

At the time of admission to the major, students must declare at least one track to complete as part of their program of study. Selection of a minor or certificate is encouraged to meet the program free elective requirements. To remain in the program, students must maintain a 2.75 cumulative GPA. The faculty and staff in the OST Program want the students to succeed. Students falling below the required 2.75 cumulative GPA are strongly encouraged to meet with the Program's Academic Advisor to develop an action plan for success. Ongoing communication with the Academic Advisor and Program Director are encouraged and a key to success in the program.

Students must achieve the following to complete an undergraduate degree in occupational science and technology:

- Satisfactory completion of 120 credits with a cumulative 2.75 GPA or better in all credits earned at UWM. Because a master's degree is required for professional practice in many health-related fields, such as occupational therapy, it is recommended that students maintain a GPA greater than 3.0 to be competitive with other Graduate School applicants;
- Satisfactory completion of the University General Education Requirements (p. 30); and
- Completion of the last 30 credits in residence at UWM.

Students are encouraged to meet with the Program's Academic Advisor at least once per semester throughout your undergraduate career to ensure that all requirements are being met.

## Course of Study

The program is divided into foundation, core, track and free elective courses. The undergraduate program requires 120 credits for graduation. All students admitted to the program must satisfy University-Wide General Education Requirements (GER) (p. 30), (except second-degree candidates who are exempt). English and mathematics competency requirements must also be met.

With 120 credits required to graduate with a bachelor's degree in Occupational Science and Technology, students need to take responsibility to complete all foundation and core courses, GER requirements, at least one program track, and sufficient free elective credits. A number of GER courses are part of the degree requirements. Recommended free electives and certificate/minor programs are listed to assist the student in creating an individualized area of study.

Requirements are subject to change as of the publication date of the catalog. Please check with the Office of Student Affairs for the most current information.

Code	Title	Credits
<b>University General Education Requirements</b>		
<i>Competency Requirements</i>		
Oral and Written Communication (OWC) Part A & B		
Quantitative Literacy (QL) Part A & B		
Foreign Language		
<i>Distribution Requirements</i>		
Arts		
Natural Sciences		
Social Sciences		
Cultural Diversity		
<b>Foundation</b>		
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II (GER NS)	4
COMMUN 103	Public Speaking	3
Select one of the following:		3
ENGLISH 205	Business Writing (OWC-B)	
ENGLISH 207	Health Science Writing (OWCB)	
HCA 249	Writing for Professional Development in Health Administration (OWCB)	
HCA 203 or NURS 203	Human Life Cycle (GER SS) Human Growth and Development Across the Life Span	3-4
KIN 270	Statistics in the Health Professions: Theory and Practice (QL-B)	3
CHPS 100 or NURS 103	New Student Seminar in Health Professions Freshman Seminar in Professional Nursing	1
OCCTHPY 151	Foundations of Scientific Inquiry for Occupational Science and Technology	3
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment) (GER NS)	5
PSYCH 101	Introduction to Psychology (GER SS)	3
PSYCH 412	Abnormal Psychology	3
<b>Program Core</b>		
OCCTHPY 201	Introduction to Occupational Science and Technology	3
OCCTHPY 220	Gizmos and Gadgets: Introduction to Assistive Technology	3
THERREC 202	Disability: Society and the Person (GER SS)	3
OCCTHPY 245 or THERREC 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective (GER CD and SS) Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
OCCTHPY 260	Enhancing Health Through Activity, Occupation and Technology I	3

OCCTHPY 320	Introduction to Ergonomics for Healthcare Professionals	3
OCCTHPY 340	Evidenced for Practice I: Applications of Biostatistics	3
OCCTHPY 341	Evidence for Practice II: Appraising Evidence	3
OCCTHPY 401	Overview of Medical Conditions	3
OCCTHPY 530	Contemporary Issues and Professional Preparation in OST	3

**Track**

Select at least one track	21
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**Free Electives and GER**

Select 34-41 credits (minimum of 9 cr at 400 level or higher). See below.	34-41
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<b>Total Credits</b>	<b>120-128</b>
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**Tracks**

**Pre-Occupational Therapy**

This track is predominantly aimed towards students that are interested in becoming an Occupational Therapist or other health and human service professionals. Students are encouraged to also add the Pre-Occupational Therapy designation to their program if following this track. The Program's Academic Advisor may assist with adding the designation.

Code	Title	Credits
<b>Courses</b>		
THERREC 202	Disability: Society and the Person (GER SS)	3
OCCTHPY 250	Concepts of Time and Occupation	3
THERREC 303	Inclusive and Disability Programs in the Community	3
OCCTHPY 315	Group Process in Rehabilitation	3
OCCTHPY 401	Overview of Medical Conditions	3
OCCTHPY 505 or OCCTHPY 420	Work and Disability Principles of Human Factors and Usability	3
OCCTHPY 625	Design and Disability	3
<b>Total Credits</b>		<b>21</b>

**Applications of Assistive Technology**

This track is aimed towards students who are interested in applying technology and/or designing environments and products that enhance the capabilities of persons living with and without a disability. This may include Occupational Therapy or other rehabilitation professions. Students are encouraged to also add the Pre-Occupational Therapy designation to their program if interested in pursuing Occupational Therapy. The Program's Academic Advisor may assist with adding the designation.

Code	Title	Credits
<b>Courses</b>		
OCCTHPY 220	Gizmos and Gadgets: Introduction to Assistive Technology	3
OCCTHPY 250	Concepts of Time and Occupation	3
OCCTHPY 420	Principles of Human Factors and Usability	3
OCCTHPY 521	Essentials of Assistive and Rehabilitation Technology	3

OCCTHPY 593	Introduction to Biomedical and Rehabilitation Instrumentation (U/G)	3
OCCTHPY 595	Vision I: Introduction to Low Vision & Visual Impairment	3
OCCTHPY 625	Design and Disability (U/G)	3
<b>Total Credits</b>		<b>21</b>

### Therapeutic Recreation

This track is aimed toward students who are interested in the area of Therapeutic Recreation (also called Recreation Therapy). Students may pursue employment as a Life Enrichment Coordinator/Director, Activity Therapist or Program Leader/Director in the areas of adapted sports or community recreation for individuals with disabilities. Recreational Therapist as a profession may be pursued with additional requirements.

Code	Title	Credits
<b>Courses</b>		
THERREC 103	Life Balance: An Understanding of Leisure	3
THERREC 203	Therapeutic Recreation Process	3
THERREC 300	Therapeutic Recreation Assessment and Documentation	3
THERREC 308	Therapeutic Recreation in Physical Rehabilitation and Behavioral Health	3
THERREC 309	Therapeutic Recreation in Pediatrics and Gerontology	3
THERREC 310	Facilitation Techniques in Therapeutic Recreation	3
THERREC 400	Issues and Trends in Therapeutic Recreation (TR)	3
<b>Total Credits</b>		<b>21</b>

### Human Factors, Injury and Performance

This track is targeted toward students interested in helping individuals (with and without disabilities) achieve peak occupational health and performance through the interaction of human factors and human function. This track is aimed at students who seek an entrepreneurial component to their educational learning experience, and provides a strong foundation for graduate study in rehabilitation professions. Students are encouraged to also add the Pre-Occupational Therapy or other pre-professional designation to their program if interested in pursuing graduate rehabilitation studies. The Program's Academic Advisor may assist with adding such designations.

Code	Title	Credits
<b>Courses</b>		
OCCTHPY 250	Concepts of Time and Occupation	3
OCCTHPY 320	Introduction to Ergonomics for Healthcare Professionals	3
Select one of the following:		
BMS 232	Introduction to Nutrition	
NUTR 235	Introduction to Nutrition for the Health Professions	
KIN 230	Health Aspects of Exercise and Nutrition	
or NUTR 230	Health Aspects of Exercise and Nutrition	
OCCTHPY 420	Principles of Human Factors and Usability	3

OCCTHPY 522	Health, Performance, & Injury Monitoring in Organizations	3
OCCTHPY 592	Innovative Solutions in Human Factors and Performance	3
PRPP 553	Psychological Considerations for Optimizing Health & Performance	3
<b>Total Credits</b>		<b>21</b>

### Recommended Minors/Certificates

(not inclusive)

#### College of Health Professions and Sciences

Code	Title	Credits
<b>Certificate in the Study of Complementary &amp; Integrative Health Approaches</b>		
<b>Minor in Health Care Administration</b>		

#### Zilber College of Public Health

Code	Title	Credits
<b>Minor in Kinesiology</b>		
<b>Minor in Nutritional Sciences</b>		

#### College of Letters and Science

Code	Title	Credits
<b>Certificate in Childhood and Adolescence Studies</b>		
<b>Certificate in Global Health</b>		
<b>Certificate in Spanish for Health Professionals</b>		
<b>Minor in Anthropology</b>		
<b>Minor in Communication</b>		
<b>Minor in Psychology</b>		
<b>Minor in Sociology</b>		

#### Lubar College of Business

Code	Title	Credits
<b>Minor in Business</b>		

#### School of Education

Code	Title	Credits
<b>Autism Spectrum Disorders</b>		
<b>Community Engagement</b>		

### Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

### College of Health Professions and Sciences Dean's Honor List

GPA of 3.500 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

### Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.



## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Contact Information

Patricia Thomas, Program Director

## Occupational Therapy, MS

### Related Certificates

- Certificate in Assistive Technology and Accessible Design (p. 786)
- Certificate in Trauma-Informed Care (p. 816)
- Graduate Certificate in Applied Gerontology (p. 541)

The School of Rehabilitation Sciences & Technology offers a Master of Science in Occupational Therapy (MSOT) Degree. The MSOT Degree Program prepares students to become scholarly, client-centered practitioners, educators, and scientists who will be able to enrich the health, well-being, quality of life and occupational participation of the people, communities, and populations they will serve after graduating. MSOT students engage in graduate-level instruction with a strong focus in theory, evidence-based research, interprofessional education, technology, community engagement, leadership, and clinical underpinnings. During their time in the program, students take required and elective courses. Students can use elective courses to help them complete graduate certificates alongside their MSOT Degree.

Graduates of the program are eligible to take the occupational therapist certification examination offered by the National Board for Certification in Occupational Therapy. The Master of Science in Occupational Therapy Degree Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) (<http://www.acoteonline.org/>) of the American Occupational Therapy Association (AOTA), located at 6116 Executive Boulevard, Suite 200, North Bethesda, MD 20852-4929. ACOTE's telephone number c/o AOTA is (301) 652-6611.

All students admitted to the MS in Occupational Therapy degree program will be required to complete a Background Information Disclosure form (HFS64). A background check, which identifies a past criminal record, does not necessarily preclude an individual from pursuing studies in occupational therapy or becoming a successful practitioner. Should there be a discrepancy between the information reported by the student on HFS-64 and the reports issued by the Department of Justice and the Department of Health and Family Services, the student will be subject to dismissal from the occupational therapy program and reported to DHFS per HFS 12.20 (1)(c), Wis. Adm. Code.

Graduates of the master's program will be eligible to sit for the National Certification Examination for the Occupational Therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an

Occupational Therapist, Registered (OTR). In addition, most states require licensure to practice; however state licenses are usually based on the results of the NBCOT Certification Examination. Candidates for the NBCOT Certification Examination will be asked to answer questions related to the topic of felonies when applying for the exam. For further information on these limitations and other certification requirements, visit the NBCOT website at [www.nbcot.org](http://www.nbcot.org) (<http://www.nbcot.org>), email [info@nbcot.org](mailto:info@nbcot.org), call 301-990-7979, or send mail requests to NBCOT 1 Bank Street, Suite 300 Gaithersburg, MD 20878. A felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.

For more information, please contact us at [ot-program@uwm.edu](mailto:ot-program@uwm.edu).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

Applications for the MS OT are handled annually using the OT Centralized Application Service (OTCAS) (<https://otcas.liaisoncas.com/applicant-ux/#/login>). OTCAS provides a full-service, web-based application and admissions process for prospective occupational therapy program applicants.

Following are important timelines for the OTCAS application cycle (see OTCAS for specific dates).

- **Mid July:** OTCAS applications cycle opens (see OTCAS for specific dates).
- **Mid January** (December 1 if international): Deadline for submission of all application material to OTCAS (see OTCAS for specific dates).

Once recommended for acceptance to UWM's MS in Occupational Therapy Program, students need to apply to and be accepted by UWM's Graduate School. However, students may apply to UWM's Graduate School at any time prior to being recommended for acceptance to the OT Program.

### Current UWM Pre-OT Students

Applications for the MS OT are handled annually using the internal Panthera application system.

Following are important timelines for the Panthera application cycle.

- **November 30:** Deadline for submission of all application material to Panthera.

### Admission

The MS in Occupational Therapy Program admits students on the basis of a holistic, competitive application process. Students are accepted into the program once per year in Spring and begin professional coursework in the following Fall.

In addition to Graduate School requirements (<http://uwm.edu/graduateschool/admission/>), applicants must meet these departmental requirements to be considered for admission to the program.

1. An undergraduate degree completed by the end of the Spring semester of the year prior to beginning the OT Program, from an accredited institution, with an overall cumulative grade point average (GPA) of a 3.0 (on a 4.0 scale).
2. Six prerequisite courses, required to be completed by end of Fall semester of the year prior to beginning the OT Program, with a minimum grade point average of 3.0 (on a 4.0 scale):

Code	Title	Credits
	Human Anatomy <sup>1</sup>	3-4
	Human Physiology <sup>1</sup>	3-4
	Human Development	3
	Introduction to Psychology	3
	Statistics	3
	Select one of the following natural science courses:	3-5
	Physics <sup>2</sup>	
	Biology <sup>2</sup>	
	Chemistry <sup>2</sup>	
	Psychology <sup>2</sup>	

<sup>1</sup>Courses requiring a lab component.

<sup>2</sup>Courses with laboratory-based data analysis required.

3. Completed OTCAS application. (UWM Pre-OT Students should complete the Panthera application.)
4. Three letters of recommendation: One letter must be from an academic source and one from a clinical/health-related source. The third letter can be either from an academic or clinical/health-related source. All three letters must use the OTCAS form.
5. Reasons Statement or Personal Essay: This is the same as the OTCAS essay. Address why you selected occupational therapy as a career and how an occupational therapy degree relates to your immediate and long-term professional goals.
6. Additional Question: Answer why the Occupational Therapy Program in the School of Rehabilitation Sciences & Technology at the University of Wisconsin-Milwaukee is a good fit for you. Limit 250 words.

For all admission and application related questions, please contact OT-program@uwm.edu.

## Credits and Courses

The program is a tracked curriculum of 75 credits over 28 months, including a minimum of 24 weeks of full-time fieldwork during the program. OCCTHPY 810 serves as the capstone requirement for the degree. Students will enroll as full time students for each term of study (Summer, Fall, Spring). There is no part-time option for students in the MS in OT program. Students must maintain a GPA of 3.0 and a grade of B- or better in all required courses. Students who do not maintain this will be placed on probation.

## Transcript-Designated Concentrations

Through judicious use of electives, students may also choose one of two transcript-designated concentrations. This may require completion of more than the minimum 75 credits.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned faculty advisors in the MS in OT program upon acceptance into the program.

### Time Limit

The student must complete all degree requirements within four years of initial enrollment.

## Occupational Therapy, MS: Assistive Technology and Accessible Design

The Concentration in Assistive Technology and Accessible Design is an interdisciplinary program designed to meet the demand for assistive technology and accessible design specialists. The College of Health Science's Departments of Rehabilitation Sciences and Technology and Communication Sciences Disorders, along with the School of Education's Department of Teaching and Learning, collaborate on the course offerings. The concentration emphasizes technologies for disability.

## Related Certificates

- Certificate in Assistive Technology and Accessible Design (p. 786)
- Certificate in Trauma-Informed Care (p. 816)
- Graduate Certificate in Applied Gerontology (p. 541)

The School of Rehabilitation Sciences & Technology offers a Master of Science in Occupational Therapy (MSOT) Degree. The MSOT Degree Program prepares students to become scholarly, client-centered practitioners, educators, and scientists who will be able to enrich the health, well-being, quality of life and occupational participation of the people, communities, and populations they will serve after graduating. MSOT students engage in graduate-level instruction with a strong focus in theory, evidence-based research, interprofessional education, technology, community engagement, leadership, and clinical underpinnings. During their time in the program, students take required and elective courses. Students can use elective courses to help them complete graduate certificates alongside their MSOT Degree.

Graduates of the program are eligible to take the occupational therapist certification examination offered by the National Board for Certification in Occupational Therapy. The Master of Science in Occupational Therapy Degree Program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) (<http://www.acoteonline.org/>) of the American Occupational Therapy Association (AOTA), located at 6116 Executive Boulevard, Suite 200, North Bethesda, MD 20852-4929. ACOTE's telephone number c/o AOTA is (301) 652-6611.

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For more information, please contact us at [ot-program@uwm.edu](mailto:ot-program@uwm.edu).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

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### Current UWM Pre-OT Students

Applications for the MS OT are handled annually using the internal Panthera application system.

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### Admission

The MS in Occupational Therapy Program admits students on the basis of a holistic, competitive application process. Students are accepted into the program once per year in Spring and begin professional coursework in the following Fall.

In addition to Graduate School requirements (<http://uwm.edu/graduateschool/admission/>), applicants must meet these departmental requirements to be considered for admission to the program.

1. An undergraduate degree completed by the end of the Spring semester of the year prior to beginning the OT Program, from an accredited institution, with an overall cumulative grade point average (GPA) of a 3.0 (on a 4.0 scale).
2. Six prerequisite courses, required to be completed by end of Fall semester of the year prior to beginning the OT Program, with a minimum grade point average of 3.0 (on a 4.0 scale):

Code	Title	Credits
	Human Anatomy <sup>1</sup>	3-4
	Human Physiology <sup>1</sup>	3-4
	Human Development	3
	Introduction to Psychology	3
	Statistics	3
	Select one of the following natural science courses:	3-5
	Physics <sup>2</sup>	
	Biology <sup>2</sup>	
	Chemistry <sup>2</sup>	
	Psychology <sup>2</sup>	

<sup>1</sup>Courses requiring a lab component.

<sup>2</sup>Courses with laboratory-based data analysis required.

3. Completed OTCAS application. (UWM Pre-OT Students should complete the Panthera application.)
4. Three letters of recommendation: One letter must be from an academic source and one from a clinical/health-related source. The third letter can be either from an academic or clinical/health-related source. All three letters must use the OTCAS form.
5. Reasons Statement or Personal Essay: This is the same as the OTCAS essay. Address why you selected occupational therapy as a career and how an occupational therapy degree relates to your immediate and long-term professional goals.
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## Credits and Courses

The program is a tracked curriculum of 75 credits over 28 months, including a minimum of 24 weeks of full-time fieldwork during the program. OCCTHPY 810 serves as the capstone requirement for the degree. Students will enroll as full time students for each term of study (Summer, Fall, Spring). There is no part-time option for students in the MS in OT program. Students must maintain a GPA of 3.0 and a grade of B- or better in all required courses. Students who do not maintain this will be placed on probation.

### Transcript-Designated Concentrations

Through judicious use of electives, students may also choose one of two transcript-designated concentrations. This may require completion of more than the minimum 75 credits.

**Assistive Technology and Accessible Design**

Code	Title	Credits
<b>Required</b>		
OCCTHPY 593	Introduction to Biomedical and Rehabilitation Instrumentation	3
OCCTHPY 620	Introduction to Assistive and Rehabilitation Technology	3
OCCTHPY 625	Design and Disability	3
<b>Electives</b>		
Select a minimum of 6 credits from the following: 6		
OCCTHPY 595	Vision I: Introduction to Low Vision & Visual Impairment	
OCCTHPY 596	Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention	
OCCTHPY 760	Assistive and Rehabilitation Technology	
OCCTHPY 770	Assessment in Assistive Technology and Accessible Design	
OCCTHPY 777	Fieldwork in Assistive Technology	
OCCTHPY 999	Advanced Independent Study	
COMSDIS 717	Special Populations in Communication Disorders	
IND ENG 580	Ergonomics	
<b>Capstone</b>		
OCCTHPY 810	Critical Evaluation of Theory, Research and Practice	2
<b>Total Credits</b>		<b>17</b>

**Additional Requirements****Major Professor as Advisor**

The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned faculty advisors in the MS in OT program upon acceptance into the program.

**Time Limit**

The student must complete all degree requirements within four years of initial enrollment.

**Occupational Therapy, MS: Ergonomics**

**Note:** The concentration in ergonomics is being revised; admission to the program is temporarily suspended.

This concentration provides the skills and experience needed to practice ergonomics in work environments. Students learn theoretical concepts of occupational biomechanics, physiology, psychophysics, and human factors as well as numerous job analysis techniques. Students are taught how to synthesize and apply these theories and tools to reduce injuries, improve productivity and increase quality of service/goods in industry. Emphasis is placed on practical applications and solutions.

**Related Certificates**

- Certificate in Assistive Technology and Accessible Design (p. 786)
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The School of Rehabilitation Sciences & Technology offers a Master of Science in Occupational Therapy (MSOT) Degree. The MSOT Degree Program prepares students to become scholarly, client-centered practitioners, educators, and scientists who will be able to enrich the health, well-being, quality of life and occupational participation of the people, communities, and populations they will serve after graduating. MSOT students engage in graduate-level instruction with a strong focus in theory, evidence-based research, interprofessional education, technology, community engagement, leadership, and clinical underpinnings. During their time in the program, students take required and elective courses. Students can use elective courses to help them complete graduate certificates alongside their MSOT Degree.

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**Admission Requirements****Application Deadlines**

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1. An undergraduate degree completed by the end of the Spring semester of the year prior to beginning the OT Program, from an accredited institution, with an overall cumulative grade point average (GPA) of a 3.0 (on a 4.0 scale).
2. Six prerequisite courses, required to be completed by end of Fall semester of the year prior to beginning the OT Program, with a minimum grade point average of 3.0 (on a 4.0 scale):

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	Human Anatomy <sup>1</sup>	3-4
	Human Physiology <sup>1</sup>	3-4
	Human Development	3
	Introduction to Psychology	3
	Statistics	3
	Select one of the following natural science courses:	3-5
	Physics <sup>2</sup>	
	Biology <sup>2</sup>	
	Chemistry <sup>2</sup>	
	Psychology <sup>2</sup>	

<sup>1</sup>Courses requiring a lab component.

<sup>2</sup>Courses with laboratory-based data analysis required.

3. Completed OTCAS application. (UWM Pre-OT Students should complete the Panthera application.)
4. Three letters of recommendation: One letter must be from an academic source and one from a clinical/health-related source. The third letter can be either from an academic or clinical/health-related source. All three letters must use the OTCAS form.
5. Reasons Statement or Personal Essay: This is the same as the OTCAS essay. Address why you selected occupational therapy as a career and how an occupational therapy degree relates to your immediate and long-term professional goals.
6. Additional Question: Answer why the Occupational Therapy Program in the School of Rehabilitation Sciences & Technology at the University of Wisconsin-Milwaukee is a good fit for you. Limit 250 words.

For all admission and application related questions, please contact OT-program@uwm.edu.

## Credits and Courses

The program is a tracked curriculum of 75 credits over 28 months, including a minimum of 24 weeks of full-time fieldwork during the program. OCCTHPY 810 serves as the capstone requirement for the degree. Students will enroll as full time students for each term of study (Summer, Fall, Spring). There is no part-time option for students in the MS in OT program. Students must maintain a GPA of 3.0 and a grade of B- or better in all required courses. Students who do not maintain this will be placed on probation.

### Transcript-Designated Concentrations

Through judicious use of electives, students may also choose one of two transcript-designated concentrations. This may require completion of more than the minimum 75 credits.

#### Ergonomics

Code	Title	Credits
<b>Required</b>		
IND ENG 580	Ergonomics	3
IND ENG 780	Advanced Ergonomics - Low Back Pain	3
IND ENG 783	Advanced Ergonomics - Upper Extremity	3
<b>Electives</b>		
Select a minimum of 6 credits from the following:		6
IND ENG 470	Methods Engineering	
OCCTHPY 625	Design and Disability	
OCCTHPY 788	Legal Issues and Regulatory Agencies in Ergonomics	
OCCTHPY 790	Design Project	
<b>Capstone</b>		
OCCTHPY 810	Critical Evaluation of Theory, Research and Practice	2

**Total Credits** 17

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned faculty advisors in the MS in OT program upon acceptance into the program.

### Time Limit

The student must complete all degree requirements within four years of initial enrollment.

## Occupational Therapy, OTD

The Post-Professional Doctor of Occupational Therapy (PPOTD) prepares licensed clinicians to become experts in an identified specialization area and will prepare them to become clinical leaders, translating new findings and evidence into practice. In this post-professional program, students will develop and demonstrate more advanced knowledge and skills, beyond those learned at the master's level, in an occupational therapy concentration area.

UWM's PPOTD Program welcomes licensed clinicians who have completed an ACOTE-accredited MSOT or MOT degree program (or WFOT equivalent). See "Requirements" for additional applicant eligibility information.

For more information, please contact us (ot-program@uwm.edu).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Primary entry requirements are:

1. MSOT or MOT degree from an ACOTE-accredited program (or equivalent recognized by the World Federation of Occupational Therapists, WFOT).
2. Occupational therapy licensure (or international equivalent approved by WFOT). Current master's students may apply but cannot formally matriculate to the OTD program until they are licensed. Students may be provisionally admitted to the OTD program and accumulate credits toward graduation for one semester while required documentation is being prepared or approved.
3. The competitive admissions process also includes evaluation of the GPA, coursework, and professional experiences, as well as a statement of personal interests.

Practicing occupational therapists with a bachelor's degree may be admitted on a case-by-case basis. Those who are accepted to the OTD Program will be expected to complete deficiency credits that ensure that their educational background is comparable to practitioners with a master's degree, and will complete a minimum of 54 credits of graduate-level coursework at UWM.

## Credits and Courses

The OTD program requires 33 credits, including 9 credits of required occupational therapy core courses beyond the level of the MS degree and 15 credits of electives in a concentration area chosen by students and their advisors. Students who need additional background preparation may need additional credits.

Code	Title	Credits
<b>Core</b>		<b>9</b>
NURS 810	Leadership for Advanced Practice in Healthcare	
OCCTHPY 701	Advanced Measurement and Instrumentation in Health Care	
	Evidence Based Practice for Individuals & Populations <sup>1</sup>	
<b>Area of Concentration</b>		<b>15</b>
Complete a minimum of 15 credits in an area of concentration		
<b>Doctoral Project and Experiential Components <sup>1</sup></b>		<b>9</b>
<b>Total Credits</b>		<b>33</b>

<sup>1</sup> Student should meet with their faculty advisor to enroll in a specific course or courses. Curricular requests are currently in process for permanent course numbers and are expected to be approved in academic year 2019-2020.

### Area of Concentration (minimum of 15 credits)

Students work with faculty advisors to develop a statement of their proposed concentration area, their needed and desired knowledge and courses, a mentoring team, possible doctoral experience sites, and a doctoral project. Examples of potential doctoral concentrations are below.

#### Assistive Technology and Assessable Design

Code	Title	Credits
EXCEDUC 765	Assistive Technology Service Delivery in Schools	
OCCTHPY 724	Advanced Design and Disability	
OCCTHPY 760	Assistive and Rehabilitation Technology	
OCCTHPY 770	Assessment in Assistive Technology and Accessible Design	
OCCTHPY 777	Fieldwork in Assistive Technology	

#### Community and Behavioral Health

Code	Title	Credits
PH 702	Introduction to Biostatistics	
PH 706	Perspectives on Community & Behavioral Health	
PH 725	Theories and Models of Health Behavior	
PH 726	Community Health Assessment	
PH 728	Program Evaluation in Public Health	

### The Doctoral Experience and the Doctoral Project (minimum of 9 credits)

Students must deliver and show competence in an evidence-based or evidence-informed population-based intervention that is still individualized. Ideally, the doctoral experience will also inform the student's doctoral project. The doctoral experience may occur in one

16-week period, or it may be spread out over a greater period, if the 640-hour criterion is met. Like the MS thesis and PhD dissertations, the culminating 6-credit hour doctoral project must be written, publicly presented and defended. Up to 3 credits may be transferred, on a case-by-case basis, for UW-Milwaukee MSOT graduates whose master's thesis or project will be used as the foundation of their OTD project.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that each student have a major professor to advise, supervise, and approve the program of study. Students are assigned faculty advisors in the OTD program upon acceptance into the program.

### Time Limit

The OTD curriculum is designed to be completed in four semesters. Some students may require two or three years of combination full- and part-time coursework, especially if they choose to work part time, take additional courses, or want to invest more time to complete their project.

Incoming OTD students with advanced applicable coursework and experience may transfer graduate credits or place out of up to 6 credits that directly relate to their proposed Program of Study. UWM MSOT students may transfer up to 3 of their master's thesis or project credits and apply those to their OTD project credits requirement. Combined, these transfers could reduce the total credits required to 24 and would likely accelerate time to completion for some students.

Because circumstances beyond a student's control may prevent completion of requirements according to this timeline, students will be granted a maximum of ten years to complete the degree.

### Contact Information

**Kris A. Barnekow, PhD, OTR/L, Associate Professor**

## Physical Therapy, DPT

The Doctor of Physical Therapy (DPT) is the classroom based and clinical education that prepares graduates for entry into the practice of physical therapy. The goal of this entry-level professional education program is to graduate students who are knowledgeable, service-oriented, and reflective practitioners who are able to render independent judgements in people with movement system dysfunction that limits activity and participation. Find out why you should choose UWM to start your career in physical therapy.

The program begins in early June and includes classroom, laboratory, research and clinical learning experiences. Admission to the DPT program is competitive. The faculty values a well-rounded applicant who has demonstrated both academic and personal/professional potential.

For more information, contact Lori Woodburn, DPT Program Assistant, at [pt-program@uwm.edu](mailto:pt-program@uwm.edu) or 414-251-5797.

The Doctor of Physical Therapy Program is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 1111 North Fairfax Street, Alexandria, Virginia 22314; telephone: 703-706-3245; e-mail: [accreditation@apta.org](mailto:accreditation@apta.org); website: [www.capteonline.org](http://www.capteonline.org).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Admission to the program is highly competitive. A snapshot of the typical successful applicant is available on the program website's Frequently Asked Questions (<https://uwm.edu/rehabilitation-sciences-technology/academics/dr-physical-therapy/faqs/>) section. The DPT program enrolls students through the Physical Therapy Centralized Application Service (PTCAS) (<http://www.ptcas.org/>). Policies and procedures related to consideration of the candidate are published on the PTCAS website and updated annually. Students apply to the UWM Graduate School after being recommended for Admission by the DPT program. Undergraduate degree and prerequisite coursework must be completed by the time the student enrolls in the DPT Program.

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program requirements to be considered for admission to the program:

1. Completion of an undergraduate degree from an accredited institution with an overall cumulative grade point average (GPA) of a 3.0 (on a 4.0 scale).
2. Completion of 9 prerequisite courses with a minimum prerequisite grade point average of 3.0 (on a 4.0 scale).

Code	Title	Credits
	General Biology I	4
	Human Anatomy or Anatomy & Physiology I <sup>1</sup>	4
	Human Physiology or Anatomy & Physiology II <sup>1</sup>	4
	Chemistry I <sup>1</sup>	4
	Chemistry II <sup>1</sup>	4
	Physics I <sup>1</sup>	4
	Physics II <sup>1</sup>	4
	Psychology	3
	Statistics	3

<sup>1</sup>Courses requiring a lab component.

3. Submission of scores on the General Test of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) taken within the last five years.
4. Two letters of recommendation, one of which must be an academic reference.
5. Responses to narrative essay questions.

### Selection

Admission to the program is competitive. The program enrolls 36 students annually. Students are selected based on GPA, GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores, two letters of recommendation (one academic reference, one personal reference), and narratives. The program will give preference during the selection process to candidates with prerequisite requirements completed at the time of application to the program.

## Credits and Courses

The program is a sequenced, competency-based curriculum of 106 credits including 24 weeks of internship in the final year of the program. Students will enroll as full-time students for each term of study (Summer, Fall, Spring) including Winterim in both of the first two years in the program. There is no part-time option for students, nor can courses be taken out of sequence in the DPT program.

Code	Title	Credits
PRPP 553G	Psychological Considerations for Optimizing Health & Performance	3
PT 700	Introduction to Physical Therapy Practice and Examination Techniques	3
PT 701	Clinical Foundations of the Physical Therapy Examination	5
PT 702	Scientific Principles of Interventions	5
PT 704	Physical Agents	2
PT 707		2
PT 709	Research Practicum <sup>1</sup>	2
PT 711	Health Promotion/Wellness for Physical Therapy Practice	2
PT 716	Clinical Radiology	1
PT 720	Human Gross Anatomy	6
PT 721	Medical Physiology	3
PT 722	Medical Physiology II	3
PT 723	Physiological Regulation in Exertion & Disease	3
PT 731	Professional Development 1	1
PT 732	Professional Development 2	2
PT 733	Professional Development 3	2
PT 734	Professional Development 4	1
PT 735	Advanced Clinical Reasoning	4
PT 740	Kinesiology & Biomechanics of Normal & Abnormal Movement	4
PT 750	Functional Neuroanatomy	3
PT 751	Motor Behavior	3
PT 820	Cardiopulmonary Evaluation & Treatment	3
PT 821	Integument System	2
PT 844		4
PT 845		4
PT 850	Neuromuscular: Adult	4
PT 852	Neuromuscular: Pediatric	4
PT 881	Fieldwork II: Basic Skills Experience	2
PT 980	PT Clinical Internship I	8
PT 981	PT Clinical Internship II	8
<b>Total Credits</b>		<b>101</b>

<sup>1</sup> PT 709 should be taken twice, for a total of 4 credits.

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that each student have a major professor to advise, supervise and approve the program of study. Students are

assigned faculty advisors in the DPT program. Faculty advisors are core members of the DPT program faculty who are also licensed.

## Pre-Athletic Training

Athletic trainers are health care professionals who provide physically active people services such as injury/illness prevention, emergency care, clinical diagnosis, therapeutic intervention, and rehabilitation of injuries and medical conditions. Athletic trainers care for people across the lifespan and activity levels, including youth athletes, professional athletes, performing artists, military or civil service personnel, and workers in physically demanding jobs. To become an athletic trainer students must complete a graduate degree in Athletic Training in a program accredited by the Commission on Accreditation of Athletic Training Education (<https://caate.net/>) (CAATE).

Undergraduate students can follow one of two paths to pursue Athletic Training at UWM:

### Traditional Path

Students can complete an undergraduate degree and the prerequisite coursework for admission to the MS Athletic Training program (<https://uwm.edu/rehabilitation-sciences-technology/academics/ms-athletic-training/>). An undergraduate degree in Kinesiology (<https://uwm.edu/publichealth/academics/bs-kinesiology/>), the science of human movement, is ideal preparation for training in athletic training. UWM Kinesiology students take coursework in biomechanics, exercise physiology, motor behavior and control, and psychosocial aspects of human movement, which serve as important foundations for advanced training in the UWM MSAT program. Students also can explore the practical application of the scientific principles of human movement in correlate and elective coursework.

The UWM Master of Science in Athletic Training (<https://uwm.edu/rehabilitation-sciences-technology/academics/ms-athletic-training/>) (MSAT) is a graduate level professional program that prepares students to become credentialed Athletic Trainers. The MSAT program regularly hosts information sessions for undergraduate students. Students can learn more about the prerequisites for admission to the UWM MSAT program in this site: MSAT application and admissions procedure (<https://uwm.edu/rehabilitation-sciences-technology/academics/ms-athletic-training/>).

### Accelerated Path

Students interested in a more direct path may apply to the Accelerated BS Kinesiology / MS Athletic Training program (<https://uwm.edu/rehabilitation-sciences-technology/academics/accelerated-kinesiology-athletic-training/>) and complete their Bachelor's and Master's degree in 5 years. This program is for high performing students and entails completing 3 years as a Kinesiology undergraduate student and the moving into the MSAT program as a graduate student. At the end of the 4th year (the first in the MSAT program), the BS Kinesiology degree is conferred. Upon successful completion of years 4 and 5, students earn the MS in Athletic Training.

For additional information on either path towards Athletic Training, you may contact either of the program directors:

Christy Greenleaf, PhD ([cgreenl@uwm.edu](mailto:cgreenl@uwm.edu))

Professor, BS Kinesiology Program Director



Jennifer Earl-Boehm, PhD, ATC, FNATA (jearl@uwm.edu)

Associate Professor, MS Athletic Training Program Director

## Freshman Admission

### Traditional Path

Students are accepted to the College of Health Sciences BS Kinesiology degree program (<https://uwm.edu/healthsciences/academics/bs-kinesiology/>) as "Kinesiology Intended" and should select the designation "Pre-Athletic Training" when completing your application. Students must complete the admission to major requirements.

### Accelerated Path

Students are accepted to the College of Health Sciences as "Accelerated BS Kinesiology/MS Athletic Training (<https://uwm.edu/healthsciences/academics/accelerated-kinesiology-athletic-training/>) Intended" and should select the designation "Pre-Athletic Training" when completing your application. Students must complete the admission to major requirements.

Regardless of which path is chosen, students should regularly meet with their academic advisor to create a plan of study that will include all of the prerequisite courses needed for the athletic training graduate program. Students should maintain a cumulative GPA of 3.0 or higher to be competitive for admission to the MSAT through either the Traditional or Accelerated path.

## I'm a new student. How do I start?

You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) (<https://uwm.edu/studentorientation/>) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation "Pre-Athletic Training" added to your academic record.

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## Who is my advisor?

Undergraduate students who have declared an intent to pursue Pre-Athletic Training or the accelerated BS Kinesiology/MS Athletic Training are advised by Torry Rufer. Contact Torry at 414-229-2758 or [tjruferr@uwm.edu](mailto:tjruferr@uwm.edu).

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## When should I meet with my advisor?

Students are encouraged to meet with their advisor at least once per semester to ensure timely progress to graduation.

- **Enrolling for spring semester?**  
Schedule an appointment with your advisor in October or November.
- **Enrolling for fall semester?**  
Schedule an appointment with your advisor in March or April.

Students are also welcome to schedule an appointment with their advisor at any time to discuss academic challenges, career opportunities, or any other questions.

## How can my advisor help me?

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- Explore your academic and career interests
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- Identify opportunities for campus involvement
- Connect you to campus resources
- Plan for graduation

## Contact Information

Pavilion , Suite 350

## Pre-Audiology

Audiologists help people of all ages with hearing and balance disorders. When a person has problems with hearing or balance it can have a significant impact on their quality of life. Audiologists do many things including:

- Screening people to identify possible hearing disorders.
- Completing comprehensive hearing testing to diagnose hearing loss.
- Selecting and custom-fitting hearing aids and assistive technology.
- Advising people about how to treat and cope with ringing in their ears, also known as *tinnitus*.
- Evaluating and treating dizziness and balance problems.
- Helping people protect their hearing from the effects of loud noise.

Audiologists can work in many settings including doctor's offices, hospitals, schools, rehabilitation centers, and private practices.

A career in audiology requires a doctoral degree (AuD or Doctor of Audiology) from a program accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association. (<https://www.asha.org/eweb/ashadynamicpage.aspx?site=ashacms&webcode=caalisting&caacat=all>)

In Wisconsin, an AuD consortial program is offered by UW-Madison and UW-Stevens Point.

Before applying to graduate school, most programs require students to have either a bachelor's degree in Communication Sciences and Disorders OR to complete prerequisite coursework in Communication Sciences and Disorders before applying. See the requirements tab (p. 809) for details.

For additional information please contact:

Barbara Pauloski, ([pauloski@uwm.edu](mailto:pauloski@uwm.edu)) Ph.D., CCC-SLP Associate Professor

Undergraduate Program Coordinator in Communication Sciences and Disorders

## Requirements

If you are interested in becoming an audiologist, it is strongly recommended that you complete a bachelor's degree in Communication

Sciences and Disorders (<https://uwm.edu/rehabilitation-sciences-technology/academics/bs-communication-sciences-disorders/>).

If you do not major in Communication Sciences and Disorders as an undergraduate, it is important to know what the requirements are for any graduate program you are considering. Many AuD programs accept students with degrees other than Communication Sciences and Disorders; however, it will usually require an additional year of graduate study to complete the program.

## I'm a new student. How do I start?

You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) (<https://uwm.edu/studentorientation/>) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation "Pre-Audiology" added to your academic record.

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## Who is my advisor?

Undergraduate students who have declared an intent to pursue Pre-Audiology are advised by MacKenzie Kougl. Contact MacKenzie at 414-229-2758 or via e-mail at [m.witowski@uwm.edu](mailto:m.witowski@uwm.edu) ([mlkoug@uwm.edu](mailto:mlkoug@uwm.edu)).

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## When should I meet with my advisor?

Students are encouraged to meet with their advisor at least once per semester to ensure timely progress to graduation.

- **Enrolling for spring semester?**  
Schedule an appointment with your advisor in October or November.
- **Enrolling for fall semester?**  
Schedule an appointment with your advisor in March or April.

Students are also welcome to schedule an appointment with their advisor at any time to discuss academic challenges, career opportunities, or any other questions.

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## How can my advisor help me?

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- Connect you to campus resources
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## Pre-Occupational Therapy

According to The American Occupational Therapy Associations (AOTA) (<https://www.aota.org/>), occupational therapy helps people with an injury, illness, or disability learn or re-learn to do everyday activities. For adults, this could include activities like getting dressed, cooking, and

driving. For children, this could include activities like learning or playing. Occupational Therapy got its name from its focus on helping patients with everyday activities—or "occupations".

AOTA requires students pursuing a career in occupational therapy to enter the profession with a post-baccalaureate degree. The Occupational Therapy (OT) profession has a dual entry education program. Students interested in the profession may complete a master's or doctorate level program. UWM offers a master's in OT (MSOT (<https://uwm.edu/rehabilitation-sciences-technology/academics/ms-occupational-therapy/>)). Successful completion of an undergraduate degree is required for entry into a graduate program. Students may complete any undergraduate degree in preparation for a graduate level OT Program as long as all prerequisite courses and other requirements are met.

The UWM bachelors degree in Occupational Science and Technology (OST) (<https://uwm.edu/rehabilitation-sciences-technology/academics/bs-occupational-science-technology/>) prepares student exceptionally well for the UWM and other graduate level OT Programs. The **foundation courses** of the degree include the human anatomy, human physiology, psychology, statistics, and natural science with a lab courses that are common prerequisites for graduate OT Programs. The **core courses** of the OST degree allows students to delve into content in the areas of disability, assistive technology, health, medical conditions, and other contemporary issues in the area of health and disability. Within the curriculum, there is also a sequence of four research courses, which helps students gain knowledge and skills required for graduate level research.

The OST degree has four **tracks** to allow **focused study**: Applications of Assistive Technology, Disability and Occupation, Human Factors, Injury and Performance and Therapeutic Recreation. **All tracks** help students to work in the area of disability. The Disability and Occupation track and the Applications of Assistive Technology track are ideal for students interested in OT graduate education.

Paid and unpaid experience working with individuals with a disability, shadow experiences with OTs in different settings, and a strong personal statement are also often requirements for application to different graduate OT Programs. It is important to work with the Pre-Occupational Therapy (Pre-OT) advisor MacKenzie Kougl MS ([mlkoug@uwm.edu](mailto:mlkoug@uwm.edu)) beginning in freshman year or upon entry to the OST Degree (or other degree) Program in order to plan all needed activities into your college career. Having the Pre-OT designation on your transcript record will allow you access to key information about UWM OT Program information sessions, assistance with your application, student organizations, and more. With the Pre-OT designation students may apply to the UWM Masters in Occupational Therapy Program through the Early Admission Program. This is an advantage over students applying through the regular Occupational Therapy Comprehensive Application System (OTCAS).

For additional information, please contact Patricia Thomas ([pthomas@uwm.edu](mailto:pthomas@uwm.edu)), MPA, CTRS, OST Program Director or visit the OST Undergraduate Program (<https://uwm.edu/rehabilitation-sciences-technology/academics/bs-occupational-science-technology/>) website.

## Requirements

The UWM Occupational Therapy (OT) Program's vision is to be a leader in accessibility and inclusivity recognized worldwide by our academic peers, field practitioners, alumni, present and future students, those they serve, and the public. Students from diverse backgrounds are encouraged to apply to the program. UWM's OT Program is one of the largest in Wisconsin. As the only public OT Program in the

Greater Milwaukee area, we offer a top-notch academic experience at a fraction of the cost of private schools. You may find the UWM OT Program admission requirements on the College of Health Professions and Sciences Occupational Therapy MS (p. 801) catalog page.

Successful completion of UWM's Bachelor of Science Degree in Occupational Science and Technology (OST) prepares you extremely well for graduate education in Occupational Therapy (OT). Courses cover topics in the areas of disability, assistive technology and universal design, disability and occupation, and much more. Please see the Disability and Occupation Track or the Applications of Assistive Technology Track of the OST degree (p. 798). For more information about the BS in Occupational Science and Technology, you may wish to contact Patricia Thomas, MPA, CTRS (pthomas@uwm.edu), OST Program Director. Please note, completion of the OST degree does not guarantee admission to UWM's MSOT program.

It is important to note while admission to an OT program is competitive, there are many individuals and resources available at UWM to help you prepare a quality application. UWM's Student Success Center offers supplemental instruction and tutoring. The Writing Center offers one on one sessions. The Career Planning and Resource Center offers assistance with resumes and securing paid and unpaid experiences in the area of disability, rehabilitation, and OT. The Student Health and Wellness Center provides on campus health and mental health services. Many of the instructors who teach in the OST degree have a background in rehabilitation, disability, and/or health. One of the best resources for success is the Pre-Occupational Therapy Advisor. It is important to work with MacKenzie KougI, MS (mlkougI@uwm.edu), the Pre-OT Advisor, as early in your undergraduate career as possible.

## I'm a new student. How do I start?

You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) (<https://uwm.edu/studentorientation/>) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation "Pre-Occupational Therapy" added to your academic record.

## Who is my advisor?

Undergraduate students who have declared an intent to pursue Pre-Occupational Therapy are advised by MacKenzie KougI. Contact MacKenzie at 414-229-2758 or mlkougI@uwm.edu.

## When should I meet with my advisor?

Students are encouraged to meet with their advisor at least once per semester to ensure timely progress to graduation.

- **Enrolling for spring semester?**  
Schedule an appointment with your advisor in October or November.
- **Enrolling for fall semester?**  
Schedule an appointment with your advisor in March or April.

Students are also welcome to schedule an appointment with their advisor at any time to discuss academic challenges, career opportunities, or any other questions.

## How can my advisor help me?

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## Pre-Physical Therapy

### Students Interested in Physical Therapy

Physical therapy is an integral and unique component of the healthcare system. As a health profession, physical therapy focuses on the neuromuscular, musculoskeletal, integumentary, and cardiopulmonary systems of the human body as they relate to human motion and function. Human movement and the ability to interact physically with one's environment are essential components of physical, emotional, and social well-being. The physical therapist is dedicated to promoting health, preventing disease, improving quality of life, and rehabilitating individuals disabled by injury or disease.

To practice as a Physical Therapist, the American Physical Therapy Association (<https://www.apta.org/>) (APTA) requires that students complete a Doctor of Physical Therapy (DPT) degree through an accredited program and pass the national licensure examination. Students should first complete a bachelor's degree and meet the pre-requisites for admission to a DPT program. Information about applying to DPT programs can be found in the Requirements tab. The UWM DPT (<https://uwm.edu/rehabilitation-sciences-technology/academics/dr-physical-therapy/>) program hosts regular information sessions for undergraduate students. The DPT program is a three-year professional doctorate program beyond the bachelors degree.

An undergraduate degree in Kinesiology (<https://uwm.edu/publichealth/academics/bs-kinesiology/>), the science of human movement, is ideal preparation for training in physical therapy. All UWM DPT prerequisites are included in the course of study. Kinesiology students take coursework in biomechanics, exercise physiology, motor behavior and control, and psychosocial aspects of human movement, which serve as important foundations for advanced training in a DPT program. Students can also explore the practical application of the scientific principles of human movement in correlate and elective coursework.

Inquiries about the DPT program itself should be sent to pt-program@uwm.edu.

**John Holland**, MS, Program Director, Kinesiology Undergraduate Program

Wendy Huddleston (huddlest@uwm.edu), PT, PhD, Program Director, Doctor of Physical Therapy

## Admission

**Admission to a DPT program is competitive.** As with most DPT programs in the country, application to the UWM DPT program occurs

through PTCAS (<http://www.ptcas.org/home.aspx>), which is a centralized admissions system. Completion of UWM's Kinesiology Bachelor of Science degree (<https://uwm.edu/publichealth/academics/bs-kinesiology/>) is good preparation but does not guarantee admission to UWM's DPT program. Also, be aware of the admission requirements for each individual DPT program as they do vary. Information about preparing for DPT is available in this document: Preparing to Apply for Admission to a Physical Therapy Program (<https://uwm.edu/rehabilitation-sciences-technology/academics/dr-physical-therapy/#tab-plog-admissionerapy/#tab-plog-admission>).

### UWM DPT application requirements (<https://uwm.edu/rehabilitation-sciences-technology/academics/dr-physical-therapy/#tab-plog-admission>) include:

- Completion of an undergraduate degree from an accredited institution with an overall cumulative grade point average above 3.0 (on a 4.0 scale)
- Completion of 10 prerequisite courses with a minimum prerequisite grade point average above 3.0 (on 4.0 scale)
  - Refer to DPT program website (<https://uwm.edu/rehabilitation-sciences-technology/academics/dr-physical-therapy/>) for list of prerequisite courses
- GRE scores (taken within the last five years)
- Completion of at least 40 total hours of clinical observation experiences in both inpatient and outpatient settings under the supervision of a licensed physical therapist
- Two letters of recommendation (one academic)
- Responses to narrative essay questions

### I'm a new student. How do I start?

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### Who is my advisor?

Undergraduate students who have declared an intent to pursue Pre-Physical Therapy are advised by Torry Rufer. Contact Torry at 414-229-2758 or [tjruferr@uwm.edu](mailto:tjruferr@uwm.edu).

### When should I meet with my advisor?

Students are encouraged to meet with their advisor at least once per semester to ensure timely progress to graduation.

- **Enrolling for spring semester?**  
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- **Enrolling for fall semester?**  
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### Pre-Speech-Language Pathology

Speech-Language Pathologists (SLPs) help people of all ages with communication and swallowing problems. Problems with communication and swallowing can have a significant impact on people's quality of life.

SLPs work to prevent, assess, diagnose, and treat a range of problems. These include problems with:

- **Speech sounds**, or how we say sounds and put sounds together into words. Other words for these problems are *articulation or phonological disorders, apraxia of speech, or dysarthria*.
- **Language** is how well we understand what we hear or read and how we use words to tell others what we are thinking. In adults, this problem may be called *aphasia*.
- **Literacy** is how well we read and write. People with speech and language disorders may also have trouble reading, spelling, and writing.
- **Social communication** refers to how well we follow rules, like taking turns, how to talk to different people, or how close to stand to someone when talking. This is also called *pragmatics*.
- **Voice**, or how our voices sound. We may sound hoarse, lose our voices easily, talk too loudly or through our noses, or be unable to make sound.
- **Fluency** is how well speech flows. Problems with fluency are known as *stuttering*. Someone who stutters may repeat sounds, like t-t-t-table, use "um" or "uh", or pause a lot when talking. Many young children will go through a time when they stutter, but most outgrow it.
- **Cognitive-communication** refers to how well our minds work. Problems in this area may involve memory, attention, problem-solving, organization, and other thinking skills.
- **Feeding and swallowing** or how well we chew and swallow food and liquid. A swallowing disorder may lead to poor nutrition, weight loss, and other health problems. This is also called *dysphagia*.

Speech-Language Pathologists can work in many settings including hospitals, schools, rehabilitation centers, and private practices.

A career in speech-language pathology requires a master's degree from a program accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association (<https://www.asha.org/eweb/ashadynamicpage.aspx?site=ashacms&webcode=caalisting&caacat=all>).

Before applying to graduate school, most programs require students to have either a bachelor's degree in Communication Sciences and

Disorders OR to complete pre-requisite coursework in Communication Sciences and Disorders before applying. See the requirements (p. 813) tab for details.

For additional information please contact:

Barbara Pauloski, Ph.D., CCC-SLP (pauloski@uwm.edu)

Associate Professor, Undergraduate Program Coordinator

## Requirements

Students interested in becoming speech-language pathologists may choose to complete a bachelor's degree in Communication Sciences and Disorders (<https://uwm.edu/rehabilitation-sciences-technology/academics/bs-communication-sciences-disorders/>).

Sometimes people don't decide to become a speech-language pathologist until they have already completed (or almost completed) a bachelor's degree in another area. If that is the case, it is suggested that you take the prerequisite courses listed below. It is important to check the requirements for any program before you apply to graduate school. For the requirements for applying to UWM's graduate program, check out the FAQs on our program website (<https://uwm.edu/rehabilitation-sciences-technology/academics/ms-communication-sciences-disorders/>).

- English Phonetics (COMSDIS 230)
- Anatomy & Physiology of the Speech and Hearing Mechanism (COMSDIS 220)
- Normal Language Development (COMSDIS 240)
- Speech Science (COMSDIS 480)
- Hearing Science (COMSDIS 380)
- Introduction to Audiology (COMSDIS 470)
- Aural Rehabilitation (COMSDIS 490)
- 25 guided hours of clinical observation (COMSDIS 350 & COMSDIS 351)
- Statistics (KIN 270)
- Physics or Chemistry
- Human or Animal Biology
- Psychology or Sociology

## I'm a new student. How do I start?

You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) (<https://uwm.edu/studentorientation/>) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation "Pre-Speech-Language Pathology" added to your academic record.

## Who is my advisor?

Undergraduate students who have declared an intent to pursue Pre-Speech-Language Pathology are encouraged to contact the College of Health Professions & Sciences Office of Student Affairs at 414-229-5047 or via e-mail at [uwmchps@uwm.edu](mailto:uwmchps@uwm.edu).

## When should I meet with my advisor?

Students are encouraged to meet with their advisor at least once per semester to ensure timely progress to graduation.

- **Enrolling for spring semester?**  
Schedule an appointment with your advisor in October or November.
- **Enrolling for fall semester?**  
Schedule an appointment with your advisor in March or April.

Students are also welcome to schedule an appointment with their advisor at any time to discuss academic challenges, career opportunities, or any other questions.

## How can my advisor help me?

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- Explore your academic and career interests
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- Prepare for course enrollment
- Access tutoring and other academic support
- Identify opportunities for campus involvement
- Connect you to campus resources
- Plan for graduation

## Rehabilitation Science and Technology, MS

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

Students must meet the general requirements of admission to a graduate program at UWM. As stated by the Graduate School, these requirements include: (1) "a baccalaureate degree, or its equivalent as determined by the UWM Center on International Education, from a regionally accredited institution, completed before the first term of enrollment in the Graduate School; (2) proficiency in the English language; and (3) a minimum cumulative undergraduate grade point average (GPA) of 2.75 on a 4.0 scale, or an equivalent measure on a grading system that does not use a 4.0 scale".

Additional admission requirements include: (1) Transcripts from all university degrees/coursework; (2) Reasons Statement that includes a rationale and career goals; (3) current resume or curriculum vitae; and (4) two letters of recommendation from persons most knowledgeable about the applicant's recent academic and relevant work experiences. Depending on the MS-RST track and faculty advisor, GRE scores may be requested by the Program.

Students applying to the degree must have completed (undergraduate) pre-requisites in statistics (3 credits), laboratory-based natural sciences (4 credits,) and psychology (required for the Intervention and Consultation in Performance Psychology [ICPP] and Human Factors Innovation [HFI] tracks) or sociology (3 credits). A grade of B- or better must have been obtained in each prerequisite course. Prerequisites will be verified through transcript review at the time of application. Students deemed not to have satisfied one or more of the prerequisites may be admitted on probation and complete the prerequisite(s) as deficiency credits within their first two semesters. Deficiency coursework will not count towards the MS-RST degree.

## Credits and Courses

Code	Title	Credits
<b>Prerequisites or support courses (minimum 10 credits)</b>		
Statistics		3
Natural Science(s) (Laboratory-Based)		4
Psychology (required for ICPP or HFI tracks) or Sociology		3

## Thesis Students

Code	Title	Credits
<b>Core Courses (12 credits)</b>		
Select one of the following:		3
NURS 882	Qualitative Methods in Health Research	
NURS 883	Quantitative Methods in Health Research	
OCCTHPY 542	Evidence for Practice II	
PH 729	Survey Research Methods in Public Health	
Select one of the following:		3
ED PSY 624G	Educational Statistical Methods I	
KIN 702	Statistical Analysis in the Health Sciences	
OCCTHPY 742	Single Case Experimental Design	
Select one of the following:		3
ATRAIN 799	Independent Study II	
COMSDIS 799	Independent Studies	
OCCTHPY 799	Independent Study II	
PRPP 799	Independent Study II	
PT 799	Independent Reading	
Select one of the following:		3
ATRAIN 890	Research and Thesis	
COMSDIS 790	Research and Thesis	
OCCTHPY 890	Research and Thesis	
PRPP 890	Research and Thesis	

### Foundation Courses (6 credits)

PRPP 553G	Psychological Considerations for Optimizing Health & Performance	3
PT 723	Physiological Regulation in Exertion & Disease	3

A prescribed foundation is defined for most students to take; however, advisors can define an alternative foundation on an individualized basis to ensure that each student's specialized goals are met.

### Specialization Courses (minimum of 12 credits selected from one area) 12

#### Assistive Technology and Accessible Design (ATAD)

OCCTHPY 620	Introduction to Assistive and Rehabilitation Technology
OCCTHPY 625	Design and Disability
OCCTHPY 760	Assistive and Rehabilitation Technology

#### Electives

#### Human Factors Innovations (HFI)

OCCTHPY 522	Health, Performance, & Injury Monitoring in Organizations
OCCTHPY 592	Innovative Solutions in Human Factors and Performance

#### Select one of the following:

PRPP 551G	Psychology of Injury: Prevention, Rehabilitation & Return to Participation
PRPP 552G	Psychology of Personal Excellence
NUTR 580	Sports Nutrition

#### Electives

#### Intervention and Consultation in Performance Psychology (ICPP)

PRPP 551G	Psychology of Injury: Prevention, Rehabilitation & Return to Participation
PRPP 552G	Psychology of Personal Excellence
PRPP 854	Professional Studies in Sport & Performance Psychology

#### Select one of the following:

COUNS 714	Essentials of Counseling Practice
COUNS 715	Multicultural Counseling
COUNS 814	Professional, Ethical and Legal Issues in Counseling Psychology
PRPP 855	Mentored Fieldwork in Sport and Performance Psychology

#### Rehabilitation Sciences (RS)

12 credits of courses selected in collaboration with faculty advisor that reflect an area of specialization to match the student's career and professional interests. At least 6 credits must come from ATRAIN, CSD, OCCTHPY, PRPP, or PT graduate level courses.

**Total Credits 30**

## Non-Thesis Students

Code	Title	Credits
<b>Core Courses (9 credits)</b>		
Select one of the following:		3
NURS 882	Qualitative Methods in Health Research	
NURS 883	Quantitative Methods in Health Research	
OCCTHPY 542	Evidence for Practice II	
PH 729	Survey Research Methods in Public Health	
Select one of the following:		3
ED PSY 624G	Educational Statistical Methods I	
KIN 702	Statistical Analysis in the Health Sciences	

OCCTHPY 742	Single Case Experimental Design	
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Select one of the following: 3

OCCTHPY 790	Design Project	
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PRPP 895	Capstone	
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**Foundation Courses (6 credits)**

PRPP 553G	Psychological Considerations for Optimizing Health & Performance	3
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PT 723	Physiological Regulation in Exertion & Disease	3
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PRPP 895	Capstone	
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**Specialization Courses (minimum of 15 credits selected from one area) 15**

*Assistive Technology and Accessible Design (ATAD)*

OCCTHPY 620	Introduction to Assistive and Rehabilitation Technology	
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OCCTHPY 625	Design and Disability	
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OCCTHPY 760	Assistive and Rehabilitation Technology	
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Electives minimum 6 credits)

*Human Factors Innovations (HFI)*

OCCTHPY 522	Health, Performance, & Injury Monitoring in Organizations	
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OCCTHPY 592	Innovative Solutions in Human Factors and Performance	
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Select one of the following:

PRPP 551G	Psychology of Injury: Prevention, Rehabilitation & Return to Participation	
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PRPP 552G	Psychology of Personal Excellence	
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NUTR 580	Sports Nutrition	
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Electives (minimum 3 credits)

*Intervention and Consultation in Performance Psychology (ICPP)*

PRPP 551G	Psychology of Injury: Prevention, Rehabilitation & Return to Participation	
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PRPP 552G	Psychology of Personal Excellence	
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PRPP 854	Professional Studies in Sport & Performance Psychology	
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Select two of the following:

COUNS 714	Essentials of Counseling Practice	
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COUNS 715	Multicultural Counseling	
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COUNS 814	Professional, Ethical and Legal Issues in Counseling Psychology	
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PRPP 855	Mentored Fieldwork in Sport and Performance Psychology	
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*Rehabilitation Sciences (RS)*

15 credits of courses selected in collaboration with faculty advisor that reflect an area of specialization to match the student's career and professional interests. At least 6 credits must come from ATRAIN, CSD, OCCTHPY, PRPP, or PT graduate level courses.

**Total Credits 30**

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that each student have a major professor to advise and approve the program of study. Students are assigned a faculty advisor upon acceptance to the program.

### Time Limit

The student must complete all degree requirements within seven (7) years of initial enrollment.

## Therapeutic Recreation, Undergraduate Certificate

Therapeutic Recreation (TR) is the provision of treatment services and recreation services to persons with illnesses or disabling conditions. The primary purposes of treatment services (also called recreation therapy) are to restore, remediate, or rehabilitate in order to improve functioning and independence. The primary purpose of recreation services is to provide recreation and leisure resources and opportunities to help improve health and well-being and enhance quality of life.

Therapeutic Recreation Specialists may work in hospitals, residential care, long-term care, schools, and a variety of community settings. Individuals served include people with mental, physical, or emotional disabilities. A variety of recreation/leisure activities are employed as tools to help those served attain independence and a high quality of life.

According to the U.S. Department of Labor, "The rapidly growing number of older adults is expected to spur job growth for recreational therapy professionals and paraprofessionals in assisted-living facilities, adult daycare programs, and other social assistance agencies. Continued growth also is expected in community residential care facilities, as well as daycare programs for individuals with disabilities." Given the projected need for recreation specialists, the College of Health Professions and Sciences at UWM has created a certificate program in Therapeutic Recreation (TR) available to a broad range of individuals, including students and TR and other human service professionals in the community. In addition, individuals who are certified with the National Council for Therapeutic Recreation Certification (NCTRC) may wish to complete certificate coursework to comply with continuing education requirements.

The certificate focuses on the development of knowledge and acquisition of skills and abilities in the areas of health and TR. Courses present the concepts of health, wellness, disease, and illness in relation to quality of life for individuals with disabilities. Specific skill development in the areas of assessment and facilitation techniques is also taught and complemented with an ongoing focus on emerging issues in the field of therapeutic recreation. In preparation for the nationally recognized certification examination, coursework covers topic areas included in the NCTRC Job Analysis categories. The program may be taken by UWM undergraduates concurrently with their chosen major, or as a post-baccalaureate educational certificate program.

## Related Programs and Degrees

Students interested in pursuing a career in Therapeutic Recreation may wish to examine one of the following degree programs at UWM:

## Bachelor of Art

- Psychology
- Sociology

## Bachelor of Science

- Biological Sciences
- Nursing
- Occupational Studies
- Social Work

### Notes:

- Completion of this certificate program partially fulfills the academic coursework requirements for the NCTRC Certified Therapeutic Recreation Specialist credential. Additional requirements are needed to fully qualify for the credential.
- Students interested in obtaining NCTRC certification are encouraged to visit the NCTRC website at [www.nctrc.org](http://www.nctrc.org) (<https://nctrc.org/>).

For more information about the certificate program, contact Patricia Thomas, TR Certificate Coordinator, at (414) 229-2507 or [pthomas@uwm.edu](mailto:pthomas@uwm.edu).

## Requirements

Six courses are required to successfully complete the totally online Certificate in Therapeutic Recreation. A minimum cumulative grade point average of 2.5 must be maintained on all the required coursework.

### TR Certificate Coursework

Code	Title	Credits
<b>Introductory courses</b>		
Select one of the following:		3
THERREC 103	Life Balance: An Understanding of Leisure (SU/F/S)	
THERREC 202	Disability: Society and the Person (F)	
THERREC 203	Therapeutic Recreation Process (SU/F) <sup>1</sup>	
<b>Intervention courses</b>		
Select four of the following:		12
THERREC 300	Therapeutic Recreation Assessment and Documentation (S) <sup>1</sup>	
THERREC 303	Inclusive and Disability Programs in the Community (F)	
THERREC 308	Therapeutic Recreation in Physical Rehabilitation and Behavioral Health (F) <sup>1</sup>	
THERREC 309	Therapeutic Recreation in Pediatrics and Gerontology <sup>1</sup>	
THERREC 310	Facilitation Techniques in Therapeutic Recreation (S) <sup>1</sup>	
<b>Capstone course</b>		
THERREC 400	Issues and Trends in Therapeutic Recreation (TR) (SU/F) <sup>1</sup>	3
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Required for students seeking the credential as a Certified Therapeutic Recreation Specialist (CTRS) with the National Council for Therapeutic Recreation Certification (NCTRC).

F, S, SU (fall, spring, summer) refers to the semesters in which courses are taught.

## Trauma Informed Care, Graduate Certificate (School of Rehabilitation Sciences and Technology)

The Certificate in Trauma-Informed Care will expose graduate students in several helping professions to the theory and practice of trauma-related service delivery. This is a multidisciplinary program that integrates knowledge from the social, behavioral, and health sciences. The primary goal of the program is to train graduate students from the helping professions in specialized knowledge and skills related to psychological trauma.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Admission

Students in good standing currently in a graduate program or those who have already completed a graduate degree are eligible for the certificate.

## Credits and Courses

All students participating in the certificate program will complete 15 academic credits related to trauma theory and practice.

Code	Title	Credits
<b>Core</b>		
SOC WRK/COUNS/ NURS/OCCTHPY 774	Trauma Counseling I: Theory and Research	3
SOC WRK/COUNS/ NURS/OCCTHPY 775	Trauma Counseling II: Diagnosis and Treatment	3



**Electives**  
 Select 9 elective credits (see Potential Electives and Recommended Field Work lists below) 9

*Recommended Field Work*

Select 3-6 credits from the following: <sup>1</sup>

SOC WRK 721	Field Instruction I
SOC WRK 722	Field Instruction II
SOC WRK 821	Field Instruction III
SOC WRK 822	Field Instruction IV
SOC WRK 921	Field Instruction V
COUNS 764	Supervised Practicum 1 in School Counseling
COUNS 765	Supervised Practicum 1 in Clinical Mental Health Counseling
NURS 899	Practicum in Nursing:
OCCTHPY 725	Occupational Therapy Field Service I
OCCTHPY 735	Occupational Therapy Field Service II

**Total Credits** 15

<sup>1</sup> Students also have an opportunity to complete anywhere from 3 to 6 additional qualifying program credits through participation in in trauma-informed practice field settings, contingent on the respective department’s field credit policy. Four departments are participating in this interdisciplinary certificate program—Social Work, Educational Psychology, Nursing, and Rehabilitation Sciences & Technology—and accordingly, the program curriculum will consist of courses offered via multiple campus departments.

**Potential Electives**

Code	Title	Credits
SOC WRK/CRM JST 497	Study Abroad: (Bristol or South Africa or Austria)	1-6
SOC WRK 680G	Death and Dying	3
SOC WRK 690G	Mindfulness and Community Building	3
SOC WRK 753	Adult Psychopathology	3
SOC WRK 754	Child and Adolescent Psychopathology	3
SOC WRK 791	Current Topics in Social Work: (subtopic: Technology in Social Work Practice)	3
SOC WRK 818	Treatment of Co-Occurring Disorders	3
SOC WRK 820	Seminar in Social Work Practice: (Qualifying topics: Violent & Traumatized Families; Motivational Interviewing; or Interventions for Substance Misuse and Screening Brief Intervention and Referral to Treatment for Substance Misuse)	3
PSYCH 711	Current Topics in Psychology: (Qualifying topics: Functional Assessment and Intervention or Neurobiology of Learning & Memory)	1-4
PSYCH 727	Cognitive Neuroscience	3
MSP 770	Conflict Analysis and Restorative Practices	3

COUNS 704 & COUNS 705	Multicultural Mental Health Guidelines and Ethics Overview and Multicultural Practice: Awareness and Knowledge of Others <sup>1</sup>	6
COUNS 715	Multicultural Counseling	3
COUNS 744	Multicultural Mental Health Guidelines, Working with First Nations Persons	3
COUNS 812	Clinical Studies in Counseling	3
COUNS 816	Counseling Children and Adolescents	3
COUNS 820	Counseling Appraisal and Clinical Decision-Making	3
COUNS 904	Family Systems Theory, Research, and Practice	3
OCCTHPY 519	Therapeutic Communication	3
OCCTHPY 719	Occupational Therapy in Psychosocial Practice	3
CRM JST 830	Intervention Strategies for Correctional Clients	3
CRM JST 970	Readings in Criminal Justice Research: (Qualifying topics: Victimology; Women and the Criminal Justice System)	3

<sup>1</sup> COUNS 704 and COUNS 705 must be taken together to fulfill this requirement.

**Additional Requirements**

**Transfer Credit**

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

**Grade Point Average Requirement**

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

**Articulation with Degree Programs**

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

## **Time Limit**

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# HONORS COLLEGE

The Honors College is open to qualified undergraduates pursuing a UWM bachelor's degree. The college offers seminars and individualized instruction in the humanities, arts, social sciences, and natural sciences. It is particularly appropriate for students who want more engaged and writing-intensive studies or who are preparing for graduate, law, medical, or professional school.

Students who complete the Honors curriculum receive the degree designations "Honors Degree" or "Honors with Distinction" on their diplomas and transcripts.

## Administration

Peter Sands, Director  
 Laura Blaska, Associate Director  
 Jill Budny, Assistant Director

## Admission

Students pursuing their first bachelor's degree can join the Honors College as freshmen, continuing, or transfer students. Freshmen are admitted based upon a holistic review of their UWM application and high school record. Freshmen are automatically considered once they have been admitted to UWM. Selected students are notified by mail.

Continuing UWM and transfer students should have a cumulative GPA equivalent to their academic standing (see Requirements (p. 819)) and have met the University English requirement by testing out of, or receiving a B- or better, in ENGLISH 102. Interested continuing and transfer students should contact the Honors College to schedule an appointment with an Honors advisor to discuss how the curriculum can be integrated into their academic plans.

## Continuing in the Honors College

Honors College students must meet the following **cumulative GPA**/enrollment criteria:

- To continue in the Honors College, students must maintain the following minimum grade point averages for work done at UWM by the beginning of their year in school:
  - Freshman (after first semester) 3.0
  - Sophomore 3.3
  - Junior 3.4
  - Senior/to graduate with an Honors degree 3.5
- Students admitted as new freshmen who need to complete the University English Requirement must complete Honors 200 in the first semester following their completion of the English Requirement.
- Students who do not take Honors courses for two consecutive semesters will be considered "inactive" and dropped from the Honors College.

Students are encouraged to review the Honors College Handbook (<http://uwm.edu/honors/academics/studenthandbooks/>) for additional information.

## Notification of Ineligible Students

At the end of each semester, the Honors College will review students' academic records to determine whether they meet the criteria for continuation in the program. The Honors College will notify by mail

all students who fail to meet these criteria, stating that they no longer are eligible to enroll in Honors classes. If these students already are enrolled in Honors classes for the next semester, they will be dropped administratively.

## Regaining Honors College Eligibility

- Students who become ineligible by failing to maintain the minimum grade point average may apply for reinstatement if they subsequently raise their grade point average to the required level.
- Students who become ineligible after two consecutive semesters with no Honors courses may apply for reinstatement.
- In either case, students applying for reinstatement must indicate in writing how they propose to complete Honors requirements before graduation.

## Course of Study

Freshmen and sophomores entering the Honors College must complete HONORS 200, earning a grade of B- or better, before taking other honors courses (except for honors calculus, which can be taken concurrently). Following HONORS 200, which may be repeated once with a change in topic, students with sophomore standing or above may take departmental Honors seminars at 3 credits each.

Code	Title	Credits
HONORS 200	Honors Seminar: The Shaping of the Modern Mind:	3
MATH 221	Honors Calculus I	5
MATH 222	Honors Calculus II	5
AFRIC 381	Honors Seminar:	3
ANTHRO 381	Honors Seminar:	3
ARTHIST 381	Honors Seminar:	3
ATM SCI 381	Honors Seminar:	3
BIO SCI 380	Honors Seminar:	3
CHEM 381	Honors Seminar:	3
COMPLIT 381	Honors Seminar:	3
ECON 381	Honors Seminar:	3
ENGLISH 685	Honors Seminar:	3
FRENCH 383	Honors Seminar:	3
GEOG 381	Honors Seminar:	3
GEO SCI 381	Honors Seminar:	3
HIST 398	Honors Seminar:	3
HIST 399	Honors Seminar:	3
HONORS 350	Honors Seminar in the Humanities:	3
HONORS 351	University Honors Seminar in the Social Sciences:	3
HONORS 352	Honors Seminar in the Natural Sciences:	3
HONORS 380	Honors Seminar in the Arts:	3
ITALIAN 383	Honors Seminar:	3
MATH 381	Honors Seminar:	3
PHILOS 381	Honors Seminar:	3
PHYSICS 381	Honors Seminar:	3
POL SCI 380	Honors Seminar:	3
SOCIOL 380	Honors Seminar:	3
URB STD 381	Honors Seminar:	3

With the exception of HONORS 200 and HONORS 380, Honors seminars are retakable with a change in topic to a maximum of 9 credits. HONORS 200 and HONORS 380 are retakable once.

## Advanced Independent Study

Independent study courses are offered through the Honors College and through academic departments across campus. Course numbers and prerequisites vary by department.

Code	Title	Credits
HONORS 685	Honors Tutorial	1-3
HONORS 686	Research in Honors	3-6
HONORS 687	Senior Honors Project *	3-6
HONORS 689	Senior Honors Thesis *	3-6

\* Students may not do both a Senior Thesis and a Senior Project.

## Graduate Courses

Graduate level courses completed with a B- or better may be counted toward the Honors College graduation requirements. This option normally is open only to seniors in the program who meet the necessary prerequisites. Permission for an Honors student to take a graduate course must be obtained from the instructor of the course, the chairperson of the department or school/college designee in which the course is taught, and the Honors College director.

## Other Options

A maximum of 9 Honors credits earned at other universities may be applied to the Honors College graduation requirements with the director's approval. Honors credits also may be earned through approved Study Abroad Programs.

## Graduation Requirements

An Honors College Degree requires 21 Honors credits and at least a 3.5 cumulative grade point average at graduation. All Honors credits count toward the total credits required for graduation. Students must earn a grade of B- or better to receive Honors credit for a course. At least 12 of the 21 Honors credits must be earned at UWM, with at least 9 credits in upper-level Honors seminars at UWM.

Students who plan to graduate "Honors College Degree with Distinction" need to successfully complete one of the following courses for two consecutive semesters, to a total of six credits: HONORS 686 Research in Honors, HONORS 687 Senior Honors Project, or HONORS 689 Senior Honors Thesis.

Graduating with an Honors College Degree provides convincing evidence of outstanding academic achievement, a valuable accomplishment students can note on resumes and graduate school applications. The designation of Honors College Degree or Honors College Degree with Distinction will be listed on both the diploma and final transcript.

## Graduation Ceremony

The Honors College hosts a graduation ceremony each May at the Helene Zelazo Center for the Performing Arts. This event celebrates all Honors College graduates from December, May, and August. Family and friends are welcome to attend. Additional details are available on the Honors College website (<https://uwm.edu/honors/academics/graduation/>).

## Contact Information

**Honors College**  
Honors House, 154

[uwm.edu/honors](http://uwm.edu/honors/) (<http://uwm.edu/honors/>)

# LETTERS AND SCIENCE (COLLEGE OF)

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The College of Letters and Science is the largest academic unit of the University of Wisconsin-Milwaukee. Study of the liberal arts and sciences provides a broad base of knowledge and an array of skills cited by employers as critical to professional success, even more than the major: critical thinking, problem solving, oral and written communication, ability to work well with others, and adaptability to change.

## Departments and Programs

- African and African Diaspora Studies (p. 833)
  - African and African Diaspora Studies, BA (p. 834)
  - African and African Diaspora Studies, MA (p. 837)
  - African and African Diaspora Studies, Minor (p. 839)
  - African and African Diaspora Studies, PhD (p. 839)
- American Indian Studies (p. 841)
  - American Indian Studies, Undergraduate Certificate (p. 842)
- Ancient and Modern Languages, Literatures, and Cultures (p. 843)
  - Business German, Minor (p. 845)
  - Chinese, Minor (p. 846)
  - Classics, BA (p. 847)
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  - German, BA (p. 856)
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  - Korean Studies, Minor (p. 861)
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  - Russian, BA (p. 863)
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- Anthropology (p. 867)
  - Anthropology, BA (p. 868)
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  - Anthropology, MS/Library and Information Science, MLIS (p. 876)
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  - Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 879)
  - Digital Cultures, Graduate Certificate (p. 879)
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  - Museum Studies, Graduate Certificate (p. 883)
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  - Art History, BA (p. 884)
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  - Chemistry, Minor (p. 943)
  - Chemistry, MS (p. 944)
  - Chemistry, PhD (p. 945)
  - Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 946)
  - Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 947)
  - Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 948)
- Childhood and Adolescence Studies, Undergraduate Certificate (p. 948)
- Committee Interdisciplinary Major, BA/BS (p. 950)
- Communication (p. 954)
  - Communication, BA (p. 955)
  - Communication, MA (p. 958)
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- Conservation and Environmental Science (p. 968)
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  - Conservation and Environmental Sciences, BA (p. 969)
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- Economics (p. 997)
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## Requirements

The degree requirements in the College of Letters and Science build on the University General Education Requirements to provide a broad base of knowledge as well as an array of skills cited by employers as critical to professional success: critical thinking, problem solving, oral and written communication, ability to work well with others, and adaptability to change.

For both the Bachelor of Arts (B.A.) and the Bachelor of Science (B.S.), you must complete the English Composition requirement, the Math and Formal Reasoning requirement, the Breadth requirement, the International requirement, and the Research requirement. The Breadth requirement (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>) ensures that you take classes in a wide variety of subjects, across humanities, natural sciences, and social sciences. The International requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) develops your potential for cross-cultural understanding in a globalizing world. The Research requirement (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>) calls for you to build your critical thinking and oral and written communication skills through conducting an independent research project, usually in your major.

For the Bachelor of Arts (B.A.) you will also complete the Language other than English requirement, to further develop your understanding of cultures through language.

For the Bachelor of Science (B.S.) you will complete additional coursework in Advanced Natural Science (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>).

Below are the details of the degree requirements in the College of Letters and Science.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	

*Part B*

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits 3

### Humanities

Select 6 credits 6

### Social Sciences

Select 6 credits 6

### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.



**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	

Code	Title	Credits
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area.\*

12

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation.\*\*

3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Course of Study – Bachelor of Science Degree**

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

**University General Education Requirements (GER)**

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to

select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

Courses Approved for the L&S Breadth Requirement (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>)

Courses Approved for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>)

Courses Approved for the L&S Research Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>)

Courses Approved for the L&S Advanced Natural Science Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>)

## Graduate Policies and Regulations

The Graduate School policies and regulations can be found at Graduate School Policies (p. 31). Please refer to the specific program for program policies and regulations.

## Undergraduate Policies and Regulations Semester Course Load (UWM Policy)

Students in Letters and Science may carry a maximum of 18 credits in a regular semester. In extraordinary circumstances, an overload may be granted to a student with a high GPA who has no outstanding incompletes. Students should contact their Letters and Science advisor for instructions on requesting an overload. Additional fees are assessed for credits beyond 18.

## Bachelors of Arts and Bachelors of Science Degree Requirements (Letters & Science Policy)

Specific degree requirements for the Bachelor of Arts and Bachelor of Sciences degrees are listed on the individual pages for those majors.

Students are cautioned to meet with their advisor(s) regularly to ensure they understand all requirements they need to complete in order to graduate, including major requirements, UWM general education requirements, Letters and Science breadth requirements, and Letters and Science degree requirements. Students should not rely on pre-printed sample plans as those are intended as samples only and may not apply to every student's exact circumstances.

## Declaration of an Intended Major (Letters & Science Policy)

Students who are not yet eligible to declare a major formally may declare an intended major in an academic discipline of interest to them. The declaration of an intended major is encouraged as soon as a student finds they are interested in a particular area. This action permits the department to identify students to whom to send information concerning programs, scholarships, opportunities (e.g., internships), and other matters relating to the area of study. Students may declare an intended major by completing a brief form available online ([http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Intended\\_Major\\_Form.pdf](http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Intended_Major_Form.pdf)) or from the L&S Advising Office (HLT 142).

## Declaration of a Major (Letters & Science Policy)

Students must declare a major by contacting the appropriate academic department or program. Specific information on how to declare a major can be found on that program's web site. Failure to declare the major before 75 credits have been earned may result in a delay of graduation. Some departments or programs specify course and/or GPA requirements that students must satisfy prior to declaring the major.

## Major GPA Requirement (Letters & Science Policy)

The College requires that students attain at least a 2.0 GPA in all credits in the major, including courses attempted at UWM and courses taken elsewhere and transferred to UWM. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other than the home department. Contact your major faculty advisor for information on whether those credits will count as part of the major GPA.

## Cumulative GPA Requirement (UWM Policy)

To be eligible for a bachelor's degree, students must attain a cumulative GPA of 2.0 on all credits that count toward a degree, including any transfer work.

## Major and Minor Residency Requirement (Letters & Science Policy)

The College requires that students complete at least 15 credits of their major in upper-division (numbered 300 or above) courses at UWM in order to earn that major from UWM.

The College requires that students complete at least 9 credits of their minor in upper-division (numbered 300 or above) courses at UWM in order to earn that minor from UWM.

## Degree Residency Requirements (Letters & Science Policy)

In order to provide maximum flexibility while preserving the institutional identity of a UWM degree, the College requires students to:

1. Take the last 30 credits of their program at UWM, or
2. Take 45 of the last 60 credits at UWM, or
3. Take at least 90 of the 120 credits needed for a degree at UWM

Credits earned through credit-by-examination, retroactive credit in foreign languages, and the College Level Examination Program do not count toward residency, but they also do not interrupt residency.

## Transfer Credit Limitations and Requirements (Letters & Science Policy)

Students who transfer to UWM from a UW two-year college, Milwaukee Area Technical College, Madison Area Technical College, or Nicolet Technical College may transfer up to 72 credits taken at a two-year school.

Students who transfer to UWM from a junior college outside Wisconsin must earn the final 48 credits at UWM or in another bachelor's-degree-granting college or university in accord with the requirements stated above.

## Research Requirement (Letters & Science policy)

Within their major, students must complete a research experience approved by the L&S Faculty.

## Major Requirements (Letters & Science policy)

To complete a major, students must satisfy all the requirements of the major as stated in the department or program entry in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## Minors (Letters & Science Policy)

The completion of a minor is optional. The College requires that students attain at least a 2.0 GPA in all credits in the minor, including courses attempted at UWM and any courses taken elsewhere and transferred to UWM for the minor. Individual departments may require higher GPAs for graduation. Students must complete at least 9 credits of upper-division (numbered 300 or above) courses in the minor at UWM in order to earn the minor from UWM.

## Minimum Number of Cumulative Credits (UWM Policy)

To complete a bachelor's degree, 120 degree credits are required.

## Other Credit Requirements and Limitations, Bachelor of Arts (Letters & Science Policy)

For the Bachelor of Arts degree, as part of the 120 total credits needed, students must complete at least 36 credits in upper-division (numbered 300 or above) courses offered by the College of Letters and Science.

### Limitations:

- At least 90 credits of the 120 total credits must be completed in courses offered by the College of Letters and Science, allowing students to take as electives up to 30 credits in courses offered by

other schools and colleges at UWM. There is no limit to the number of credits that may be taken in one department.

- No more than 6 credits from a single course outside the College may be counted toward the degree.
- A maximum of 12 credits in military science courses may be counted toward the degree as non-L&S electives.
- No more than 6 credits of field experience taken outside the College may be counted toward the degree.
- No more than 6 credits in sport and recreation courses may be counted toward the degree.
- No "life experience" credits may be counted toward the degree.

## Other Credit Requirements and Limitations, Bachelor of Science (Letters & Science Policy)

For the Bachelor of Science degree, as part of the 120 total credits needed, students must complete at least 36 credits in upper-division courses (numbered 300 or above) offered by the College of Letters and Science. At least 30 of these 36 credits must be from natural science curricular areas or other courses approved as advanced natural sciences (<http://uwm.edu/letters-science/advising/degree-requirements/ls-degree-requirements-fall-2013-current/fall-2013-bachelor-of-science-bs-degree-requirements/advanced-natural-science-approved-courses-list/>).

### Limitations:

- At least 90 credits of the 120 total credits must be completed in courses offered by the College of Letters and Science, allowing students to take as electives up to 30 credits in courses offered by other schools and colleges at UWM. There is no limit to the number of credits that may be taken in one department.
- No more than 6 credits from a single course outside the College may be counted toward the degree.
- A maximum of 12 credits in military science courses may be counted toward the degree as non-L&S electives.
- No more than 6 credits of field experience taken outside the College may be counted toward the degree.
- No more than 6 credits in sport and recreation courses (in the curricular areas SPT&REC or FITWELL) may be counted toward the degree.
- No "life experience" credits may be counted toward the degree.

## Eligibility for Prior Degree Requirements (Letters & Science Policy)

A student who declares their major within five years of entering the UW System as a degree candidate at any campus may choose to satisfy the requirements in force at the time of the declaration of major. Alternatively, a student may choose to satisfy any set of requirements that was in place at any time since they first entered the UW System as a degree-seeking student. Students are advised to consult with their advisor to determine whether an earlier set of requirements would be more advantageous.

Similarly, returning students who have been out of school for a long amount of time, should consult their advisor about which set of requirements may apply and which would be the best path for their specific circumstances.

## Second Baccalaureate Degree Requirements (Letters & Science Policy)

Students who already hold a bachelor's degree from another university, or from UWM but any school or college other than L&S, can earn a second

baccalaureate degree by satisfying all current requirements for that undergraduate degree in the College of Letters and Science.

Students who have been awarded a Bachelor of Arts by the UWM College of Letters and Science are not eligible for a second BA degree from L&S. Those who have earned a UWM Bachelor of Science in L&S are not eligible for a second L&S BS degree. Instead, students in this situation can add a postbaccalaureate major which will be certified on a UWM transcript.

The university wide general education requirements are assumed to be satisfied, but students must still fulfill these L&S-specific requirements:

- Math Proficiency
- Formal Reasoning
- English Proficiency
- International Requirement
- L&S Breadth Requirement
- L&S World Languages Requirement
- L&S in-residence Upper-division courses Requirement
- For the BS, the L&S Advanced Natural Sciences Requirement

Coursework previously completed, whether at UWM or elsewhere, may be used to satisfy requirements for the second bachelor's degree. Students must complete a minimum of 30 credits at UWM after the date upon which the first degree was awarded. If more than 30 credits are needed to complete all degree requirements, the last 30 credits must be completed at UWM. Of these 30 credits, at least 24 must be in courses offered through the College of Letters and Science. At least 20 of the 30 credits must be in upper-division courses, numbered 300 or above. Students must satisfy the current requirements for the chosen major.

### **Post-Baccalaureate Second Major or Additional Major Requirements (Letters & Science Policy)**

Students who already hold a bachelor's degree from UWM or from another university who wish to add an additional major to their credentials can do so by completing only the requirements for that major. Students are not required to complete an entire second degree. Students who opt for this path will leave UWM with certification that they have completed an additional major that can then be listed on a resume along with their original degree (e.g. "Bachelor of Arts with a psychology major from the University of Illinois, with a second major in sociology from UWM").

All credit and grade point average requirements currently in effect for the selected major are enforced. This means that students must complete a minimum of 15 advanced credits (numbered 300 or above) at UWM, and they must complete the version of the major in effect at the time of declaration. Students participating in the program must provide transcripts of all prior non-UWM work. Those with a prior degree are admitted with senior standing. Completion of the major is certified by the major department and recorded on an official UWM transcript.

### **Changing Majors (UWM Policy)**

Current UWM students with a major outside of the College of Letters and Science who wish to change to a major within the College of Letters and Science, may do so at any time as long as they are in good academic standing (minimum 2.0 GPA). Complete this form ([http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Change\\_Of\\_Program\\_Form.pdf](http://uwm.edu/letters-science/wp-content/uploads/sites/255/2016/05/Change_Of_Program_Form.pdf)), schedule an appointment with a Letters and Science advisor by calling (414) 229-4654, and bring the form to your

appointment. Students should carefully note that degree requirements differ significantly between the different Schools and Colleges at UWM and a thorough discussion with an advisor is recommended before making this change, especially if the student is several years into their college career.

If you are not currently in good standing, you may still make an appointment with an advisor to discuss ways to raise your GPA and classes you can take prior to transferring into L&S.

### **Make a Program Change (Add, drop, withdraw, etc.) (Letters & Science Policy)**

Many changes can be made on a self-service basis directly in PAWS up to two weeks after the start of a class. After that point in time, students should consult the Letters and Science advising website (<http://uwm.edu/letters-science/advising/answers-forms/>) for instructions on how to make a program change; there are different instructions depending on how many weeks have past since the start of the semester.

### **Grade Appeal Policy (Letters & Science Policy)**

Students should review the Letters and Science policy for grievances and grade appeals (<http://uwm.edu/letters-science/advising/answers-forms/policies/appeal-procedure-for-grades/>).

### **Academic Probation and Academic Drop (UWM Policy)**

Students with a cumulative GPA below a 2.0 are placed on academic probation. While on academic probation, if the next semester's GPA remains below a 2.0, the student will be dropped for one semester. However, if the student's semester GPA is at least a 2.0 but the cumulative GPA remains below a 2.0, the student may continue attending UWM on probation. The probation status will be removed when the cumulative GPA rises to a 2.0 or higher.

### **Return from Academic Drop (UWM Policy)**

Students may appeal to return after being dropped by contacting their advisor. Appeals will only be considered if significant and extenuating non-academic reasons can be presented. Students may be asked to provide verifiable documentation of medically-related or other circumstances.

A student who is allowed to return will be placed into a final probation status. A student who is on final probation who earns a semester GPA of at least 2.0 will be allowed to continue on final probation until the cumulative GPA rises above a 2.0. However, if a student fails to earn at least a 2.0 semester GPA, they will be dropped for two years.

### **Incomplete Policy (Letters & Science Policy)**

Students should review the Letters and Science policy for incompletes (<http://uwm.edu/letters-science/advising/answers-forms/policies/incomplete-policy/>).

### **Concurrent Enrollment (Letters & Science Policy)**

Students should review the Letters and Science concurrent enrollment (<http://uwm.edu/letters-science/advising/answers-forms/policies/concurrent-enrollment-policy/>). Concurrent enrollment refers to taking classes at both UWM and another university during the same semester. Permission is required for Fall and Spring concurrent enrollment; permission is not required to concurrently enroll in more than one university during the summer.

## Repeat Policy (UWM Policy)

Students should review UWM's policy on repeats (p. 25).

## Academic Advising and Admissions Advising

The College of Letters and Science provides general academic advising for all students with a major in the College, particularly as it relates to campus' general education requirements and the College's degree requirements. We also provide specialized advising for pre-professional students (pre-med, pre-dental, pre-pharmacy, etc.) regardless if their major is in Letters and Science or not. Prospective students, including high school students and students seeking to transfer to a program in Letters and Science may also receive advising from our admissions counselors.

Upon admission, students are assigned an advisor in the College advising office. Academic advising is available Monday through Friday from 8:30 a.m. to 4:30 p.m. by appointment. Appointments outside of these times may be available and phone appointments are available for online students. The advising office (<https://uwm.edu/letters-science/students/current-undergraduate-students/advisors/>) is located on the first floor of Holton Hall. Current students should call (414) 229-4654 to schedule an appointment or use the Student Success Collaborative website (<https://uwmilwaukee.campus.eab.com/>) to make an appointment with your assigned advisor; online scheduling is only available if you already have a Letters & Science advisor assigned to you. Prospective students should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

When students declare a major, they will receive an additional faculty advisor located within the major department who will assist with requirements for that major. Students should read the "Declaration of Major" information on the website of the major that they are interested in. In some cases, the student will need to choose a faculty advisor as part of the declaration process.

All students are cautioned to consult their Letters & Science academic advisor AND their major advisor prior to each registration period to ensure they understand all requirements. Do not rely on pre-printed sample plans, as they are intended to be samples only and may not be right for your particular situation.

## Undergraduate Opportunities

### Online Coursework and Online Majors

The College of Letters and Science offers a variety of coursework online or in a blended format (partially online and partially in-person). No distinction is made between an "online" student and an "in-person" student; students register for any combination of course formats that they wish to take. Almost all students choose to take at least one online class during their college career. All coursework is taught by the same faculty members and is of the same rigor whether it is online or in-person.

As of January 2018, there are six majors and minors available entirely online: communication, history, Jewish studies, political science, psychology, and sociology.

### Independent Learning Program

The University of Wisconsin System offers online independent learning opportunities (<https://il.wisconsin.edu/>) to students at all campuses whereby they can earn college credit.

Letters and Science students may take advantage of this program in one of two ways:

1. Students who meet the following criteria may be able to take a UW Independent Learning course for free:

- enrolled full-time in either fall or spring semester
- will also enroll in one or more UW Independent Learning course during the first two weeks of the fall or spring semester
- will complete the UW Independent Learning course during fall or spring semester rather than completing it at-your-own-pace
- will be taking a class or classes through UW Independent Learning that are not offered by UWM online (for example, foreign language courses)

If you meet these criteria, you should petition to take a UW independent Learning course for free by contacting the Assistant Dean for Student Success and Academic Services, Jennifer DeRoche at [jderoche@uwm.edu](mailto:jderoche@uwm.edu). Include in your email your name, student ID, and information about the class(es) you seek to take through the UW Independent Learning program.

2. Students can also choose to pay out-of-pocket for UW Independent Learning courses if they are part-time students or wish to take an Independent Learning course during summer term or UWinteriM term. Letters and Science imposes a one-year time limit to complete any UW Independent Learning class to have it count for credit.

All students should consult with their advisor prior to registering for a UW Independent Learning course to make sure they understand any other restrictions related to repeating a course that was previously taken or our concurrent enrollment policy (<http://uwm.edu/letters-science/advising/answers-forms/policies/concurrent-enrollment-policy/>).

### Credit for Demonstrated Equivalent Preparation (non-foreign language)

Under certain circumstances, a department may grant credits toward graduation for knowledge or abilities attained through previous work, i.e., coursework or other systematic study as determined by the department. Although the College of Letters and Science places no limit on the number of credits that may be obtained in this way, departments, if they choose to do so, may set limits on the number of credits they will grant.

Departments other than foreign language departments may grant a student credits toward graduation for a University course in which they request and pass a special University examination. An examination for credit must be based on work equivalent to a course given at UWM, and the credits granted will be for the corresponding course. In order to justify the request for an examination for credit, the student must present evidence of previous preparation to the department. Permission for such examinations must be secured in advance from the Dean of the College upon recommendation of the department chair. Examinations for credit will be taken at a time specified by the department. In general, a student may not take such an examination if any previous enrollment in the target course appears on the student's record, whether or not the course was completed.

### Credit for Demonstrated Equivalent Preparation (retro credits for foreign language)

Foreign language departments may allow students to receive credit for prerequisite language courses at the 100 and 200 level upon completion

of higher-level entry courses in that language. For example, a student whose placement test score allows them to start at the Third-Semester Spanish, for example, would receive the credits for First-Semester Spanish and Second-Semester Spanish if they successfully complete Third-Semester Spanish with a B or better. As a general policy, a grade of B or above is required, but individual departments may set a higher grade requirement. Only the grade in the completed course is computed into the grade point average; no GPA points are calculated for the retro credits. A student who earns below the required grade in the starting course becomes, thereafter, ineligible for "retro" credits in the language involved.

The number of credits that can be earned in this way is limited to a maximum of 16 in any one language.

Credits granted for the courses skipped will be equal to the credit value of those course(s) or a maximum of 4 credits for each, whichever is smallest. Students may not be granted "retro" credits for courses at the 300 level and above, except where the fourth-semester course in a regular language sequence is numbered 300 or above.

In the foreign languages, retro credits also may be granted to transfer students under the following circumstances:

- Retro credits granted by another institution will be accepted at UWM if they were granted based on a course that generates retro credits at UWM and if the student has earned the grade that is required at UWM.
- A transfer student coming from an institution that does not grant retro credits but who took a foreign language course that transfers as a qualifying course at UWM may apply for retro credits if the student satisfies UWM standards for receiving retro credits.

In both cases, the number of retro credits awarded will be limited to the number of credits students at UWM are granted for each prerequisite course.

Students who want more information should contact the chair of the appropriate language department.

## First-Year Seminars

The First-Year Seminar Program gives freshmen the opportunity to participate in a small learning community during their first semester, helping to ease the transition to college.

Limited to just 20 first-year students, each seminar provides a unique opportunity for students to get to know their professors and fellow students. In this small seminar setting, the professor serves as a mentor, coaching and helping students to achieve success. First-year seminars emphasize the development of collaboration, teamwork, written and oral communication skills, creative and analytical thinking, and skills for college success.

Seminars are offered in a wide variety of interest areas across the natural sciences, social sciences, and humanities. Most first-year seminars are offered for three credits and can be applied to degree requirements. See the Schedule of Classes (<https://www4.uwm.edu/schedule/>) for a list of first-year seminars taught in the current semester.

For more information, contact your advisor or our admissions counselors at (414) 229-7711 or [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Independent Study

Certain departments allow qualified students to register for independent study. Credits are awarded for academic activities pursued outside the formal classroom setting under the supervision of a member of the Letters and Science faculty or instructional academic staff. The activities may include reading, research, or special projects. In most departments, independent study is offered at the lower (course number 199) and upper levels (course number 699), although both levels are not available in all departments.

In order to apply for lower-level independent study, students must have a 2.5 GPA or above on all credits attempted at UWM. The upper-level independent study course carries a prerequisite of junior standing and a 2.5 UWM GPA. Departments may opt to set higher GPA prerequisites. To ascertain class standing and cumulative GPA for new transfer, special, and summer-only students, a transcript of all previous college work must be submitted. Some independent study courses may have departmental prerequisites in addition to these college-wide prerequisites. Departments do not have the authority to waive college-wide prerequisites. To see if a particular department offers independent, see that department's course listings in this catalog.

Students interested in an independent study should work with the individual they have chosen as their supervising instruction to prepare a study proposal describing the plan of study. The study proposal must be approved by the department chair and forwarded to the Office of Student Academic Services via your Letters and Science advisor.

## Internships and Experiential Opportunities

Students are strongly encouraged to enhance their classroom knowledge with experiential knowledge gained through work, volunteer, and internship experiences. These experiences are vital to career exploration and for building a resume prior to graduation.

Students find internships through a variety of sources: some use their own network to find opportunities, some majors provide assistance or host a job board, and some organizations will post opportunities with the UWM Career Planning and Resource Center (<http://uwm.edu/careerplan/>). Students should explore all avenues, including speaking with both their major advisor and their Letters and Science advisor, to find experiential learning opportunities.

Some internships may be available for college credit or for pay, or a combination of both. Students should inquire of all details and arrange for proper registration for credit if that is an option with their major advisor.

## Research Experience (Office of Undergraduate Research (OUR))

Many programs in the College of Letters and Science work closely with the Office of Undergraduate Research (OUR) to offer research experiences for undergraduates. Research spans the natural sciences, social sciences, and humanities and highly-motivated students can contribute to the creation of knowledge, sometimes even achieving professional publication alongside of faculty members.

As early as the first year in college, students can work side-by-side with faculty members and graduate students on research projects. Opportunities can include credit, pay, or a combination of both.



OUR staff will help students identify possible research projects and arrange for students to meet with the faculty members. Students can browse current opportunities at their website (<https://uwm.edu/our/>).

### Certificate Programs

Certificates are similar to minors in terms of the number of credits required. Where a minor consists of all coursework from the same department, a certificate draws on classes from multiple areas all centered around a common theme such as Asian Studies.

All certificate programs are open to current students pursuing a degree in any area, including areas outside of the College of Letters and Science. Some certificates are also open to non-degree seeking students or students who already hold a bachelor’s degree either from UWM or from another university. Interested students should check with the director of the certificate program to learn about any prerequisites or other requirements.

### Scholarships

The College as well as its many individual programs and departments have a limited number of scholarships and awards for high-achieving students. Students should visit our scholarship page (<http://uwm.edu/letters-science/scholarships/>) to learn more about available scholarships and deadlines. In general, new freshmen scholarships are given out between December and February for the following Fall (e.g. January of 2018 for a Fall 2018 start date). Many continuing student scholarships are given out 4 to 6 months ahead of the term in which the student will receive the funding (e.g. April of 2018 for the Fall 2018 semester).

### Administration

**Scott Gronert**  
Dean

**Dave Clark**  
Senior Associate Dean

**Daad Saffarini**  
Associate Dean, Natural Sciences

**James Moyer**  
Associate Dean, Social Sciences

**Jason Puskar**  
Associate Dean, Humanities

**Deanna Alba**  
Assistant Dean, College Relations, Marketing, Communication, PR

**Jennifer DeRoche**

### Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Osei-Mensah Aborampah	Professor	PhD			✓
Peter Akubeze	Senior Information Processing Consultant				
Patrick Bellegarde-Smith	Professor	PhD			✓
Abera Gelan	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	
Ermite Saint Jacques	Assistant Professor	PhD	University of Florida	✓	
Joyce F. Kirk	Associate Professor	PhD			✓

Assistant Dean, Student Success and Academic Services

**Tim Miles**  
Assistant Dean, Budget, Grants and Contracts

**Dan Siercks**  
Director, Web and Data

**Kristin Sziarto**  
Director, Curriculum and Governance

**Craig Wesley**  
Senior Assistant Dean, Administrative Affairs and Personnel

### Contact Information

**Office of L&S Student Academic Services**  
Holton Hall, 142

[uwm.edu/letters-science](http://uwm.edu/letters-science/) (<http://uwm.edu/letters-science/>)

## African and African Diaspora Studies

African and African Diaspora Studies is the discipline that studies the cultures, societies, and political economies of people of African descent in the United States and throughout the world. African and African Diaspora Studies uses both quantitative and qualitative methods of inquiry to describe, explain, evaluate, and predict the lived experiences of people of African descent. The major in African and African Diaspora Studies thus educates students in the best traditions of the liberal arts and sciences, providing them with a sound knowledge of the past, present, and future roles of people of African descent in structuring life in diverse societies. The department’s courses are designed to satisfy the needs of students who desire to specialize in African and African Diaspora Studies or whose career objectives make it desirable to have knowledge of the people of African descent in the United States and throughout the world.

Students thinking of majoring or minoring in African and African Diaspora Studies are encouraged to contact the department for assistance at [uwm.edu/african-diaspora-studies/contact-us](http://uwm.edu/african-diaspora-studies/contact-us) (<http://uwm.edu/african-diaspora-studies/contact-us/>).

### Programs

- African and African Diaspora Studies, BA (p. 834)
- African and African Diaspora Studies, MA (p. 837)
- African and African Diaspora Studies, Minor (p. 839)
- African and African Diaspora Studies, PhD (p. 839)

Nolan Kopkin	Associate Professor	PhD	Cornell University	✓	
Doreatha D. Mbalia	Professor	PhD			✓
Gladys Mitchell-Walthour	Associate Professor	PhD	University of Chicago	✓	
Jeffrey Sommers	Professor	PhD	Northeastern University	✓	
Anika Wilson	Associate Professor, Chair	PhD	University of Pennsylvania	✓	
Erin N. Winkler	Associate Professor	PhD	University of California, Berkeley	✓	

## African and African Diaspora Studies, BA

African and African Diaspora Studies examines cultures, societies and political economies of peoples of African origin and descent. This includes not just peoples of the African continent but everyone with African roots around the globe, often referred to as the African diaspora. The study of African and African Diaspora Studies is relevant to everyone, regardless of race, gender, ethnicity, nationality or religion. You will find value in the program if you are interested in working within the U.S. or internationally in health services, education, journalism, social work, politics, law, business, the non-profit sector, trade, the arts and government agencies.

Through coursework in history, literature, political science, economics, and more, students will examine a variety of issues and themes through an African-centric lens. Along the way, they will be honing their skills in communication, information analysis, and research - all skills cited by employers as critically important in their hiring process.

### Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### *Part B*

Course designated as QL-B; may be completed through a major-specific course requirement

#### **Arts**

Select 3 credits 3

#### **Humanities**

Select 6 credits 6

#### **Social Sciences**

Select 6 credits 6

#### **Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

#### **UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

#### **UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

### College of Letters & Science Requirements

#### **I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	

PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12

**Social Sciences**

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. \* 12

**Natural Sciences**

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. \* 12

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\* 3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**African and African Diaspora Studies Major Requirements**

All majors must be accepted by the department, and their programs must be arranged with a departmental advisor. To be retained as majors, students must maintain a GPA of 2.0 or better in African and African Diaspora courses attempted at UWM. In addition, students must attain a 2.0 GPA in all major courses attempted, including any transfer work. A total of 30 credits is required to complete the major; 15 credits at the 300 level or above must be taken in residence at UWM.

Code	Title	Credits
<b>African and African Diaspora Studies Requirements</b>		
AFRIC 215	Introduction to Black Social and Cultural Traditions	3

AFRIC 220	Introduction to Statistics in African and African Diaspora Studies <sup>1</sup>	3
AFRIC 228	Introduction to Black Political Economy	3
AFRIC 301	Research Methods in African & African Diaspora Studies <sup>2</sup>	3

Select 18 elective credits in African and African Diaspora Studies. At least 12 credits must be at the 300-level or higher. One course must fulfill the Research Requirement (see below). No more than 6 credits may be at the 100-level. <sup>3</sup>

**Courses that fulfill the Research Requirement**

Select one of the following:

AFRIC 300	Urban Violence	
AFRIC 319	African American Urban History	
AFRIC 320	Black Cultures in Latin America and the Caribbean	
AFRIC 321	Black Workers in the 21st Century	
AFRIC 326	Economic Problems of Black Business	
AFRIC 329	Economic Growth and Sustainable Development in Africa	
AFRIC 341	Black Politics and City Government	
AFRIC 344	Global Black Social Movements	
AFRIC 352	Extended Families in Black Societies	
AFRIC 372	African-American Literary Movements: The Harlem Renaissance	
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	
AFRIC 418	Race, Class, and Gender in Latin America and the Caribbean	
AFRIC 699	Independent Study <sup>4</sup>	

**Total Credits** **30**

<sup>1</sup> With departmental approval, the statistics requirement may be satisfied with another statistics course.

<sup>2</sup> With departmental approval, the research methods requirement may be satisfied with another methods course.

<sup>3</sup> AFRIC 100 is highly recommended. Though not required, 100-level courses prepare students for higher-level African and African Diaspora courses. No more than 6 credits of 100-level courses can count toward the major.

<sup>4</sup> With departmental approval, students can complete 3 credits in AFRIC 699 that involves completion of a research experience designed according to departmental standards.

**Cross-Listed Courses**

The following courses offered by other departments may be used to satisfy the requirements of the undergraduate major or minor in African and African Diaspora Studies.

Code	Title	Credits
ENGLISH 381	World Literatures Written in English: (African Fiction)	3
ENGLISH 517	Studies in African-American Literature:	3
ENGLISH 631	Seminar in African-American Literature:	3
FILM 301	Film Art for Non-Majors (Radical Black Film)	3

PORTUGS 225 Understanding Brazil: (African Presence in Brazilian Culture and Literature) 3

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## African and African Diaspora Studies, MA

*Effective Fall 2022, the African and African Diaspora Studies MA has suspended admission.*

This interdisciplinary program is designed to give graduates an understanding of the African and African diasporic experiences in both local and global contexts and incorporate culturally distinct perspectives in analysis of social and cultural phenomena. Upon completion of the program graduates will be able to analyze and compare knowledge systems and practices within African and African diasporic populations. MA graduates will gain skills in critiquing policies with respect to impacts upon communities of African descent both currently and in historical contexts. The MA will teach students to reflect upon and apply awareness of African and African diasporic experiences and theory to individual professional practices, communications, and interactions. Furthermore, MA graduates will gain quantitative and qualitative methodological skills for identifying and examining challenges affecting people of African descent as well as strengths and resources within African and African diasporic communities. Finally, students will utilize theoretical frameworks from Black Studies to design research-based strategies, programs, and recommendations to address challenges affecting people of African descent.

## Admission Requirements

*Effective Fall 2022, the African and African Diaspora Studies MA has suspended admission.*

## Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

The MA in African and African Diaspora Studies is designed to be completed in two years and consists of 30 graduate-course credits. These 30 credits comprise 24 credit hours of advanced coursework, followed by 6 credit hours of thesis or project work. At least 15 credits of overall coursework must be taken at the 700 level or above.

Code	Title	Credits
<b>Core Coursework</b>		<b>12</b>
AFRIC 700	Foundations and Theories in African & African Diaspora Studies	
AFRIC 701	Theories and Methods in Empirical Research in African & African Diaspora Studies	
AFRIC 705	Classic Works: Intellectual Production in Africa and the Diaspora I	
AFRIC 708	Black Literary Theory and Cultural Studies	
<b>Additional Coursework</b>		<b>12</b>
<i>Complete 12 credits from the following list:</i>		
AFRIC 300	Urban Violence	
AFRIC 311	African Religious Thought and Social Organizations	
AFRIC 319	African American Urban History	
AFRIC 321	Black Workers in the 21st Century	
AFRIC 322	Order and Disorder: The Quest for Social Justice	
AFRIC 325	Africa/China Relations	
AFRIC 326	Economic Problems of Black Business	
AFRIC 329	Economic Growth and Sustainable Development in Africa	
AFRIC 344	Global Black Social Movements	
AFRIC 350	The Black Family	
AFRIC 450	Cultural Transmissions: Black Africa and Black America	
AFRIC 451	Rites of Passage in Black Societies	
AFRIC 497	Study Abroad:	
AFRIC 545	Raising Children, 'Race-ing' Children	
AFRIC 565	Selected Texts/Topics in African & African Diaspora Studies:	
AFRIC 706	Classic Works: Intellectual Production in Africa and the Diaspora II	
AFRIC 709	Critical Literary Theory II: Modern Concepts in the African World	
AFRIC 799	Graduate Independent Study	
AFRIC 800	Introduction to Qualitative Research Methods in African & African Diaspora Studies	
AFRIC 804	Qualitative Interviewing and Grounded Theory	
AFRIC 812	Political Economy: Conceptual	
AFRIC 814	Public Policies, Development, and Underdevelopment in Africa & the Diaspora	
AFRIC 816	Political Economy of Development in African Countries	
AFRIC 817	Political Economy of Development in African Countries II	
AFRIC 818	Race Matters: Government and Politics in Latin America and the Caribbean	
AFRIC 820	Political Economy of Income and Wealth Inequality	

AFRIC 821	Race and Inequality	
AFRIC 834	Seminar on Slavery	
AFRIC 836	Comparative Social Institutions in African World Communities	
AFRIC 837	Memory and Tradition: Identity-Making and Memory in the African Diaspora	
AFRIC 840	Healing Traditions in the African Diaspora	
AFRIC 845	Race/Ethnicity and the Psychology of Oppression	
AFRIC 851	African-American Literary Theory and Criticism	
AFRIC 852	Folklore in the African World:	
AFRIC 862	Development of African-American Children in Urban and Rural Areas	
AFRIC 865	The Quest for Pan-Africanism	
AFRIC 866	Black Power Reconsidered	
AFRIC 867	Problems in African American Urban History	
AFRIC 868	Black Intellectuals and the Public Sphere	
AFRIC 880	Seminar on Issues in African & African Diaspora Studies:	
<b>Thesis Research or Project</b>		<b>6</b>
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The Graduate Committee assigns a faculty advisor as a necessary prerequisite to admission.

### Time Limit

Student must complete all degree requirements within five years of initial enrollment. It is expected that a full-time student will normally complete all of the requirements for the degree within two years.

### Exit Requirement Thesis

Students must prepare and defend a formal thesis reporting the results of their research.

### Project

Students will, in consultation with their major professor, develop a significant research project, rather than a formal thesis as would be appropriate for a student continuing on to a PhD.

### Comprehensive Exam

Students may choose to take the comprehensive exam as an option for attaining the exit requirement for an MA degree. Students seeking the option of using the Comprehensive Exam for the MA exit requirement are still required to fulfill the remaining six credits from graduate courses in African and African Diaspora Studies instead of the thesis or project credits.

## African and African Diaspora Studies, Minor

African and African Diaspora Studies examines cultures, societies and political economies of peoples of African origin and descent. This includes not just peoples of the African continent but everyone with African roots around the globe, often referred to as the African diaspora. The study of African and African Diaspora Studies is relevant to everyone, regardless of race, gender, ethnicity, nationality or religion. You will find value in the program if you are interested in working within the U.S. or internationally in health services, education, journalism, social work, politics, law, business, the non-profit sector, trade, the arts and government agencies.

Through coursework in history, literature, political science, economics, and more, students will examine a variety of issues and themes through an African-centric lens. Along the way, they will be honing their skills in communication, information analysis, and research - all skills cited by employers as critically important in their hiring process.

### Requirements

The purpose of the minor is to expose students to a range of concepts, theories and phenomena that ground the discipline of African and African Diaspora Studies. Students are required to take 18 credits, 9 of which must be completed at or above the 300 level. Up to 6 credits at the 100 level may count toward the minor. Nine credits at the 300 level or above must be taken in residence at UWM. The College of Letters and Science requires that students attain at least a 2.0 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

### Cross-Listed Courses

The following courses offered by other departments may be used to satisfy the requirements of the undergraduate major or minor in African and African Diaspora Studies.

Code	Title	Credits
ENGLISH 381	World Literatures Written in English: (African Fiction)	3
ENGLISH 517	Studies in African-American Literature:	3
ENGLISH 631	Seminar in African-American Literature:	3
FILM 301	Film Art for Non-Majors (Radical Black Film)	3
PORTUGS 225	Understanding Brazil: (African Presence in Brazilian Culture and Literature)	3

### Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive

as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## African and African Diaspora Studies, PhD

*The African and African Diaspora Studies PhD program will accept applications in the fall of 2023 for admission in fall 2024.*

The PhD in African and African and Diaspora Studies is grounded in the axiomatic assumption that, as the imperatives of global integration significantly transform human relations, the twenty-first century will witness an exponential expansion of the institutional delivery of Africological knowledge. Across the planet today, Africa remains the only continent with a vast store of natural resources (e.g., uranium, oil, copper, nickel) that are underutilized. With the demand for energy increasing exponentially worldwide, knowledge and understanding of the cultures and political economies of African countries and societies clearly are in the self-interest of the global community. Because of this twenty-first century imperative, the Department of African and African and Diaspora Studies has designed the PhD degree around two concentrations: Political Economy and Public Policy, and Culture and Society: Africa and the African Diaspora.

The fields of concentration are the substantive core of the PhD program. Political economy entails the normative and empirical relations of political and economic phenomena in given sociocultural contexts. Public policy entails the making of binding, authoritative decisions that produce, allocate, reproduce, and reallocate societal resources. Political, economic, cultural, and social elements interact continually in every political economy, and public policy substantially frames their patterns of interaction. Through a range of research methods and techniques, the concentration in political economy and public policy grounds students in local, national, and transnational political economies and public policies. Relevant courses and seminars in such fields as economics, political science, sociology, urban planning, geography, and history will be utilized.

All cultures share in common at least eight attributes. These are species life, species being, language, religion, food, literature-art-science-technology, institutions, and transgenerational memory. Systematic comparisons of these elements of cultures in Africa and in the African Diaspora worldwide afford sound explanations of, and novel insights into, the behaviors of Africans and their descent. This concentration in comparative cultures will enable students to scrutinize rigorously exchanges, admixtures, fusions, retentions, and disappearances of cultural elements in Africa and the African Diaspora in regard to their contemporary significance. Relevant courses and seminars in English, foreign languages and literatures, history, and sociology will complement those offered in the department.

### Admission Requirements

*The African and African Diaspora Studies PhD program will accept applications in the fall of 2023 for admission in fall 2024.*

## Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

To be considered for admission, an applicant must meet UWM Graduate School requirements for admission plus the departmental requirements listed below. A master's degree is not a prerequisite for this Ph.D. program.

1. Possession of an overall undergraduate grade point average of 3.33 (B+)
2. Submission of three letters of recommendation from individuals who are familiar with the applicant's academic work
3. Submission of a writing sample (10-15 pages) of the applicant's written work, signaling one's aptitude for graduate study

The GRE is recommended but not required to be considered for admission to this Ph.D. program.

Normally, students are admitted only for the fall semester. However, in extraordinary circumstances, a student may be permitted to begin Ph.D. studies in the spring semester.

Admission to the graduate program is based on a careful review of the applicant's academic qualifications and is highly competitive. Successful candidates usually have a high grade point average (GPA) in their undergraduate majors, as well as overall. There are, of course, a variety of factors that come into play over the years of an applicant's studies, and so the admissions committee will consider closely a student's academic profile, as well as accomplishments that are germane to their application.

*It is the policy of the Graduate Faculty that "Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.*

*The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree."*

## Language or Mathematics/Statistics Proficiency

Students are expected to enter the Ph.D. program with proficiency in a language other than English and/or in mathematics/statistics. Students may satisfy the language requirement by passing a translation examination administered by a faculty member, or by completing, with a grade of C or better, the final course in a four-semester sequence in a language approved by the department. Native speakers of a departmentally approved language may petition the graduate advisor for an exemption to the foreign language requirement.

Proficiency in mathematics/statistics is indicated by completion of two courses at the upper-division level (numbered 300 and above or requiring junior standing) with at least a B average. Students who have not completed this requirement in the context of their undergraduate (or master's degree) studies must take courses to satisfy the requirement during their Ph.D. studies.

Credits earned in satisfying this requirement do not count toward the required credits for the Ph.D. degree. The language or mathematics/statistics proficiency requirement must be completed prior to the

doctoral preliminary examinations. Students are encouraged strongly to have the proficiency requirements completed by the time they take the comprehensive examination.

## Credits and Courses

The PhD degree requires completion of at least 54 graduate credits—48 credits of coursework, and 6 dissertation credits. Students may count up to a maximum of 6 credits in dual level undergraduate/graduate courses toward the degree. Precise numbers of credits and actual course requirements will be determined after review of the applicant's previous coursework.

## Required

During the first three semesters in the program, the following courses in Forms of Reasoning are required:

Code	Title	Credits
<b>Core Courses</b>		
AFRIC 700	Foundations and Theories in African & African Diaspora Studies	3
AFRIC 701	Theories and Methods in Empirical Research in African & African Diaspora Studies	3
AFRIC 705	Classic Works: Intellectual Production in Africa and the Diaspora I	3
AFRIC 708	Black Literary Theory and Cultural Studies	3
<b>Area of Concentration/Electives</b>		<b>36</b>
<b>Dissertation</b>		<b>6</b>
AFRIC 990	Dissertation Research	
<b>Total Credits</b>		<b>54</b>

## Fields of Concentration

Following completion of the core courses, students must select one of two concentrations. The Department of African and African Diaspora Studies has been structured conceptually and empirically around two fields of concentration: Political Economy and Public Policy, and Culture and Society: Africa and the African Diaspora. Students will select one of these concentrations by the end of their comprehensive exams and will work with their faculty advisor to develop an appropriate program of study. In consultation with their faculty advisor, students may elect to take a concentration of 6 to 9 credits outside of the Department.

## Additional Requirements

### Major Professor as Advisor

Upon admission to the program, students are required to consult with the Director of Graduate Studies about the department's expectations of them, as well as elucidate their own expectations of the department. Soon afterward, students must secure individual advisors, drawn from the department's faculty.

### Residence

The student must complete at least half of the graduate credits required for the Ph.D. in residence (<http://uwm.edu/graduateschool/doctoral-requirements/#residence>) at UWM in doctoral status. In addition, the student must complete at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions.



## The Comprehensive Examination

Prior to the end of each entering student's third semester of enrollment, they are required to take and pass the department's graduate student comprehensive examination (written and oral) in order to continue their studies toward the Ph.D. degree. There are no exceptions to this requirement. The comprehensive examination is administered in the spring and fall semesters of each academic year.

The examination will be administered by three (3) members of the department's faculty, who will grade the written work and conduct the orals. Members of the examination committee rotate each academic year. Students must pass the written examination to be eligible for the oral examination.

Students who pass the comprehensive examination are permitted to proceed toward the Ph.D. degree. The comprehensive examination is not repeatable. Failing the examination will result in a recommendation by the department to the Graduate School for the student's dismissal from the doctoral program, at which point the student may choose to continue in the MA track toward completion of the requirements for the MA degree in African and African Diaspora Studies.

Upon passing the exam, students continue to take courses in the concentrations in preparation for the doctoral preliminary examinations and independent research.

## The Doctoral Preliminary Examinations

Students will take written and oral doctoral preliminary examinations in two of their three fields of concentration, which they will select.

To be eligible to take the preliminary examinations, which are administered in the fall and spring semesters of each academic year, students must:

- Be registered.
- Have an overall GPA of at least 3.0 (B), at the time of the examination.
- Have completed all coursework—there shall be no incompletes (Is) at the time of the examination.
- Have satisfied the foreign language or mathematics/statistics requirement.
- Have made one presentation to the department's faculty as a whole in the Departmental Faculty Colloquium Series. The purpose of the presentation is to: refine a student's knowledge of a given subject; socialize students in the rigors of making scholarly presentations on one's research before future peers; and prepare students for the demands of interviews for future jobs. A student will not be judged to either have passed or failed the presentation. Rather, they will be given constructive comments concerning the substance and style of their presentation. Generally, each colloquium will last for two (2) hours.
- Have fulfilled all residency requirements.
- Have secured, in addition to their primary departmental advisor, a secondary advisor from outside the department should they plan to use their extra-departmental field of concentration as one of the two written-examination fields.

Those who pass the written examinations with a grade of at least a B on each shall then proceed to take the oral examination. Should a student fail one of the two written examinations, they upon petition to the Director of Graduate Studies and the Graduate Studies Committee may be permitted to retake it at the next scheduled examination cycle.

Students who fail both written examinations will not be permitted to retake them.

*Failure of both written examinations, or the retake of a written examination, or the oral examination, will result in a recommendation to the Graduate School for the student's academic dismissal. Students who pass the preliminary examinations shall proceed to prepare a dissertation prospectus.*

The preliminary examinations must be taken within five years of enrollment in the Ph.D. program.

A student's dissertation committee shall consist of four (4) graduate faculty members, including their major professor. At least three (3) of the four members must be from the Department of African and African Diaspora Studies.

## Dissertation Prospectus (Proposal Hearing)

Prior to undertaking research for the dissertation, a student is required to prepare a dissertation prospectus, with the advice and consent of their advisor and Dissertation Committee. Acceptance of the dissertation proposal establishes an agreement between the student and the Dissertation Committee as to the nature and scope of the research to be conducted, and the procedure for completing the dissertation. Prior to the Dissertation Committee's approval of the prospectus, research involving the use of human subjects must receive the approval of the Institutional Review Board.

## Dissertator Status

Specific requirements which must be completed before a doctoral student qualifies for dissertator status are described on the Graduate School Doctoral Requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>) page.

## Dissertation

The dissertation is a major piece of original research representing a substantial contribution to an existing body of knowledge. The original research findings embodied in the dissertation should be acceptable for publication in a refereed journal. The student's advisor and Dissertation Committee provide guidance in completing the dissertation. Once a student's dissertation has been approved by their advisor and Dissertation Committee, the document, in approved Graduate School format, is ready to be filed with the Graduate School.

## Time Limit

It is expected that students entering the program with a baccalaureate degree should normally complete their Ph.D. degree within six (6) years. However, because circumstances beyond a student's control may prevent completion of requirements according to this timeline, students will be granted a maximum of ten years to complete the degree.

## American Indian Studies

The American Indian Studies Program offers an undergraduate major through the Committee Interdisciplinary Major and an undergraduate certificate in American Indian Studies. These academic programs draw primarily on courses from anthropology, history, literature, sociology, and education to help students develop a depth of knowledge about — and methodological skills for studying — the life experiences, culture, and languages of the native peoples of the Americas. Although interdisciplinary, American Indian Studies encompasses a distinct body of knowledge. The program's faculty and staff members are involved

in ongoing research and publication in this discipline as well as related academic disciplines.

There are two distinct features that distinguish UWM's academic programs in American Indian Studies. The Electa Quinney Institute (<https://uwm.edu/eqi/>) is a campus resource that facilitates the development of new programs, services, and research opportunities in

partnership with the American Indian community. UWM also is home to more American Indian faculty than any other school in the UW System.

## Programs

- American Indian Studies, Undergraduate Certificate (p. 842)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Kimberly M. Blaeser	Professor	PhD	University of Notre Dame	✓	
Donald Green	Associate Professor	PhD	University of Minnesota		✓
Margaret Noodin	Associate Professor	PhD	University of Minnesota	✓	
Jason Sherman	Associate Professor	PhD	University of Michigan	✓	
Michael Wilson	Associate Professor of English	PhD	Cornell University	✓	

## American Indian Studies, Undergraduate Certificate

The American Indian Studies program provides students with a thorough understanding of the Native American tribal nations in North America and their influence and impact in today's culture and society.

Our program embraces everyone interested in understanding the treaties, history, cultures, and politics that shaped the formation of North America and continue to have relevance today. While UWM does attract a number of students with Native American ancestry to the program, our classes are full of people from all types of backgrounds. They all share a common interest in understanding the past in order to impact the present. There are 565 tribal nations in the U.S., and 12 are located in the state of Wisconsin. UWM is a national driving force in this academic area because of our location; we have the most Native American faculty of any other UW school in Wisconsin.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

## Eligibility

The American Indian Studies Certificate is intended to enhance a bachelor's degree. The certificate is available to all students seeking a bachelor's degree from UWM and to students who previously have received a bachelor's degree from UWM or any other accredited college or university.

## Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.0, at least 18 credits in approved American Indian Studies courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, nine must be taken at the 300 level or above. Twelve of the 18 required credits must be in the College of Letters and Science, with at least 6 of these at the 300 level or above. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on the American Indian experience may be accepted with the approval of the Certificate Program Coordinator. If the core course is not offered in the years an undergraduate student is pursuing the certificate, the student can petition the Certificate Program Coordinator to accept another course in its stead. Other courses not on this list but relevant to the study of American Indians may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

The following are required:

Code	Title	Credits
<b>Core</b>		
AIS 101	Introduction to American Indian Studies	3
<b>Electives</b>		
Select 15 credits from the list of approved courses <sup>1</sup>		15
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Students may petition the AIS Coordinator for approval of appropriate courses not on the approved list.

## Approved Courses

Code	Title	Credits
AIS 105	Anishinaabe Ethnobotany: Plants in Anishinaabe Culture	3
AIS 106	Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy	3
AIS 171	First-Semester Indigenous Languages of Wisconsin:	4
AIS 172	Second-Semester Indigenous Languages of Wisconsin:	4
AIS 203	Western Great Lakes American Indian Community Life of the Past	3

AIS/ANTHRO 225	The Aztec Empire	3
AIS 252	Fourth Semester Anishinaabemowin (Ojibwe)	4
AIS/HIST 262	North American Indian History to 1887	3
AIS/HIST 263	North American Indian History Since 1887	3
AIS 271	Third-Semester Indigenous Languages of Wisconsin:	3
AIS/ENGLISH 276	Introduction to American Indian Literature:	3
AIS/ANTHRO 308	Archaeology of North America	3
AIS/ANTHRO 310	Archaeology of Middle America	3
AIS/ANTHRO 311	The World of the Ancient Maya	3
AIS/ANTHRO 314	American Indian Societies and Cultures	3
AIS/SOCIOL 321	Contemporary Issues of the American Indian	3
AIS 360	Ezhi-Kinomaageying: Anishinaabe Curriculum	3
AIS/ANTHRO/GLOBAL 362	System Failure: Globalization and Language Extinction	3
AIS 370	Anishinaabebiige: Archival to Contemporary Writing	3
AIS/ENGLISH 372	Survey of American Indian Literature	3
AIS/HIST 473	History of Wisconsin Indians	3
AIS/HIST 474	Topics in North American Indian History:	3
AIS/HIST 475	American Indian History, Law, and Government	3
AIS/ENGLISH 520	Studies in American Indian Literature:	3
AIS/ENGLISH 632	Seminar in American Indian Literature:	3
ANTHRO 213	American Indian Peoples of Wisconsin	3

## Ancient and Modern Languages, Literatures, and Cultures

The Department of Foreign Languages and Literature, formed in 1996, teaches modern and ancient languages, their literature, and the linguistic and philological study of these languages. The broad departmental structure encourages the development of cross-disciplinary academic undertakings.

The University's Foreign Language course requirements may be satisfied through coursework in the following curricular areas:

### Arabic

Arabic courses may be of particular interest to students in the Certificate in Middle Eastern and North African Studies, the International Studies major, the Linguistics major, and the Global Studies degree program. A minor in Arabic is also offered.

### Chinese

Courses in Chinese also may be of interest to students pursuing the Asian Studies Certificate, the International Studies major, and the Bachelor of Arts in Global Studies. A Chinese major can be completed through the Committee Interdisciplinary major; a Chinese minor is also available.

## Classics

The Classics program offers instruction in the ancient Greek and classical Latin languages and literature and in the civilizations of Greece and Rome. Courses offered in the area of classical civilization do not require a knowledge of Greek or Latin.

Students planning to pursue graduate study in classics and related disciplines, or teaching certification in Latin, should consult with the Classics Program coordinator early in their undergraduate career. Students interested in a Classics major may also want to consider the Ancient Mediterranean Studies Certificate.

## German

Students who have had no previous training in German should enroll in German 101. Those who have studied German in high school should take the placement exam in German, administered by the Testing Center, before enrolling; the exam is required for those who have had two or more years of high school German. After consultation with the department, a student may enroll in a course one level higher or lower than the one recommended by the placement examination. Both a German major and a minor are available.

## Hebrew

A four-semester sequence in Hebrew is offered by the department. All courses are available online. There is also an accompanying Jewish Studies program offered by the College of Letters and Science.

## Japanese

Courses in Japanese may be of interest to students pursuing the Asian Studies certificate, the International Studies major, and the Bachelor of Arts in Global Studies. A Japanese major can be completed through the Committee Interdisciplinary major; a minor is also available.

## Korean

Courses in Korean may be of interest to students pursuing the Asian Studies Certificate and/or the International Studies major. The Department offers a four-semester sequence in Korean.

## Slavic Languages

The Slavic Languages program offers coursework in Polish and Russian. Through the study of these languages, students gain exposure to the literature and culture of the eastern European areas in which these languages are spoken. The program offers a major in Russian. In addition, the Slavic languages are an integral part of the Russian and East European Studies Certificate Program.

## Programs

- Business German, Minor (p. 845)
- Chinese, Minor (p. 846)
- Classics, BA (p. 847)
- Classics, Minor (p. 851)
- Committee Interdisciplinary Major, BA: Chinese Language and Culture (p. 852)
- German, BA (p. 856)
- German, Minor (p. 859)
- Korean Studies, Minor (p. 861)

• Russian and East European Studies, Undergraduate Certificate (p. 861)

• Russian, BA (p. 863)  
• Russian, Minor (p. 866)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Rachel Baum	Senior Lecturer (Hebrew/Jewish Studies)	PhD	University of Wisconsin - Milwaukee		
Yael Ben-Yitschak	Lecturer (Hebrew/Jewish Studies)	BA	University of Haifa, Israel		
Joel Berkowitz	Professor (Hebrew/Jewish Studies)	PhD	City University of New York	✓	
Viktorija Bilic	Associate Professor (German and Translation)	PhD	Heidelberg University, Germany	✓	
Jocelyn Boor	Lecturer (Classics)	PhD	University of Wisconsin-Milwaukee		
Lixin Cai	Lecturer (Chinese)	MBA	Concordia University		
Renee Calkins	Visiting Assistant Professor (Classics)	PhD	University of California, Los Angeles		
Jue Chen	Assistant Professor	PhD	Princeton University	✓	
Justin Court	Lecturer (German)	PhD	University of Wisconsin-Madison		
Elisabetta Cova	Associate Professor (Classics)	PM	University of Cambridge, U.K.	✓	
Garry W. Davis	Professor (Department of Linguistics, German)	PhD	University of Michigan	✓	
Nina Familiant	Lecturer (Russian)	PhD	University of Wisconsin, Madison		
Katherina P. Filips-Juswigg	Professor (Slavic Languages)	PhD			✓
Bernard J. Grossfeld	Professor (Hebrew Studies)	PhD			✓
Robert A. Jones	Professor (German)	PhD			✓
John Kellogg	Lecturer (German)	MA	University of Wisconsin-Milwaukee		
Khuloud Labanieh	Lecturer (Education, Arabic)	MA	Cardinal Stritch University		
Masako Lackey	Senior Lecturer (Applied Linguistics, Japanese)	MA	University of Wisconsin, Madison		
Sooyeon Lee	Lecturer (Linguistics, Korean)	PhD	University of Wisconsin-Milwaukee, Coordinator, Korean		
Veronica Lundback	Senior Lecturer (Scandinavian Studies)	MA	University of Wisconsin - Milwaukee		
Dana Margolis	Senior Lecturer (Hebrew Studies)	MSCRIP	University of Texas - Austin		
Fahed Masalkhi	Lecturer (Arabic)	MA	University of Wisconsin-Milwaukee		
Karolina May-Chu	Assistant Professor (German)	PhD	University of Wisconsin – Madison	✓	
Yair Mazor	Professor (Hebrew Studies)	PhD	Tel Aviv University	✓	
Michael J. Mikos	Professor (Polish, Slavic Languages)	PhD	Brown University	✓	
Richard C. Monti	Professor (Classics)	PhD			✓
Kevin Mulholland	Visiting Assistant Professor (Japanese)	PhD	University of Michigan		
David D. Mulroy	Professor (Classics)	PhD			✓
Meghan Murphy-Lee	Senior Lecturer (Russian)	PhD	University of Kansas		
Kevin Muse	Associate Professor (Classics)	PhD	University of North Carolina at Chapel Hill	✓	

Hamid Ouali	Associate Professor (Department of Linguistics, Arabic)	PhD	University of Michigan	✓	
Joseph Peschio	Associate Professor (Russian)	PhD	University of Michigan	✓	
Roger W. Philips	Associate Professor (Slavic Languages)	PhD			✓
Andrew Porter	Associate Professor (Classics)	PhD	University of Missouri - Columbia	✓	
Aragorn Quinn	Assistant Professor (Japanese)	PhD	Stanford University	✓	
Robert C. Ross	Associate Professor (Classics)	PhD			✓
Ruth Schwertfeger	Professor (German)	PhD		✓	✓
H. James Shey	Associate Professor (Classics)	PhD			✓
Sooho Song	Assistant Professor (Foreign Languages and Literature, Korean)	PhD	University of Wisconsin - Milwaukee	✓	
Roy Arthur Swanson	Professor (Comparative Literature, Classics)	PhD			✓
Shinji Takahashi	Lecturer (Curriculum and Instruction, Japanese)	MS	University of Wisconsin - Madison		
Thu Anh Than	Lecturer (German)				
Bozena Tieszen	Senior Lecturer (Classics and German)	PhD	University of Wisconsin - Madison		
Charles A. Ward	Professor (Slavic Languages)	PhD			✓
Yuko Wert (Kojima)	Senior Lecturer (Language Education, Japanese)	MA	Obirin University, Japan		
Deanna Wesolowski	Lecturer (Classics)	PhD	University of Missouri - Columbia		
Jonathan Wiplinger	Associate Professor (German)	PhD	University of Michigan	✓	
Jason Williamson	Senior Lecturer (German)	PhD	University of Texas at Austin		
Xue Xia	Senior Lecturer (Chinese)	PhD	University of Hawaii		

## Business German, Minor

German is the third most studied foreign language in the world, and, at UWM, we offer more than just instruction in language. In addition to German fluency, students learn how to apply that fluency by studying German culture, literature, customs, and history.

Wisconsin has a strong German heritage and many students find it both professionally useful and personally satisfying to explore the State's German influences. Many may come into college having already taken German in high school. Students can take a placement test to determine their starting course and may be able to earn retroactive credits if they place above the level of GERMAN 101.

Fluency in German can provide a career advantage in all types of industries where Germany and other German-speaking countries are leaders: finance, marketing, manufacturing, politics, government work, electronics and technology, chemical and biochemical, environmental science, and architecture. At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of German in order to successfully apply their fluency.

A general minor in German is available, and there is a minor in Business German. The Business German minor is ideal for students interested in German business concepts, perhaps in preparation for an international business career. In addition to German language and culture classes, students take accounting or marketing classes from UWM's Lubar School of Business.

Students are encouraged to participate in UWM's well-established study abroad (<http://uwm.edu/cie/study-abroad/>) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Substitutions for some course requirements are possible and may include internships with firms doing business in German-speaking countries. Students also have the option of completing

a Certificate in Business German offered by the *Goethe Institut*. For further information, consult the German Program Coordinator.

The business German minor consists of a minimum of 21 credits. At least 12 of these credits must be at the 300 level or above and taken in residence at UWM.

Code	Title	Credits
GERMAN 204	Fourth-Semester German	3
GERMAN 331	German Grammar in Practice	3
GERMAN 332	Presentation and Composition	3
Select one of the following		3
GERMAN 333	Texts and Contexts	
GERMAN 334	Introduction to German Studies	
Select one of the following		3
GERMAN 360	German for the Global World	
GERMAN 474	German for Professional Purposes	
GERMAN 489	Internship in German, Upper Division	3
Select one of the following:		3-4
BUS ADM 201	Introduction to Financial Accounting	
BUS ADM 330	Organizations	
BUS ADM 360	Principles of Marketing	
<b>Total Credits</b>		<b>21</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Chinese, Minor

Each year more and more students are joining the ranks of the 1.4 billion people who speak Mandarin, the official language of the People's Republic of China and of Taiwan. Many students now can find Chinese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Chinese language instruction. We offer eight semesters of Chinese language, and equally as important, we offer an array of classes on Chinese culture. Students can explore classes in Chinese art, Chinese film, the use of Chinese in business settings, Chinese and Asian history, and the politics and religions of the region. While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they

lead themselves to believe. Successful students of Chinese will dedicate the necessary daily time to practice and repeat...and practice and repeat.

The Chinese minor is ideal for students looking to gain a competitive advantage in the job market by combining Chinese language skills with their primary major. Students in the Chinese minor take a series of intermediate level language courses and must complete at least one additional elective course.

Students are encouraged to participate in UWM's well-established study abroad (<http://uwm.edu/cie/study-abroad/>) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

The minor in Chinese consists of 21 credits distributed as follows:

Code	Title	Credits
CHINESE 201	Third Semester Chinese	5
CHINESE 202	Fourth Semester Chinese	5
CHINESE 301	Fifth Semester Chinese	4
CHINESE 302	Sixth Semester Chinese	4
Select one of the following:		3
CHINESE 320	Contemporary Chinese Societies through Film	
CHINESE 330	Chinese Language and Culture	
CHINESE 343	Chinese Martial Arts Fiction	
CHINESE 353	Popular Culture, Entertainment, and China's Modernization	
CHINESE 401	Seventh Semester Chinese	
CHINESE 402	Eighth Semester Chinese	
CHINESE 441	Business Chinese	
CHINESE 497	Study Abroad:	
CHINESE 699	Advanced Independent Study	
<b>Total Credits</b>		<b>21</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive

as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Classics, BA

Classics is the study of the literature, languages, cultures and societies of ancient Greece and Rome. It is one of the oldest of the liberal arts disciplines.

The popularity of movies like *300*, *Gladiator*, and *Troy*, have renewed students' interest in mythology and the study of classics.

Whether you choose to major in Classics or just take a few classes of interest, students in this field are exposed to the history, literature, art and architecture, archaeology, language, and religion of ancient times. Many classes are in English but some offer the subject matter in its original format of Greek or Latin. Many pre-med majors also find that an introduction to Latin vocabulary serves as an exceptional preparation for medical school where much of the terminology originated from Latin.

What can you do with a Classics major? Classics is an original liberal arts field and is designed to prepare students for any type of profession that emphasizes critical analysis, reading of dense texts, and oral and written communication. Law school is a popular destination after college, though certainly not the only option. A student's career choices after college will be guided by how they applied their coursework to real world applications during college. A student who volunteered and interned in museums and galleries may find work in that industry. A student who obtained work experience during college in library reference may pursue that line of work after graduation. The possibilities are numerous, and all students are encouraged to gain practical experience that complements the major.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	

### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

#### Quantitative Literacy

##### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

##### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

#### Arts

Select 3 credits 3

#### Humanities

Select 6 credits 6

#### Social Sciences

Select 6 credits 6

#### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

#### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

#### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	

POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		



Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. \*

**Natural Sciences**

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. \*

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\*

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Major Requirements**

There are three major concentrations:

- Classical Civilization
- Ancient Greek Language and Literature
- Classical Latin Language and Literature

Students who major in a Classics Program concentration must complete at least 15 credits of the major in 300 level or above courses in residence at UWM. All students must complete a research experience in their major. The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM, including any transfer work.

**Classical Civilization Major Concentration**

This concentration is intended for students who wish to study classical literature and culture without a focus on the original languages. Courses

in ancient Greek and Latin are optional and may count toward fulfilling major requirements. A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM.

Students must complete the L&S research requirement in the context of a Classic, Greek, or Latin course of their choosing at the 300 level or above, under the supervision of the instructor of that course. The student should inform the instructor of their intention to use the course for the L&S research requirement at the start of the course.

Completion of the major requires a minimum of 30 credits distributed as follows:

Code	Title	Credits
<b>Required</b>		
<i>Choose one from the following 100 level courses:</i>		3-4
CLASSIC 101	Words Matter: How Greek and Latin Shape Our Language	
CLASSIC 170	Classical Mythology	
GREEK 103	First Semester Greek	
LATIN 103	First Semester Latin	
<i>Choose two from the following 200 level courses:</i>		6
CLASSIC 201	Introduction to Greek Life and Literature	
CLASSIC 202	Introduction to Roman Life and Literature	
CLASSIC 211	Alexander the Great to Augustus	
CLASSIC 274	Ancient Egyptian Civilization	
<i>Select 9 additional credits in Classic, Greek, or Latin courses at the 300 level or above. Examples include the following:</i>		9
CLASSIC 301	The Life and Literature of Classical Athens: Herodotus and Dramatists	
CLASSIC 302	War and Politics in Ancient Greece	
CLASSIC 303	The Life and Literature of the Roman Empire	
CLASSIC 304	The Graeco-Roman World:	
CLASSIC 312	Ancient Epic Oral Traditions	
CLASSIC 351	Ancient Greek Religion	
CLASSIC 370	Hittite Myth and History	
CLASSIC 390	Egyptian Mythology	
GREEK 306	Readings in Ancient Greek Literature:	
GREEK 501	Readings in Classical Greek Prose:	
GREEK 502	Readings in Ancient Greek Poetry:	
LATIN 306	Readings in Latin Literature:	
LATIN 501	Readings in Latin Prose:	
LATIN 502	Readings in Latin Poetry:	
<b>Electives</b>		
<i>Select at least 12 credits (see below)</i>		12
<b>Total Credits</b>		<b>30-31</b>

**Electives**

For the remaining 12 credits, students may choose from among any Classic, Greek, or Latin courses or approved courses in related disciplines. Of these elective 12 credits, up to 9 credits can be taken in approved courses from the list below and at least 6 credits must be in courses at the 300 level or above.

Code	Title	Credits
<b>Approved courses in related disciplines</b>		
ANTHRO 305	The Celtic World	3
ANTHRO 306	European Archaeology	3
ARTHIST 312	Minoan and Mycenaean Art and Archaeology	3
ARTHIST 313	Greek Art and Archaeology	3
ARTHIST 314	Art and Archaeology of the Ancient Near East	3
ARTHIST 315	Art and Archaeology of Ancient Egypt	3
ARTHIST 316	Roman Art and Archaeology	3
ARTHIST 412	Cities and Sanctuaries of Ancient Greece	3
ARTHIST 413	Greek Sculpture	3
HIST 201	The Ancient World: The Near East and Greece	3
CLASSIC/HIST 274	Ancient Egyptian Civilization	3
HIST 202	The Ancient World: The Roman Republic and Empire	3
HIST 303	A History of Greek Civilization: The Greek City-State	3
HIST 304	A History of Greek Civilization: The Age of Alexander the Great	3
HIST 307	A History of Rome: The Republic	3
HIST 308	A History of Rome: The Empire	3
HIST 370	Topics in the History of Religious Thought: (Paganism in the Ancient World)	3
HIST 371	Topics in European History: (Rome in the Age of Constantine – Society and Culture)	3
HIST 398	Honors Seminar: (Pagans and Christians in the Roman Empire or Medicine and Healing in Ancient Greece and Rome)	3
PHILOS 430	Great Thinkers of the Ancient Period	3
PHILOS 551	Aristotle	3

## Ancient Greek Language and Literature Major Concentration

The Ancient Greek Language and Literature major concentration requires the completion of 33 credits, including the following. A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM.

Students must complete the L&S research requirement in the context of a Classic, Greek, or Latin course of their choosing at the 300 level or above, under the supervision of the instructor of that course. The student should inform the instructor of their intention to use the course for the L&S research requirement at the start of the course.

Code	Title	Credits
<b>Required</b>		
GREEK 103	First Semester Greek	4
GREEK 104	Second Semester Greek	4
GREEK 205	Third Semester Greek (or equivalent)	4
CLASSIC 201	Introduction to Greek Life and Literature	3

<b>Electives</b>	
Select four additional courses in Greek at the 300 level or above	12
Select six additional credits chosen from Greek, Latin, and/or Classic courses	6
<b>Total Credits</b>	<b>33</b>

## Classical Latin Language and Literature Major Concentration

The Classical Latin Language and Literature concentration requires the completion of 33 credits, including the following. A total of 15 credits of all courses in the major must be at the 300 level or above taken in residence at UWM.

Students must complete the L&S research requirement in the context of a Classic, Greek, or Latin course of their choosing at the 300 level or above, under the supervision of the instructor of that course. The student should inform the instructor of their intention to use the course for the L&S research requirement at the start of the course.

Code	Title	Credits
<b>Required</b>		
LATIN 103	First Semester Latin	4
LATIN 104	Second Semester Latin	4
LATIN 205	Third Semester Latin (or equivalent)	4
CLASSIC 202	Introduction to Roman Life and Literature	3

<b>Electives</b>	
Select four additional courses in Latin courses at the 300 level or above	12
Select six additional credits chosen from Latin, Greek, and/or Classic courses	6
<b>Total Credits</b>	<b>33</b>

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with

a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

The Undergraduate Faculty Advisor for Classics is Associate Professor Elisabetta Cova, [covae@uwm.edu](mailto:covae@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Classics, Minor

Classics is the study of the literature, languages, cultures and societies of ancient Greece and Rome. It is one of the oldest of the liberal arts disciplines.

The popularity of movies like *300*, *Gladiator*, and *Troy* have renewed students' interest in mythology and the study of classics.

Whether you choose to major or minor in Classics or just take a few classes of interest, students in this field are exposed to the history, literature, art and architecture, archaeology, language, and religion of ancient times. Many classes are in English but some offer the subject matter in its original format of Greek or Latin. Many pre-med majors also

find that an introduction to Latin vocabulary serves as an exceptional preparation for medical school where much of the terminology originated from Latin.

Classics is an original liberal arts field and is designed to prepare students for any type of profession that emphasizes critical analysis, reading of dense texts, and oral and written communication. Law school is a popular destination after college, though certainly not the only option. A student's career choices after college will be guided by how they applied their coursework to real world applications during college. A student who volunteered and interned in museums and galleries may find work in that industry. A student who obtained work experience during college in library reference may pursue that line of work after graduation.

## Requirements

There are three minor concentrations:

- Classical Civilization
- Ancient Greek Language and Literature
- Classical Latin Language and Literature

Completion of the Classical Civilization minor concentration requires a minimum of 18 credits, while completion of either the Ancient Greek or Classical Latin minor concentration requires a minimum of 21 credits. At least 9 of the credits in the minor must come from upper-division courses (300 level and above) completed in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

### Minor Concentration in Classical Civilization

The Classical Civilization minor concentration requires completion of a minimum of 18 credits, including the following:

Code	Title	Credits
<b>Choose one from the following 100 level courses:</b>		<b>3-4</b>
CLASSIC 101	Words Matter: How Greek and Latin Shape Our Language	
CLASSIC 170	Classical Mythology	
GREEK 103	First Semester Greek	
LATIN 103	First Semester Latin	
<b>Choose two from the following 200 level courses:</b>		<b>6</b>
CLASSIC 201	Introduction to Greek Life and Literature	
CLASSIC 202	Introduction to Roman Life and Literature	
CLASSIC 211	Alexander the Great to Augustus	
CLASSIC 274	Ancient Egyptian Civilization	
<b>Select nine additional credits in Classic, Greek, or Latin courses at the 300 level or above. Examples include the following:</b>		<b>9</b>
CLASSIC 301	The Life and Literature of Classical Athens: Herodotus and Dramatists	
CLASSIC 303	The Life and Literature of the Roman Empire	
CLASSIC 304	The Graeco-Roman World:	
CLASSIC 312	Ancient Epic Oral Traditions	
CLASSIC 351	Ancient Greek Religion	
CLASSIC 370	Hittite Myth and History	
CLASSIC 390	Egyptian Mythology	

GREEK 306	Readings in Ancient Greek Literature:
GREEK 501	Readings in Classical Greek Prose:
GREEK 502	Readings in Ancient Greek Poetry:
LATIN 306	Readings in Latin Literature:
LATIN 501	Readings in Latin Prose:
LATIN 502	Readings in Latin Poetry:

**Total Credits** **18-19**

### Minor Concentration in Ancient Greek Language and Literature

The Ancient Greek Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

Code	Title	Credits
GREEK 103	First Semester Greek	4
GREEK 104	Second Semester Greek	4
GREEK 205	Third Semester Greek (or equivalent)	4
Select 6 credits in Greek at the 300 level or above		6
Select 3 credits in Greek or Classic at the 300 level or above		3

**Total Credits** **21**

### Minor Concentration in Classical Latin Language and Literature

The Classical Latin Language and Literature minor concentration requires completion of a minimum of 21 credits, including the following:

Code	Title	Credits
LATIN 103	First Semester Latin	4
LATIN 104	Second Semester Latin	4
LATIN 205	Third Semester Latin (or equivalent)	4
Select 6 credits in Latin at the 300 level or above		6
Select 3 credits in Latin or Classic at the 300 level or above		3

**Total Credits** **21**

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Committee Interdisciplinary Major, BA: Chinese Language and Culture

The Committee Interdisciplinary Major with a focus in Chinese language and culture is a vital program with growing importance and value as China expands its role as a super power in world economics, manufacturing, technology, and politics.

Each year more and more students are joining the ranks of the 1.4 billion people who speak Mandarin, the official language of the People's Republic of China and of Taiwan.

Many students now can find Chinese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Chinese language instruction. We offer eight semesters of Chinese language, and equally as important, we offer an array of classes on Chinese culture. Students can explore classes in Chinese art, Chinese film, the use of Chinese in business settings, Chinese and Asian history, and the politics and religions of the region.

While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful students of Chinese will dedicate the necessary daily time to practice and repeat...and practice and repeat.

Students are encouraged to participate in UWM's well-established study abroad (<http://uwm.edu/cie/study-abroad/>) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	

*Part B*

Course designated as OWC-B; may be completed through a major-specific course requirement

**Quantitative Literacy**

*Part A*

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

*Part B*

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	

SOCIOL 261	Introduction to Statistical Thinking in Sociology
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**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
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### Cultural Diversity

Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3
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\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Major Requirements

The Chinese Language and Culture program requires completion of 30 credits in approved Chinese and related courses. Students in the major must complete the fifth- through eighth-semester Chinese courses as the core of the program. In addition, culture-related courses that are taught using the target language are required. Students must complete 30 credits to graduate, at least 15 of them at the advanced level (300 and above) taken in residence at UWM. The major requires a minimum of 18 credits at the 300 level or above taught in Chinese. The College requires that students attain at least a 2.0 GPA on all major credits attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Code	Title	Credits
<b>Required <sup>1</sup></b>		
CHINESE 301	Fifth Semester Chinese	4
CHINESE 302	Sixth Semester Chinese	4
CHINESE 401	Seventh Semester Chinese	3
CHINESE 402	Eighth Semester Chinese	3

Select one of the following:	3
CHINESE 320 Contemporary Chinese Societies through Film	
CHINESE 330 Chinese Language and Culture	
CHINESE 441 Business Chinese	
<b>Capstone</b>	
AMLLC 699 Advanced Independent Study (satisfies the research requirement of the L&S degree)	3
<b>Electives (see list of approved electives below) <sup>2</sup></b>	
Select 10 credits	10
<b>Total Credits</b>	<b>30</b>

<sup>1</sup> Students whose language skills allow them to begin their study of Chinese beyond the fifth semester course must discuss with the advisor appropriate substitute courses in order to complete the required 30 credits.

<sup>2</sup> The courses listed below are already approved electives. Other variable content courses with appropriate subtitles may be approved on a semester-by-semester basis to count toward the major.

### Electives

Code	Title	Credits
ARTHIST 380	Chinese Painting	3
ARTHIST 382	Chinese Art and Architecture	3
ARTHIST 481	Topics in Chinese Art:	1-3
CHINESE 150	Contemporary Chinese Society and Culture	3
CHINESE 160	A Taste of China: Learning Chinese Culture and Society through Cuisine	3
CHINESE 200	Chinese Calligraphy	3
CHINESE 220	Introduction to Chinese Poetry	3
CHINESE 320	Contemporary Chinese Societies through Film (if not selected above)	3
CHINESE 330	Chinese Language and Culture (if not selected above)	3
CHINESE 343	Chinese Martial Arts Fiction	3
CHINESE 353	Popular Culture, Entertainment, and China's Modernization	3
CHINESE 397	Study Abroad:	3
CHINESE 441	Business Chinese (if not selected above)	3
CHINESE 489	Internship in Chinese, Upper Division	3
CHINESE 497	Study Abroad: (highly encouraged)	3
CHINESE 699	Advanced Independent Study	1-3
COMPLIT 230	Literature and Society: (Chinese Literature before the 20th Century)	3
COMPLIT 360	Seminar in Literature and Cultural Experience: (Modern Chinese Literature)	3
ECON 193	First-Year Seminar: (Growth and Development in China, Japan, and Korea)	3
ENGLISH/COMPLIT/FILMSTD 316	World Cinema: (Hong Kong Cinema)	3

HIST 175	East Asian Civilization to 1600	3
HIST 269	Asian Americans in Historical Perspective	3
HIST 376	Premodern China	3
HIST 377	Modern China	3
HIST 378	Revolution in China	3
PHILOS 204	Introduction to Asian Religions	3
POL SCI 314	Chinese Politics and Foreign Policy	3

### Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

### College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## German, BA

German is the third most studied foreign language in the world, and, at UWM, we offer more than just instruction in language. In addition to German fluency, students learn how to apply that fluency by studying German culture, literature, customs, and history.

Wisconsin has a strong German heritage and many students find it both professionally useful and personally satisfying to explore the State's German influences. Many may come into college having already taken German in high school. Students can take a placement test to determine their starting course and may be able to earn retroactive credits if they place above the level of GERMAN 101.

Fluency in German can provide a career advantage in all types of industries where Germany and other German-speaking countries are leaders: finance, marketing, manufacturing, politics, government work, electronics and technology, chemical and biochemical, environmental science, and architecture. At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of German in order to successfully apply their fluency.

Students are encouraged to participate in UWM's well-established study abroad (<http://uwm.edu/cie/study-abroad/>) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		

### Oral and Written Communication

#### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)
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#### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits	3
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### Humanities

Select 6 credits	6
------------------	---

### Social Sciences

Select 6 credits	6
------------------	---

### Natural Sciences

Select 6 credits (at least two courses including one lab)	6
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### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement



<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		

AFRIC 220	Introduction to Statistics in African and African Diaspora Studies
ANTHRO 568	Introduction to Anthropological Statistics
BIO SCI 465	Biostatistics
ECON 210	Economic Statistics
GEOG 247	Quantitative Analysis in Geography
HIST 595	The Quantitative Analysis of Historical Data
MTHSTAT 215	Elementary Statistical Analysis
PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences

(SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Major Requirements

All majors are required to take an advanced language proficiency exam, normally during the semester in which they complete 24 credits in the major. The College of Letters & Science requires that students attain at

least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Majors must register with the program at the beginning of their candidacy.

The major requires a minimum of 30 credits. At least 18 of the 30 credits must be at the 300 level and above and taken in residence at UWM. No more than 18 credits will be accepted from study abroad.

Code	Title	Credits
<b>Required</b>		
GERMAN 204	Fourth-Semester German	3
GERMAN 331	German Grammar in Practice	3
GERMAN 332	Presentation and Composition	3
GERMAN 333	Texts and Contexts	3
GERMAN 334	Introduction to German Studies	3
Select 1 course fulfilling the research requirement		3
Select 6 credits from courses taught in the German program numbered between 470 and 488		6
Select 6 credits from courses in German at the 300-level and above; OR 3 credits from courses in German at the 300-level and above and 3 credits from pre-approved electives listed below		6
<b>Total Credits</b>		<b>30</b>

## Research Experience

The College of Letters & Science requires students to complete a research experience in their major. Students fulfill this requirement in the context of the following courses. Depending on the course chosen, the research course can also count for the requirement for a 300-level and above course or for a course numbered between 470 and 488, but cannot count for both.

Code	Title	Credits
GERMAN 371	German Phonetics	3
GERMAN 474	German for Professional Purposes	3
GERMAN 475	Seminar on the History and Structure of German	3
GERMAN 478	Reading Older German Handwriting	3
GERMAN 483	Seminar on German Studies:	3
GERMAN 484	Seminar on Themes and Motifs in German Literature:	3

## Pre-Approved Electives

Code	Title	Credits
ARTHIST 205	History of Film I: Development of an Art	3
ARTHIST 206	History of Film II: Development of an Art	3
ARTHIST 357	Rococo to Revolution: European Art, 1750-1850	3
ARTHIST 364	Modernism and the Avant-Garde, 1900-1960	3
ARTHIST 366	German Painting, 1800-1933	3
ARTHIST 465	Dada and Surrealist Art	3
FILMSTD 205	History of Film I: Development of an Art	3
FILMSTD 206	History of Film II: Development of an Art	3

GEOG 330	Europe: East and West	3
GERMAN 111	German Life and Civilization: Part I	3
GERMAN 112	German Life and Civilization: Part II:	3
GERMAN 145	Views of Germany:	3
HIST 203	The History of Medieval Europe: The Early Middle Ages	3
HIST 204	The History of Medieval Europe: The High Middle Ages	3
HIST 241	Women and Gender in Europe: 1350 to 1750	3
HIST 248	The First World War	3
HIST 249	The Second World War in Europe	3
HIST 363	Germany: Hitler and the Nazi Dictatorship	3
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3
HIST 371	Topics in European History:	3
HIST 379	Introduction to Jewish History	3
JEWISH 261	Representing the Holocaust in Words and Images	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
MUSIC 246	German and French Lyric Diction	1
MUSIC 307	General History of Western Music III	3
MUSIC 311	Music of the Baroque Era	3
MUSIC 312	Music of the Classic Era	3
MUSIC 313	Music of the Romantic Era	3
MUSIC 314	Music since 1900	3
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	2
PHILOS 435	Existentialism	3
PHILOS 437	Phenomenology	3
POL SCI 334	German Politics and the New Europe	3
POL SCI 339	European Integration	3
POL SCI 382	Modern Political Thought	3

## Letters & Science Advising

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## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

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## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## German, Minor

German is the third most studied foreign language in the world, and, at UWM, we offer more than just instruction in language. In addition to

German fluency, students learn how to apply that fluency by studying German culture, literature, customs, and history.

Wisconsin has a strong German heritage and many students find it both professionally useful and personally satisfying to explore the State's German influences. Many may come into college having already taken German in high school. Students can take a placement test to determine their starting course and may be able to earn retroactive credits if they place above the level of GERMAN 101.

Fluency in German can provide a career advantage in all types of industries where Germany and other German-speaking countries are leaders: finance, marketing, manufacturing, politics, government work, electronics and technology, chemical and biochemical, environmental science, and architecture. At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of German in order to successfully apply their fluency.

Students are encouraged to participate in UWM's well-established study abroad (<http://uwm.edu/cie/study-abroad/>) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Requirements

The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The minor in German requires a minimum of 21 credits. At least 12 of these credits must be at the 300 level or above and taken in residence at UWM.

Code	Title	Credits
<i>Core courses</i>		
GERMAN 204	Fourth-Semester German	3
GERMAN 331	German Grammar in Practice	3
GERMAN 332	Presentation and Composition	3
Take at least one of these:		3-6
GERMAN 333	Texts and Contexts	
GERMAN 334	Introduction to German Studies	
<i>Electives</i>		
Select 6-9 additional credits in courses taught in German program at the 300 level or above, or 3-6 credits from German courses numbered 300 and above plus 3 credits from the pre-approved electives in other subjects listed below		6-9
<b>Total Credits</b>		<b>21</b>

## Pre-Approved Electives

Code	Title	Credits
ARTHIST 205	History of Film I: Development of an Art	3
ARTHIST 206	History of Film II: Development of an Art	3
ARTHIST 357	Rococo to Revolution: European Art, 1750-1850	3

ARTHIST 364	Modernism and the Avant-Garde, 1900-1960	3
ARTHIST 366	German Painting, 1800-1933	3
ARTHIST 465	Dada and Surrealist Art	3
FILMSTD 205	History of Film I: Development of an Art	3
FILMSTD 206	History of Film II: Development of an Art	3
GEOG 330	Europe: East and West	3
GERMAN 111	German Life and Civilization: Part I	3
GERMAN 112	German Life and Civilization: Part II:	3
GERMAN 145	Views of Germany:	3
HIST 203	The History of Medieval Europe: The Early Middle Ages	3
HIST 204	The History of Medieval Europe: The High Middle Ages	3
HIST 241	Women and Gender in Europe: 1350 to 1750	3
HIST 248	The First World War	3
HIST 249	The Second World War in Europe	3
HIST 363	Germany: Hitler and the Nazi Dictatorship	3
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3
HIST 371	Topics in European History:	3
HIST 379	Introduction to Jewish History	3
JEWISH 261	Representing the Holocaust in Words and Images	3
MUSIC 211	General History of Western Music I	3
MUSIC 212	General History of Western Music II	3
MUSIC 246	German and French Lyric Diction	1
MUSIC 307	General History of Western Music III	3
MUSIC 311	Music of the Baroque Era	3
MUSIC 312	Music of the Classic Era	3
MUSIC 313	Music of the Romantic Era	3
MUSIC 314	Music since 1900	3
MUSIC 377	Song Literature I: Italy, Germany, France, Great Britain	2
PHILOS 435	Existentialism	3
PHILOS 437	Phenomenology	3
POL SCI 334	German Politics and the New Europe	3
POL SCI 339	European Integration	3
POL SCI 382	Modern Political Thought	3

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned.

These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Korean Studies, Minor

BTS, Blackpink, *Squid Game*, and *Parasite*. They are successful Korean entertainers or cultural products. The *New York Times* has said that Korea has become a cultural juggernaut. With the 10th largest economy, Korea is playing a significant role in international political and economic arenas. Thus, there is a high demand for people who are equipped with Korea language ability and cultural understanding.

The Korean Studies Minor is designed to help students understand Korean culture, society, and people as well as provide language training. Upon completion of the program, students should be able to (1) read, write, and speak fluently; (2) understand key concepts of culture and current affairs in the context of history; and (3) apply their cultural knowledge and language ability in their profession.

## Requirements

The minor in Korean consists of at least 22 credits. The College requires that students complete at least 9 credits of their minor in upper-division (numbered 300 or above) courses in residence at UWM to earn a minor at UWM. The College also requires that students attain at least a 2.0 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Students entering with no previous Korean language experience should enroll in KOREAN 101. Students entering with previous knowledge of, or high school preparation in, Korean, or transfer students who have studied Korean in other colleges, are assigned to courses on the basis of a departmental placement consultation with the Korean program coordinator. Students placed into a course beyond the 101 level who complete their first course with a grade of at least a B may receive retroactive credits earned at the 200 level or above to a maximum of 16 credits, for the courses leading to the one into which they are placed.

Those who are able to begin their study of Korean by placing into KOREAN 202 or above will take sufficient elective credits, approved by the Korean coordinator, to complete at least 22 credits in the minor with 9 credits at the 300 level or above.

The following (or equivalent or exemption) are required:

Code	Title	Credits
<i>The following language courses (or equivalents)</i>		
KOREAN 201	Third Semester Korean	5
KOREAN 202	Fourth Semester Korean	5
KOREAN 301	Fifth Semester Korean	3
KOREAN 302	Sixth Semester Korean	3
<i>Required core course in Korean culture and society</i>		
KOREAN 221	Korean Culture and Society	3
<i>One of the following:</i>		
KOREAN 489	Internship in Korean, Upper Division	3

KOREAN 497	Study Abroad:
KOREAN 699	Advanced Independent Study
HIST 372	Topics in Global History: (with topic: The Korean War)
POL SCI 345	Korean Politics and Foreign Policy
Or other 300- or higher-level course focusing on Korea, subject to the approval of the coordinators	
<b>Total Credits</b>	<b>22</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Russian and East European Studies, Undergraduate Certificate

The purpose of the Russian and East European Studies undergraduate certificate is to enable students to take a coordinated series of courses and to receive a formal certificate signifying this specialization.

In recent years, Russia has become an even larger global influence on politics, the economy, security, and international trade. Understanding the language and culture of Russia has become increasingly important, and the value of knowledge and skills in this area is anticipated to continue to grow.

Only about 15% of the colleges and universities in the U.S. are able to offer a Russian major, and UWM is among this small group. This Slavic language is growing in importance and in value as the political and economic dynamics of Russia and the region are evolving. Russian is one of the five official languages of the United Nations and has more than 200 million speakers around the world. The U.S. State Department has deemed Russian to be a "critical language" and has many programs to encourage students to join this needed area of study.

At UWM, students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of Russian in order to successfully apply their fluency. Students are also encouraged to participate in UWM's study abroad program with destinations including Saratov, Moscow, St. Petersburg, and Vladimir. Some students choose just a short immersion while others go abroad for a semester or even a full year. Because of the complexities of planning a study abroad

experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

## Eligibility

The Russian and East European Studies Certificate Program is open to all students seeking a bachelor's degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

## Requirements

To obtain the certificate, students must complete at least 18 credits including the requirements in either of the following two tracks. In both tracks, students must achieve a minimum grade point average of 2.75 in all courses taken for the certificate, including language courses. Students should be aware that not all certificate courses are taught regularly. They are advised, therefore, to plan ahead in choosing courses needed for the certificate. A maximum of 3 credits in advanced independent study courses (699) may be applied toward completion of certificate requirements. Other appropriate courses taught by the area faculty, but not on the list, may be taken with the approval of the Chair of the Russian and East European Studies Committee. For courses to count towards the REES certificate, at least one third of the content must be related to the regions of Eastern and Central Europe, Russia, Eurasia, and/or Central Asia. For pre-approved courses, see the list of approved courses. When necessary, requests for other substitute courses will be considered by the committee, provided they are made well in advance of graduation.

### Track One (with language study)

1. 9 credits in approved upper division courses in area history, political science, area studies, and foreign languages and literature, or substitutes as approved by the Committee.
2. Demonstrated proficiency in one of the languages of the region: four semesters of language study or its equivalent. Students with language proficiency gained in contexts other than classroom instruction should consult the REES advisor about proficiency testing options.

### Track Two

1. 18 credits from the approved list of courses in area history, political science, area studies, and foreign languages and literature, or substitutes approved by the Committee. At least 9 credits must be upper division.

At least 9 credits must be completed successfully at UWM for both tracks.

## Courses Approved for the Certificate Program

Code	Title	Credits
<b>Geography</b>		
GEOG 330	Europe: East and West	3
<b>History</b>		
HIST 239	Poland and its Neighbors, 1795-1914	3
HIST 248	The First World War	3
HIST 249	The Second World War in Europe	3
HIST 295	Historical Encounters: (with Russian and/or East European subtitle)	3
HIST 341	Imperial Russia	3
HIST 343	Russia Since 1917	3
HIST 346	Poland and Its Neighbors, 1914-1945	3
HIST 348	Poland and Its Neighbors, 1945 to the Present	3
HIST 363	Germany: Hitler and the Nazi Dictatorship	3
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3
<b>Jewish Studies</b>		
JEWISH 358	The Jews of Modern Europe: History and Culture	3
JEWISH 421	Introduction to Yiddish Literature:	3
<b>Political Science</b>		
POL SCI 302	Politics of Eastern Europe	3
POL SCI 310	Russian and Post-Soviet Politics	3
POL SCI 312	The Politics of Authoritarian Regimes	3
POL SCI 333	Seminar in Comparative Politics: (with Russian and/or Eastern European subtitle)	3
POL SCI 371	Nationalism and Ethnic Conflict	3
<b>Polish</b>		
All courses. The following Polish courses are offered regularly:		
POLISH 101	First-Semester Polish	4
POLISH 102	Second-Semester Polish	4
POLISH 236	Polish Culture in its Historical Setting	3
<b>Russian</b>		
All courses. The following Russian courses are offered regularly:		
RUSSIAN 101	First-Semester Russian	5
RUSSIAN 102	Second-Semester Russian	5
RUSSIAN 201	Third-Semester Russian	4
RUSSIAN 202	Fourth-Semester Russian	4
RUSSIAN 310	Advanced Russian Reading and Conversation:	3
RUSSIAN 311	Contemporary Russian Language:	3
RUSSIAN 419	Introduction to Translation: Russian to English	3
<b>Courses taught in English:</b>		
AMLLC 240	Vampires: From Slavic Village to Hollywood	3
RUSSIAN 245	Russian Life and Culture	3
RUSSIAN 260	Topics in Slavic Culture:	1

RUSSIAN 350	Dostoyevsky and Tolstoy in Translation: Major Works	3
RUSSIAN 361	Russian and Slavic Folklore	3
RUSSIAN 391	Russian Literature and Culture in Translation:	3

**Slavic Languages**

All courses

## Russian, BA

In recent years, Russia has become an even larger global influence on politics, the economy, security, and international trade. Understanding the language and culture of Russia has become increasingly important, and the value of knowledge and skills in this area is anticipated to continue to grow.

Only about 15% of the colleges and universities in the U.S. are able to offer a Russian major, and UWM is among this small group. This Slavic language is growing in importance and in value as the political and economic dynamics of Russia and the region are evolving. Russian is one of the five official languages of the United Nations and has more than 200 million speakers around the world. The U.S. State Department has deemed Russian to be a "critical language" and has many programs to encourage students to join this needed area of study.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of Russian in order to successfully apply their fluency.

Students are also encouraged to participate in UWM's study abroad (<https://uwm.edu/cie/study-abroad/>) program with destinations including Saratov, Moscow, St. Petersburg, and Vladimir. Some students choose just a short immersion while others go abroad for a semester or even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		

ENGLISH 102	College Writing and Research (or equivalent)
-------------	--

*Part B*

Course designated as OWC-B; may be completed through a major-specific course requirement

**Quantitative Literacy**

*Part A*

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra

Or equivalent course

*Part B*

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	

POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is **NOT** the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		



Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. \*

**Natural Sciences**

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. \*

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\*

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Major Requirements**

Majors must complete at least 15 credits in advanced-level courses (300 and above) in residence at UWM; at least 9 of these credits must be in the Russian curricular area. Students must attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, the College of Letters and Science requires that students attain a 2.0 GPA on all major credits attempted, including any transfer work. Major courses taken outside the Russian curricular area count in the major GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive study abroad should contact the program coordinator to discuss the college's residency requirement.

The Russian major requires completion of four semesters of college-level Russian (through RUSSIAN 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the major GPA. In addition, individuals must complete 18 credits as follows:

Code	Title	Credits
<b>Core</b>		
RUSSIAN 310	Advanced Russian Reading and Conversation:	3
RUSSIAN 311	Contemporary Russian Language:	3
Select 12 additional credits in Russian		12
<b>Electives</b>		
Select 12 additional credits <sup>1</sup>		12
<b>Research Requirement</b>		
RUSSIAN 391	Russian Literature and Culture in Translation: <sup>2</sup>	3
or RUSSIAN 699	Supervised Individual Reading	
<b>Total Credits</b>		<b>33</b>

<sup>1</sup> Selected from Russian and/or cross-listed and related courses (see the two lists below). A maximum of 3 credits from the list of related courses can count toward this requirement.

<sup>2</sup> As part of their required credits, all students must complete a research experience as required by the College. Students will satisfy this requirement in the context of RUSSIAN 391 or RUSSIAN 699.

**Cross-listed Courses**

The following courses are approved to satisfy the requirements of the Russian major and minor. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list.

Code	Title	Credits
ENGLISH 316	World Cinema: (Russian Cinema)	3
ETHNIC 250	Selected Topics in Ethnic Studies: (Gender and Ethnicity in and After the USSR)	3
HIST 341	Imperial Russia	3
HIST 343	Russia Since 1917	3
INTLST 550	Senior Seminar in International Studies: (Russia in Transition: Media and Values)	3
POL SCI 310	Russian and Post-Soviet Politics	3

**Related Courses <sup>1</sup>**

The following courses are approved to satisfy the requirements of the Russian major. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list. Majors may count a maximum of three credits from the following list toward the major requirements:

Code	Title	Credits
HIST 249	The Second World War in Europe	3
HIST 375	Contemporary European History, 1945 to the Present	3
POL SCI 302	Politics of Eastern Europe	3

<sup>1</sup> Students may enroll in and complete all advanced-level courses with the subject code LINGUIS and all courses under the subject code POLISH.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Russian, Minor

In recent years, Russia has become an even larger global influence on politics, the economy, security, and international trade. Understanding the language and culture of Russia has become increasingly important, and the value of knowledge and skills in this area is anticipated to continue to grow.

Only about 15% of the colleges and universities in the U.S. are able to offer a Russian major, and UWM is among this small group. This Slavic language is growing in importance and in value as the political and economic dynamics of Russia and the region are evolving. Russian is one of the five official languages of the United Nations and has more than 200 million speakers around the world. The U.S. State Department has deemed Russian to be a "critical language" and has many programs to encourage students to join this needed area of study.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of Russian in order to successfully apply their fluency.

Students are also encouraged to participate in UWM's study abroad (<https://uwm.edu/cie/study-abroad/>) program with destinations including Saratov, Moscow, St. Petersburg, and Vladimir. Some students choose just a short immersion while others go abroad for a semester or even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Requirements

At least 9 credits must be completed in advanced-level courses in residence at UWM; at least 6 of these credits must be in the Russian curricular area. Students must attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, the College requires that students attain a 2.0 GPA on all minor credits attempted, including transfer work. Minor courses taken outside the Russian curricular area count in the minor GPAs.

Students are strongly encouraged to pursue study abroad in Russia and may apply transfer credits from an approved study abroad program toward their degree requirements. Students interested in doing extensive advanced-level coursework at a Russian university should contact the program coordinator to discuss the College's residency requirement.

The Russian minor requires completion of four semesters of college-level Russian (through RUSSIAN 202) or equivalent preparation. Credits earned at UWM in satisfying this requirement count in the minor GPA. In addition, minors must complete 18 credits as follows:

Code	Title	Credits
<b>Core</b>		
RUSSIAN 310	Advanced Russian Reading and Conversation:	3
RUSSIAN 311	Contemporary Russian Language:	3
Select 6 additional credits in the Russian curricular area		6
<b>Electives</b>		
Select 6 credits in Russian and/or courses selected from the list of cross-listed courses below		6
<b>Total Credits</b>		<b>18</b>

### Cross-listed Courses

The following courses are approved to satisfy the requirements of the Russian minor. Please contact the program coordinator for the most up-to-date list of approved courses or to request approval for Russian-related courses not on this list.

Code	Title	Credits
ENGLISH 316	World Cinema: (Russian Cinema)	3
ETHNIC 250	Selected Topics in Ethnic Studies: (Gender and Ethnicity in and After the USSR)	3
HIST 341	Imperial Russia	3
HIST 343	Russia Since 1917	3
INTLST 550	Senior Seminar in International Studies: (Russia in Transition: Media and Values)	3
POL SCI 310	Russian and Post-Soviet Politics	3

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor"

### Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Fred Anapol	Professor	PhD			✓
Kalman Applbaum	Professor	PhD	Harvard University	✓	
Ingrid Jordt Applbaum	Associate Professor	PhD	Harvard University	✓	
Bettina Arnold	Professor	PhD	Harvard University	✓	
Erica Bornstein	Professor	PhD	University of California, Irvine	✓	
Paul Brodwin	Professor	PhD	Harvard University	✓	
Benjamin Campbell	Associate Professor	PhD	Harvard University	✓	
J. Patrick Gray	Professor	PhD	University of Colorado		✓
Sidney M. Greenfield	Professor	PhD			✓

button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Anthropology

Anthropology is the study of human beings and their cultures, past and present, throughout the world. The discipline examines and compares the world's culture patterns in all their variety and studies humans as biological organisms. Through archaeology, it attempts to shed light on the long history and evolution of humans and their ways of life. In these pursuits, anthropologists favor comparative and evolutionary perspectives. As a result, anthropological studies are wide-ranging with respect to topic and far-reaching with respect to both space and time.

## Programs

- Anthropology, BA (p. 868)
- Anthropology, Minor (p. 872)
- Anthropology, MS (p. 874)
- Anthropology, MS/Library and Information Science, MLIS (p. 876)
- Anthropology, PhD (p. 877)
- Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 879)
- Digital Cultures, Graduate Certificate (p. 879)
- Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 881)
- Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Anthropology) (p. 882)
- Museum Studies, Graduate Certificate (p. 883)

Jean Hudson	Associate Professor	PhD	University of California, Santa Barbara	✓	
Robert J. Jeske	Professor	PhD	Northwestern University	✓	
Donald Kurtz	Professor	PhD			✓
Thomas Malaby	Professor, Chair	PhD	Harvard University	✓	
Emily Middleton	Associate Professor	PhD	New York University	✓	
Brian Nicholls	Research Specialist	MS	University of Wisconsin-Milwaukee		
John D. Richards	Associate Scientist	PhD	University of Wisconsin-Milwaukee	✓	
Patricia Richards	Associate Scientist	PhD	University of Wisconsin-Milwaukee	✓	
R. Jason Sherman	Associate Professor	PhD	University of Michigan - Ann Arbor	✓	
Neil C. Tappen	Professor	PhD			✓
Trudy Turner	Distinguished Professor	PhD	New York University	✓	
William Washabaugh	Professor	PhD			✓
Edward Wellin	Professor	PhD			✓
W. Warner Wood	Associate Professor	PhD	University of Illinois at Champaign-Urbana	✓	

## Anthropology, BA

Anthropology is the scientific study of human beings and their cultures across time and space. In the broadest sense, anthropology is about how the human species came to be, how it developed myriad ways of living in the world, and how those ways may change in the future. It is the major most closely associated with archaeology.

Anthropology is a unique field that combines elements of social science and natural science. Students will find themselves in all types of settings - out in the field collecting physical samples, in a lab analyzing fossils and specimens, interviewing individuals and groups to collect oral histories, in the library and community researching, and in the classroom learning how to fit all of the pieces of evidence into a cohesive theory.

Students at UWM will be exposed to all types of anthropological work. Some may find themselves more drawn to the "people" side of things and gravitate more towards electives that focus on culture and societal structures. Social anthropologists may examine issues such as workplace behavior, religious rituals, art, family structures or gender relations. Others may find linguistic anthropology - the study of the development of languages - more interesting. Students who have always envisioned themselves digging up artifacts will find archaeology or biological anthropology of most interest.

Regardless of specialization, hands-on experience is critical. UWM offers all types of field experience and research opportunities, locally and at spots around the globe.

### Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they

entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		

#### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)
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#### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits	3
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### Humanities

Select 6 credits	6
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**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	9
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		
	Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
<b>Cultural Diversity</b>		
	Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College

requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Anthropology Major Requirements

Students majoring in anthropology can select from a wide variety of courses organized under three subfields:

- Sociocultural Anthropology
- Archaeology
- Biological Anthropology

Although majors take some coursework in each of the three subfields, they are encouraged to shape their own programs to meet individual needs and interests. Students majoring in anthropology must earn a GPA of 2.0 or better in anthropology courses attempted at UWM. In addition, the College of Letters and Science requires that students attain a 2.0 or better GPA in all anthropology courses attempted, including any transfer work. The major in anthropology requires 36 credits within the department. At least 15 credits in advanced-level courses (numbered 300 or above) must be taken in residence at UWM.

Code	Title	Credits
<b>Required</b>		
ANTHRO 101	Introduction to Anthropology: Human Origins	3
ANTHRO 102	Introduction to Anthropology: Culture and Society	3
ANTHRO 103	Digging Up the Past: Approaches to Archaeology	3
ANTHRO 460	Anthropological Theory <sup>1</sup>	3
9-15 credits satisfying the following requirements <sup>2</sup>		9-15
1 methods course		
1 course satisfying the research requirement		
1 course in each of the three subfields		
6-15 additional ANTHRO credits		6-15
<b>Total Credits</b>		<b>36</b>

<sup>1</sup> Only seniors may enroll in ANTHRO 460, and it is recommended that they do so after having completed all other anthropology course requirements.

<sup>2</sup> Methods courses and research requirement courses may overlap with each other or with one of the three ANTHRO subfields. See tables below for additional details.

**Methods Courses**

Code	Title	Credits
ANTHRO 405	Forensic Anthropology <sup>1</sup>	3
ANTHRO 497	Study Abroad: <sup>1</sup>	1-12
ANTHRO 525	Zooarchaeology: Analysis of Faunal Remains <sup>1</sup>	3
ANTHRO 535	Analysis of Archaeological Ceramics <sup>1</sup>	3
ANTHRO 560	Introduction to Research Methods in Anthropology <sup>1</sup>	3
ANTHRO 561	Techniques and Problems in Ethnography	3
ANTHRO 562	Techniques and Problems in Archaeology	3
ANTHRO 566	Archaeological Analysis and Report Preparation: <sup>1</sup>	3-6
ANTHRO 567	Archaeological Field School	3-6
ANTHRO 568	Introduction to Anthropological Statistics	3

<sup>1</sup> This course may also satisfy a research and/or subfield requirement in the Anthropology major. However, no single course may count for more than two requirements.

**Research Requirement Courses**

Code	Title	Credits
ANTHRO 401	Primate Populations <sup>1</sup>	3
ANTHRO 497	Study Abroad: <sup>1</sup>	1-12
ANTHRO 525	Zooarchaeology: Analysis of Faunal Remains	3
ANTHRO 535	Analysis of Archaeological Ceramics	3
ANTHRO 560	Introduction to Research Methods in Anthropology	3
ANTHRO 566	Archaeological Analysis and Report Preparation: <sup>1</sup>	3-6

<sup>1</sup> This course may also satisfy a methods and/or subfield requirement in the Anthropology major. However, no single course may count for more than two requirements.

**Three Anthropology Subfields****Biological Anthropology**

Code	Title	Credits
ANTHRO 301	Human Evolution and Variation	3
ANTHRO 401	Primate Populations <sup>1</sup>	3
ANTHRO 402	Primate Evolution	3
ANTHRO 403	The Human Skeleton	3
ANTHRO 404	Human Biological Variation	3
ANTHRO 405	Forensic Anthropology	3
ANTHRO 406	Evolutionary Biology & Human Diseases	3
ANTHRO 407	Neuroanthropology	3
ANTHRO 408	Hormones and Behavior	3

<sup>1</sup> This course may also satisfy a methods and/or research requirement in the Anthropology major; however, no single course may count for more than two requirements.

**Archaeology**

Code	Title	Credits
ANTHRO 304	Violence and Warfare in Prehistory	3
ANTHRO 305	The Celtic World	3
ANTHRO 306	European Archaeology	3
ANTHRO 307	World Archaeology: Foundations of Civilization	3
ANTHRO 308	Archaeology of North America	3
ANTHRO 309	Archaeology of Central and South America	3
ANTHRO 310	Archaeology of Middle America	3
ANTHRO 311	The World of the Ancient Maya	3
ANTHRO 313	Archaeology of the American Southwest	3
ANTHRO 420	Power and Ideology in Archaeology	3
ANTHRO 421	Cities in the Ancient World	3
ANTHRO 424	Ethnoarchaeology and Experimental Archaeology	3
ANTHRO 425	Hunter-Gatherer Lifeways: Past and Present	3
ANTHRO 426	Who Owns the Past?	3
ANTHRO 465	Historic Preservation in Archaeology	3
ANTHRO 466	Historical Archaeology	3
ANTHRO 501	Archaeology of Death	3
ANTHRO 502	Lithic Analysis: Stone Tools and Human Behavior	3
ANTHRO 525	Zooarchaeology: Analysis of Faunal Remains <sup>1</sup>	3
ANTHRO 535	Analysis of Archaeological Ceramics <sup>1</sup>	3
ANTHRO 565	Seminar in Regional Archaeology:	3

<sup>1</sup> This course may also satisfy a methods and/or research requirement in the Anthropology major; however, no single course may count for more than two requirements.

**Sociocultural Anthropology**

Code	Title	Credits
ANTHRO 302	Anthropology and Popular Culture	3
ANTHRO 314	American Indian Societies and Cultures	3
ANTHRO 320	Peoples and Cultures of Africa	3
ANTHRO 322	Europe in Anthropological Perspective	3
ANTHRO 325	Japanese Culture and Society	3
ANTHRO 326	Peoples and Cultures of South Asia	3
ANTHRO 328	Comparative Studies of Music, Race, and Gender in Nationalism	3
ANTHRO 335	American Indians of the Southeast	3
ANTHRO 340	Cultures of Online Games and Virtual Worlds	3
ANTHRO 349	Seminar in Ethnography and Cultural Processes	3

ANTHRO 351	Anthropological Theories of Religion	3
ANTHRO 354	Anthropology, Aesthetics, and Art	3
ANTHRO 355	Globalization, Culture, and Environment	3
ANTHRO 400	Human Sociobiology	3
ANTHRO 431	Cities and Culture	3
ANTHRO 439	Culture and Global Health	3
ANTHRO 440	Medical Anthropology	3
ANTHRO 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3
ANTHRO 442	Humanitarianism in Global Perspective	3
ANTHRO 443	Medicine and Pharmaceuticals in the Global Age	3
ANTHRO 445	Psychological Anthropology	3
ANTHRO 446	The Child in Different Cultures	3
ANTHRO 447	The Global Politics of Human Rights	3
ANTHRO 448	Cultural and Human Ecology	3
ANTHRO 449	The Human Economy	3
ANTHRO 450	Political Anthropology	3
ANTHRO 540	Applications of Anthropology	3
ANTHRO 543	Cross-Cultural Study of Religion	3
ANTHRO 544	Religious Giving in Anthropological Perspective	3
ANTHRO 649	Ethnography of Institutions	3

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and

- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Anthropology, Minor

Anthropology is the scientific study of human beings and their cultures across time and space. In the broadest sense, anthropology is about how the human species came to be, how it developed myriad ways of living in the world, and how those ways may change in the future. It is the major most closely associated with archaeology.

Anthropology is a unique field that combines elements of social science and natural science. Students will find themselves in all types of settings - out in the field collecting physical samples, in a lab analyzing fossils and specimens, interviewing individuals and groups to collect oral histories, in the library and community researching, and in the classroom learning how to fit all of the pieces of evidence into a cohesive theory.

Students at UWM will be exposed to all types of anthropological work. Some may find themselves more drawn to the "people" side of things and gravitate more towards electives that focus on culture and societal structures. Social anthropologists may examine issues such



as workplace behavior, religious rituals, art, family structures or gender relations. Others may find linguistic anthropology - the study of the development of languages - more interesting. Students who have always envisioned themselves digging up artifacts will find archaeology or biological anthropology of most interest.

Regardless of specialization, hands-on experience is critical. UWM offers all types of field experience and research opportunities, locally and at spots around the globe.

## Requirements

The anthropology minor requires 18 credits within the department, including the following:

Code	Title	Credits
ANTHRO 101	Introduction to Anthropology: Human Origins	3
ANTHRO 102	Introduction to Anthropology: Culture and Society	3
ANTHRO 103	Digging Up the Past: Approaches to Archaeology	3
9 credits at the 300-level or above		9
<b>Total Credits</b>		<b>18</b>

Students must earn 9 credits in advanced-level courses (numbered 300 or above) taken in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. If the student is interested in transitioning from a minor to a major, courses that satisfy the methods and/or research requirements in the major have been marked in the subfield tables below.

### Three Anthropology Subfields

#### Biological Anthropology

Code	Title	Credits
ANTHRO 301	Human Evolution and Variation	3
ANTHRO 401	Primate Populations <sup>1</sup>	3
ANTHRO 402	Primate Evolution	3
ANTHRO 403	The Human Skeleton	3
ANTHRO 404	Human Biological Variation	3
ANTHRO 405	Forensic Anthropology	3
ANTHRO 406	Evolutionary Biology & Human Diseases	3
ANTHRO 407	Neuroanthropology	3
ANTHRO 408	Hormones and Behavior	3

<sup>1</sup> This course may also satisfy a methods and/or research requirement in the Anthropology major; however, no single course may count for more than two requirements.

#### Archaeology

Code	Title	Credits
ANTHRO 304	Violence and Warfare in Prehistory	3
ANTHRO 305	The Celtic World	3
ANTHRO 306	European Archaeology	3
ANTHRO 307	World Archaeology: Foundations of Civilization	3
ANTHRO 308	Archaeology of North America	3

ANTHRO 309	Archaeology of Central and South America	3
ANTHRO 310	Archaeology of Middle America	3
ANTHRO 311	The World of the Ancient Maya	3
ANTHRO 313	Archaeology of the American Southwest	3
ANTHRO 420	Power and Ideology in Archaeology	3
ANTHRO 421	Cities in the Ancient World	3
ANTHRO 424	Ethnoarchaeology and Experimental Archaeology	3
ANTHRO 425	Hunter-Gatherer Lifeways: Past and Present	3
ANTHRO 426	Who Owns the Past?	3
ANTHRO 465	Historic Preservation in Archaeology	3
ANTHRO 466	Historical Archaeology	3
ANTHRO 501	Archaeology of Death	3
ANTHRO 502	Lithic Analysis: Stone Tools and Human Behavior	3
ANTHRO 525	Zooarchaeology: Analysis of Faunal Remains <sup>1</sup>	3
ANTHRO 535	Analysis of Archaeological Ceramics <sup>1</sup>	3
ANTHRO 565	Seminar in Regional Archaeology:	3

<sup>1</sup> This course may also satisfy a methods and/or research requirement in the Anthropology major; however, no single course may count for more than two requirements.

#### Sociocultural Anthropology

Code	Title	Credits
ANTHRO 302	Anthropology and Popular Culture	3
ANTHRO 314	American Indian Societies and Cultures	3
ANTHRO 320	Peoples and Cultures of Africa	3
ANTHRO 322	Europe in Anthropological Perspective	3
ANTHRO 325	Japanese Culture and Society	3
ANTHRO 326	Peoples and Cultures of South Asia	3
ANTHRO 328	Comparative Studies of Music, Race, and Gender in Nationalism	3
ANTHRO 335	American Indians of the Southeast	3
ANTHRO 340	Cultures of Online Games and Virtual Worlds	3
ANTHRO 349	Seminar in Ethnography and Cultural Processes	3
ANTHRO 351	Anthropological Theories of Religion	3
ANTHRO 354	Anthropology, Aesthetics, and Art	3
ANTHRO 355	Globalization, Culture, and Environment	3
ANTHRO 400	Human Sociobiology	3
ANTHRO 431	Cities and Culture	3
ANTHRO 439	Culture and Global Health	3
ANTHRO 440	Medical Anthropology	3
ANTHRO 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3
ANTHRO 442	Humanitarianism in Global Perspective	3
ANTHRO 443	Medicine and Pharmaceuticals in the Global Age	3
ANTHRO 445	Psychological Anthropology	3

ANTHRO 446	The Child in Different Cultures	3
ANTHRO 447	The Global Politics of Human Rights	3
ANTHRO 448	Cultural and Human Ecology	3
ANTHRO 449	The Human Economy	3
ANTHRO 450	Political Anthropology	3
ANTHRO 540	Applications of Anthropology	3
ANTHRO 543	Cross-Cultural Study of Religion	3
ANTHRO 544	Religious Giving in Anthropological Perspective	3
ANTHRO 649	Ethnography of Institutions	3

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Anthropology, MS

The Department of Anthropology offers programs of graduate study designed to provide a broad background in all significant facets of the discipline—biological as well as cultural, analytic as well as descriptive—while still encouraging specialization. It provides training both for students interested in an academic career in anthropology and for those concerned with practical issues approached from the integrative perspective of anthropology.

The department, in cooperation with the Milwaukee Public Museum, also offers a program leading to a Certificate in Museum Studies. The Milwaukee Public Museum, the fourth largest natural history museum in the country, is the site for methods courses that provide the student practical experience in museum work and for courses in the history and theory of museum exhibits. Each student's program of studies includes training in anthropological theory and methods, issues and problems in cultural anthropology, archaeology, anthropological linguistics and physical anthropology, as well as topics that focus on the student's area of particular interest.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in anthropology comparable to that at UWM.
2. Reason Statement.
3. Three letters of recommendation.
4. A writing sample such as a relevant term paper, article submission, etc.

Applicants without an undergraduate major in anthropology can meet the first requirement in either of two ways:

1. By having completed junior-level courses in three of the four subfields of anthropology (archaeology, biological anthropology, cultural anthropology, or linguistics) with grades of B or better. These courses may be taken at any accredited college or university if they were not part of the applicant's undergraduate career. Applicants also may take them as special students at UWM. Applicants planning to take such courses should check with the Director of Graduate Studies to verify that the courses will be acceptable.
2. Applicants lacking courses in anthropology may be admitted to the program and be allowed to take the core classes and advanced seminars without deficiencies under certain conditions. For example, an applicant with an outstanding GPA who has an undergraduate major closely related to their proposed field of specialization could be admitted under this option.

Application deadlines for admission to the program are January 15th for the following Fall semester and September 15th for the following Spring semester. Applicants requesting financial assistance may have other deadlines to be considered eligible. Contact the department's Director of Graduate Studies for specific financial aid deadlines.

## Credits and Courses

Students in the Master's degree program in Anthropology are required to take a minimum of 30 credits, 15 of which must be obtained in courses numbered 700 or above. Required courses differ by concentration (requirements for students seeking to acquire a Certificate in Museum Studies are listed on that page).

### Archaeology Concentration

Code	Title	Credits
<b>Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Methods</b>		
ANTHRO 568	Introduction to Anthropological Statistics	3
Select one of the following: 3		
ANTHRO 380	Anthropological Applications of GIS	
ANTHRO 501	Archaeology of Death	
ANTHRO 525	Zooarchaeology: Analysis of Faunal Remains	

ANTHRO 535	Analysis of Archaeological Ceramics	
ANTHRO 562	Techniques and Problems in Archaeology	
ANTHRO 566	Archaeological Analysis and Report Preparation:	
ANTHRO 567	Archaeological Field School	
ANTHRO 768	Topics in Advanced Research Design in Anthropology	
Or an alternative approved by the advisor and the Director of Graduate Studies		
<b>Advanced Seminar</b>		
ANTHRO 763	Professionalism in Anthropology	3
<b>Electives</b>		
Select 12 credits		12
<b>Total Credits</b>		<b>30</b>

### Biological Anthropology Concentration

Code	Title	Credits
<b>Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Methods</b>		
ANTHRO 568	Introduction to Anthropological Statistics	3
Course approved by the advisor and the Director of Graduate Studies		3
<b>Advanced Seminar</b>		
Course approved by the advisor and the Director of Graduate Studies		3
<b>Electives</b>		
Select 12 credits		12
<b>Total Credits</b>		<b>30</b>

### Cultural Anthropology Concentration

Code	Title	Credits
<b>Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Methods</b>		
Select two of the following:		6
ANTHRO 560	Introduction to Research Methods in Anthropology	
ANTHRO 561	Techniques and Problems in Ethnography	
ANTHRO 568	Introduction to Anthropological Statistics	
<b>Advanced Seminar</b>		
ANTHRO 940	Seminar in Problems in Cultural Anthropology:	3
<b>Electives</b>		

Select 12 credits	12
<b>Total Credits</b>	<b>30</b>

### Anthropology MS with Museum Studies Certificate

Students completing any of the three above concentrations can also earn the Graduate Certificate in Museum Studies as outlined below. The student must select methods, advanced seminar, and electives courses appropriate to their concentration in consultation with their advisor. 21 credits are required for the Anthropology, MS<sup>1</sup>, and 18 credits must be completed for the Certificate program, for a total of 39 credits.

Code	Title	Credits
<b>Anthropology Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Anthropology Methods</b>		
Select any one of the methods courses listed above from any of the three concentrations		3
<b>Anthropology Advanced Seminar</b>		
Select any one of the advanced seminar courses listed above from any of the three concentrations		3
<b>Anthropology Graduate Electives</b>		
Select 6 credits		6
<b>Museum Studies Core</b>		
ANTHRO 620G	Museum Fundamentals	3
ANTHRO 720	History and Theory of Museums	2
ANTHRO 721	Administration and Organization of Museums	3
ANTHRO 722	Visitor Experience Design in Museums	3
ANTHRO 723	Museum Collections Management and Curation	3
ANTHRO 725	Professionalism Capstone in Museum Studies	1
<b>Museum Studies Internship (or alternative course)</b>		
ANTHRO 621G	Internship in Museum Studies	3
<b>Total Credits</b>		<b>39</b>

<sup>1</sup> Students may request a waiver for any of the above required courses for the Anthropology MS degree except the advanced seminar. To request a waiver, a student must submit a letter to the Graduate Studies Committee. Requests must be accompanied by documentation demonstrating that the student is competent in the subject area of the course for which the waiver is sought. A waived course must be replaced by an anthropology course numbered 700 or above. Museum Studies courses cannot be waived.

Students must maintain a B (3.0) average or better overall. The three core courses must be completed with an average of 3.0 or better. Students with a grade below a B in a core course subsequently accepted into the PhD program must retake the course until they achieve a grade of B or better.

A thesis is required of all students; students may apply up to 6 credits of Research/Thesis courses toward meeting the minimum credits for the degree. The thesis must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the thesis to the

Graduate School and a signed, unbound “hard” copy to the Department of Anthropology.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student selects an advisor, in consultation with the Director of Graduate Studies, by the end of the first semester of the program.

### Thesis Defense

The student must pass an oral thesis defense. The examination committee must consist of at least three individuals, with a majority being members of the Anthropology Department.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Anthropology, MS/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

### MLIS/MS Anthropology

The MLIS/MS Anthropology Coordinated Degree Program (51 credits) prepares students for positions as curators of museum libraries; and as information specialists and researchers for local history collections and state historical societies.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

### Degree Requirements

Students enrolled in this program concurrently pursue the MS degree in Anthropology (p. 874) (21 credits in Anthropology—9 fewer elective credits) and the MLIS degree (p. 493) (30 credits in SOIS). Candidates for the coordinated degree program will be expected to fulfill the degree requirements of both programs. Degrees will be awarded simultaneously.

## Credits and Courses

Students in the Master’s degree program in Anthropology are required to take a minimum of 30 credits, some of which are obtained by taking required courses. Required courses differ by concentration (requirements for students seeking to acquire a Certificate in Museum Studies are listed on that page).

### Archaeology Concentration

Code	Title	Credits
<b>Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Methods</b>		
ANTHRO 568	Introduction to Anthropological Statistics	3
Select one of the following:		3
ANTHRO 380	Anthropological Applications of GIS	
ANTHRO 501	Archaeology of Death	
ANTHRO 525	Zooarchaeology: Analysis of Faunal Remains	
ANTHRO 535	Analysis of Archaeological Ceramics	
ANTHRO 562	Techniques and Problems in Archaeology	
ANTHRO 566	Archaeological Analysis and Report Preparation:	
ANTHRO 567	Archaeological Field School	
ANTHRO 768	Topics in Advanced Research Design in Anthropology	
Or an alternative approved by the advisor and the Director of Graduate Studies		
<b>Advanced Seminar</b>		
ANTHRO 763	Professionalism in Anthropology	3
<b>Electives</b>		

Select 12 credits	12
<b>Total Credits</b>	<b>30</b>

## Biological Anthropology Concentration

Code	Title	Credits
<b>Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Methods</b>		
ANTHRO 568	Introduction to Anthropological Statistics	3
Course approved by the advisor and the Director of Graduate Studies		
3		
<b>Advanced Seminar</b>		
Course approved by the advisor and the Director of Graduate Studies		
3		
<b>Electives</b>		
Select 12 credits		12
<b>Total Credits</b>		<b>30</b>

## Cultural Anthropology Concentration

Code	Title	Credits
<b>Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Methods</b>		
Select two of the following:		6
ANTHRO 560	Introduction to Research Methods in Anthropology	
ANTHRO 561	Techniques and Problems in Ethnography	
ANTHRO 568	Introduction to Anthropological Statistics	
<b>Advanced Seminar</b>		
ANTHRO 940	Seminar in Problems in Cultural Anthropology:	3
<b>Electives</b>		
Select 12 credits		12
<b>Total Credits</b>		<b>30</b>

Students may request a waiver for any of the above required courses except the advanced seminar. To request a waiver, a student must submit a letter to the Graduate Studies Committee. Requests must be accompanied by documentation demonstrating that the student is competent in the subject area of the course for which the waiver is sought. A waived course must be replaced by an anthropology course numbered 700 or above.

Students must maintain a B (3.0) average or better overall. The three core courses must be completed with an average of 3.0 or better. Students with a grade below a B in a core course subsequently accepted into the Ph.D. program must retake the course until they achieve a grade of B or better.

A thesis is required of all students; students may apply up to 6 credits of Research/Thesis courses toward meeting the minimum credits for the degree. The thesis must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the thesis to the Graduate School and a signed, unbound "hard" copy to the Department of Anthropology.

## Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

## Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Anthropology, PhD

The Department of Anthropology offers programs of graduate study designed to provide a broad background in all significant facets of the discipline—biological as well as cultural, analytic as well as descriptive—while still encouraging specialization. It provides training both for students interested in an academic career in anthropology and for those concerned with practical issues approached from the integrative perspective of anthropology.

The department, in cooperation with the Milwaukee Public Museum, also offers a program leading to a Certificate in Museum Studies. The Milwaukee Public Museum, the fourth largest natural history museum in the country, is the site for methods courses that provide the student practical experience in museum work and for courses in the history and theory of museum exhibits. Each student's program of studies includes training in anthropological theory and methods, issues and problems in cultural anthropology, archaeology, anthropological linguistics and physical anthropology, as well as topics that focus on the student's area of particular interest.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following departmental requirements to be considered for admission to the program:

1. A general master's degree in anthropology or equivalent preparation without the master's degree. An applicant with a master's degree in another field may be admitted if the student has a grade point

average of 3.0 (4.0 scale) in graduate work and is approved by the departmental Graduate Admissions Committee.

2. Reason Statement.
3. Three letters of recommendation.
4. A writing sample such as a relevant term paper, article submission, etc.

Applicants are accepted into the PhD program only if a faculty member agrees to serve as major professor. Applicants are encouraged to contact the faculty member they wish to work with prior to applying to the program. The applicant's statement of purpose should identify their proposed major professor.

Application deadlines for admission to the program are January 15th for the following fall semester and September 15th for the following spring semester. Applicants requesting financial assistance may have other deadlines to be considered eligible. Contact the department's graduate advisor for specific financial aid deadlines.

## Reapplication

A student who receives the master's degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

## Credits and Courses

Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM. A student lacking any of the courses (or equivalents taken elsewhere) required to attain a Master's degree in their major area of concentration must complete these courses as part of their PhD work.

Code	Title	Credits
<b>Core</b>		
ANTHRO 801	A Survey of Physical Anthropology	3
ANTHRO 802	Perspectives on Prehistory	3
ANTHRO 803	Survey of Cultural Anthropology	3
<b>Methods</b>		
Select one of the following:		3
ANTHRO 380	Anthropological Applications of GIS	
ANTHRO 501	Archaeology of Death	
ANTHRO 525	Zooarchaeology: Analysis of Faunal Remains	
ANTHRO 535	Analysis of Archaeological Ceramics	
ANTHRO 560	Introduction to Research Methods in Anthropology	
ANTHRO 561	Techniques and Problems in Ethnography	
ANTHRO 562	Techniques and Problems in Archaeology	
ANTHRO 566	Archaeological Analysis and Report Preparation:	
ANTHRO 567	Archaeological Field School	
ANTHRO 568	Introduction to Anthropological Statistics	
ANTHRO 768	Topics in Advanced Research Design in Anthropology	
Other courses with the approval of the advisor and Director of Graduate Studies		

## Advanced Seminar

Select one of the following: 3

ANTHRO 940 Seminar in Problems in Cultural Anthropology:

ANTHRO 942 Seminar in Prehistory and Archaeology:

Other courses with the approval of the advisor and Director of Graduate Studies

## Foreign Language/Specialization

A foreign language or specialized scholarly skill

**Total Credits** 15

## Foreign Language or Specialized Scholarly Skill

The candidate may satisfy this requirement by demonstrating one of the following:

- Proficiency in a foreign language useful in the student's career.
- Proficiency in mathematical, statistical, or computer skills.
- Proficiency in other skills that meet departmental approval.

## Additional Requirements

### Doctoral Preliminary Examination and Dissertation Proposal Defense

The candidate must pass an oral doctoral preliminary examination as one of the qualifications for achieving dissertator status. Candidates choose two to four topics in consultation with their advisor for the Preliminary Examination. The topics must be broader than, but related to, the focus of the candidate's proposed dissertation research. The topics must be approved by the Department's Graduate Studies Committee and the Department faculty. The preliminary examination must be passed within five years of initial enrollment for a student to be eligible to continue in the program.

The candidate must pass a formal dissertation proposal hearing prior to starting dissertation research.

### Dissertation

The candidate must prepare a dissertation reporting in the candidate's own style the results of an original research investigation representing a substantive creative contribution.

The dissertation must be formatted in accord with Graduate School requirements. Students will submit an electronic copy of the dissertation to the Graduate School and a signed, unbound "hard" copy to the Department of Anthropology.

### Dissertation Defense

As the final step toward the degree, the candidate must pass an oral examination before their doctoral committee in defense of the dissertation.

### Residence

The student must meet minimum Graduate School residence requirements.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

## Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Anthropology)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

### Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

### Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
ANTHRO 403	The Human Skeleton	3
ANTHRO 405	Forensic Anthropology	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3

BMS 610 or HCA 212	Pharmacology Drugs Used and Abused	3
<b>Total Credits</b>		<b>24</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/ CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/ CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 404	Human Biological Variation	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
CHEM 194	First-Year Seminar:	3
CHEM 524	Instrumental Analysis	3
CHEM 602	Biochemistry: Cellular Processes	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

## Digital Cultures, Graduate Certificate

The graduate certificate in Digital Cultures enhances digital literacies at the graduate level through a program that engages with critical approaches across disciplines in the humanities, social sciences, and professions. Enrollment in the certificate is open to any student who has been admitted to a UWM graduate program.

The certificate is managed by an interdisciplinary committee with representation from Anthropology, History, English, the Center for 21<sup>st</sup> Century Studies, and the UWM Libraries Digital Humanities Lab, among other related areas.

For more information, please contact the program director, Dr. Stuart Moulthrop (moulthro@uwm.edu).

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

Students wishing to pursue the Digital Cultures certificate must apply using the Graduate School's online admissions application system. There will be two admissions cycles per year, with deadlines of December 15 and June 1. Only students concurrently enrolled in a UWM graduate degree program and those who already hold a UWM graduate degree may be admitted to the certificate.

## Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The Digital Cultures certificate requires completion of a minimum of 15 graduate credits.

Students must complete at least 6 credits of Required Core Courses, listed below. Students must take DAC 700 once, and must take DAC 701 and DAC 788 at least once each. Students will repeat either DAC 701 or DAC 788 one additional time to complete the 6 required core credits. Students may take additional repeats of DAC 701 or DAC 788, but credits in those courses will not count toward the required or elective credits for the certificate.

In addition, students must complete an additional 9 credits selected from the list of eligible elective courses below. Of those electives, at least 3 credits must be at the 700-level or above and students must take at least two different course numbers to complete their electives. Up to 3 credits of independent study may be approved by the director of the Digital Cultures certificate for inclusion among the electives. Approval should be noted on the student's program of study before application for certificate conferral.

Elective course substitutions may be approved by the certificate director on a case-by-case basis.

Code	Title	Credits
<b>Required Core Courses</b>		
DAC 700	Core Seminar in Digital Cultures	3
DAC 701	Digital Cultures Colloquium	1
DAC 788	Digital Cultures Practicum	1
Repeat DAC 701 or DAC 788 for one additional credit		1
<b>Elective Courses</b>		
ANTHRO 340	Cultures of Online Games and Virtual Worlds	9
ANTHRO 380	Anthropological Applications of GIS	
ANTHRO 744	Theories of Social Action: Theater, Ritual, Game	
ARCH 583	Emerging Digital Technology:	
ARCH 742	Professional Practice II	
ARCH 771	Representation I	
ARCH 772	Representation II	
ART 312	Intermediate Digital Studio:	
ART 313	Creative Coding	
ART 316	Creative Interfaces	

ART 317	3D Environments and XR
ART 318	Creative Electronics
ART 327	Digital Media Workshop:
ART 412	Advanced Creative Technologies
ART 418	Advanced Electronics and Sculpture:
ART 426	Motion Graphics
ART 433	Digital Imaging for Fabric
ART 526	Research in Universal Design and Fabrication
ART 452	Contemporary Issues in Photography (Topics: Photography and Digital Imaging; Studio Lighting)
ART 456	Advanced Photography & Imaging:
ARTHIST 376	History and Theory of New Media Art
COMMUN 813	Seminar in Mediated Communication
COMMUN 873	The Digital Mirror
COMMUN 893	Rhetoric of/and the Internet
DAC 661	Digital Engagement Seminar
ENGLISH 439	Information Design
ENGLISH 709	Rhetoric, Writing, and Information Technology
ENGLISH 742	Media Studies
ENGLISH 887	Seminar in Digital Studies:
FILM 420	Intermediate Media Arts Module: (Topics: Observational Documentary; Experimental Documentary; Appropriated Media; Landscapes/Filmscapes; Visual Effects)
FILM 763	Experimental Documentary
FILM 764	Observational Documentary
FILM 782	Visual Effects
HIST 450	The History of Milwaukee
HIST 715	Research Methods in Local History
HIST 717	History and the New Media
INFOST 661	Information Ethics
INFOST 670	Instructional Technologies
INFOST 682	Digital Libraries
INFOST 685	Electronic Publishing and Web Design
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning
URBPLAN 792	Using Urban Geographic Information Systems (GIS) for Planning
WGS 500	Advanced Social Science Seminar in Women's and Gender Studies: (Topics: Digital Cultures and Sexualities)

**Total Credits** **15**

NOTE: Once approved, the courses FILM 763, FILM 764, and FILM 782 will replace the subtopics of FILM 420 at the graduate level. Additional 700-level Film courses will be proposed for two remaining subtopics of FILM 420, Filmscapes/Landscapes and Appropriated Media.



## Additional Requirements

### Transfer Credit

Outside transfer credits (graduate level work taken outside of UW-Milwaukee) are not permitted to count for this certificate program. However, based on the current UWM Transfer Credit Policy rules, UWM graduate courses may be eligible to:

1. Transfer into this certificate if they have not been used to satisfy any degree or certificate requirements, OR
2. Double-count toward a UWM graduate degree program and this certificate, OR
3. Double-count between this certificate and one other UWM graduate certificate.

### Grade Point Average Requirement

Students wishing to earn a Digital Cultures certificate must complete the required 15 graduate credit hours with an overall GPA of 2.75 or better.

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Anthropology)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

### Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

### Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3
ANTHRO 403 or ANTHRO 404	The Human Skeleton Human Biological Variation	3
BMS 610 or HCA 212	Pharmacology Drugs Used and Abused	3

Select one of the following:

3-4

BIO SCI 539	Laboratory Techniques in Molecular Biology
CHEM 602	Biochemistry: Cellular Processes
BMS 560 & BMS 561	Molecular and Genetic Diagnostics and Molecular Diagnostics Laboratory

**Total Credits****21-22**

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

Code	Title	Credits
ANTHRO/BMS/CHEM/CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 405	Forensic Anthropology	3
CHEM 194	First-Year Seminar:	3
CHEM 524	Instrumental Analysis	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1

## Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Anthropology)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

### Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM,

but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

### Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

Code	Title	Credits
ANTHRO/BMS/CHEM/CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/CRM JST 481	Criminalistics	3
CHEM 524	Instrumental Analysis	3
BMS 610	Pharmacology	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3
ANTHRO 403 or ANTHRO 404	The Human Skeleton Human Biological Variation	3
<b>Total Credits</b>		<b>21</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

Code	Title	Credits
ANTHRO/BMS/CHEM/CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 405	Forensic Anthropology	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
CHEM 194	First-Year Seminar: (with forensic subtitle)	3
CHEM 602	Biochemistry: Cellular Processes	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

# Museum Studies, Graduate Certificate

The Museum Studies Program was established in 1963 as a cooperative venture between UW-Milwaukee and the Milwaukee Public Museum. The goal of the program is to provide, in a museum environment, the basic scholarship and functional training to equip the student with the skills necessary to assume professional entry-level museum positions in:

- museums
- galleries
- archives
- historical societies
- related institutions

Coursework is structured to develop a high degree of professionalism and responsibility, skills in problem solving, critical thinking and evaluation, writing, oral presentation, decision-making, and teamwork.

The program stresses professional museum standards and ethics and proper care and interpretation of collections while providing the opportunity for the development of expertise and special skills. The program is designed to be practical and realistic.

The Certificate in Museum Studies must be completed in conjunction with a UWM graduate degree program. The certificate is designed to supplement a student's graduate discipline and assumes that each student will have a firm footing in his/her academic field.

The program is listed and administered through the Anthropology Department at UW-Milwaukee and taught off-campus at the Milwaukee Public Museum (MPM) by museum professionals. All applicants to the Museum Studies certificate program must comply with a background check as required by Milwaukee Public Museum policy. Individuals with criminal records cannot be admitted to the program.

Regular individual academic advising and career planning are important features of the program. The majority of graduates of the program find a paid position in a museum within one year of graduation. Graduates of the program have assumed responsibilities in museums and related institutions across the country as directors, curators, collections managers, registrars, educators, and more.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students must complete a minimum of 15 credits to earn the Museum Studies Graduate Certificate. Those interested in attaining the Certificate must indicate this in their application to their chosen graduate degree program in addition to completing a separate application for the Certificate. Students deciding to pursue the Certificate after having started a graduate degree program must both notify in writing the Director of Graduate Studies of their chosen graduate program and complete the Certificate online application.

## Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The certificate program consists of a minimum of 15 credits at the graduate level. ANTHRO 620 is the required gateway course for the certificate, but may be taken prior to admission to the certificate program for undergraduate credit. If ANTHRO 620 is taken for undergraduate credit, then 15 graduate credits are required for the certificate. If ANTHRO 620 is taken at the graduate level, a total of 18 credits are required for the certificate.

In all cases, the course prerequisites will be enforced, as the curriculum is sequenced.

Code	Title	Credits
ANTHRO 620	Museum Fundamentals	3
ANTHRO 621G	Internship in Museum Studies	3
ANTHRO 720	History and Theory of Museums	2
ANTHRO 721	Administration and Organization of Museums	3
ANTHRO 722	Visitor Experience Design in Museums	3
ANTHRO 723	Museum Collections Management and Curation	3
ANTHRO 725	Professionalism Capstone in Museum Studies	1
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> With approval of the program director an elective may be substituted for 621.

Anthropology, Art History, History, and Educational Psychology all offer courses that supplement the Museum Studies curriculum and such courses will count as electives. The structure and scheduling of the coursework requires at least two years for completion, since each course is taught only once a year and courses must be taken in sequence.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

## Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Michael Aschenbrenner	Senior Lecturer	MA	University of Wisconsin-Milwaukee		
Jocelyn Boor	Lecturer	PhD	University of Wisconsin-Milwaukee		
Derek Counts	Professor	PhD	Brown University	✓	
Jennifer Johung	Associate Professor	PhD	University of California, Berkeley	✓	
Richard Leson	Associate Professor	PhD	Johns Hopkins University	✓	
David Pacifico	Assistant Professor and Director, Emile H. Mathis Gallery and UWM Art Collection	PhD	University of Chicago	✓	
Sarah Schaefer	Assistant Professor	PhD	Columbia University	✓	
Tanya Tiffany	Associate Professor	PhD	Johns Hopkins University	✓	
Ying Wang	Associate Professor	PhD	University of Pittsburgh	✓	
Katharine (Kay) Wells	Assistant Professor	PhD	University of Southern California	✓	

## Art History, BA

Students interested in examining history through the lens of paintings, sculptures, film, architecture, graphics, and decorative arts will find Art History to be an ideal major. Throughout time, humans have expressed their emotions, beliefs, and ideals through these mediums, and today's

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Art History

The history of art is the study of humanity's efforts to express its ideas, experiences, and beliefs in visual and graphic form: in painting, sculpture, architecture, graphic art, design, film, and performance arts. It also is the historical study of the attempt to reorder the physical environment through urban and architectural planning. Courses in the Department of Art History are designed to train students to deal with such studies in the context of the cultural, social, political, economic, and religious climates of different historical eras, as well as to foster an understanding of the specific development, materials, theory, and parameters of art. Internships and colloquia in art museum studies afford qualified students more specialized experience in connoisseurship, curatorial practices, and arts management.

Students in Art History at UWM have unique access to thousands of pieces of artwork. The Emile H. Mathis Art Gallery contains over 7,000 objects covering Western and non-Western art and spanning a time frame from ancient to contemporary art. Notable artists represented in the Gallery include Jean Arp, Joan Miro, Henry Moore, Victor Vasarely, Alexander Calder, and Pablo Picasso. Check out the video of the Mathis Gallery (<https://www.youtube.com/watch?v=7CfNKGnwnoQ>).

## Programs

- Art History, BA (p. 884)
- Art History, MA (p. 889)
- Art History, MA/Library and Information Science, MLIS (p. 891)
- Art History, Minor (p. 892)

students can use these objects to understand culture, society, politics, economies, and religions and apply the lessons learned to modern issues.

What can you do with an Art History major? The answer turns out to be quite a bit. Art History majors follow a variety of career paths, and their skills are applicable to many types of jobs. Popular careers include teacher or professor, museum or gallery curator, art dealer, arts administrator, art appraiser, and historic preservation consultant, some

of which require education beyond a bachelor’s degree. Other students choose to branch out into related fields that require a broad knowledge of culture and communication such as journalism, law, marketing, administration, interior design, photography, library science, and cultural/heritage studies. Much of what happens after college depends on what a student does during college. A student who wants to work in a gallery should ensure the s/he gains hands-on experience during college through internships, volunteer work, and part-time jobs. Experiential learning is critical - it grounds what a student learns in the classroom with the real world.

Students who are more interested in the production of art (such as becoming a film maker or artist) should explore the majors offered through UWM’s Peck School of the Arts (p. 100) within the College of the Arts & Architecture.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	

Or equivalent course	
<i>Part B</i>	
Course designated as QL-B; may be completed through a major-specific course requirement	
<b>Arts</b>	
Select 3 credits	3
<b>Humanities</b>	
Select 6 credits	6
<b>Social Sciences</b>	
Select 6 credits	6
<b>Natural Sciences</b>	
Select 6 credits (at least two courses including one lab)	6
<b>UWM Foreign Language Requirement</b>	
Complete Foreign Language Requirement through:	
Two years (high school) of a single foreign language	
Two semesters (college) of a single foreign language	
Or equivalent	
<b>UWM Cultural Diversity Requirement</b>	
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM’s Cultural Diversity requirement	

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3

MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is *NOT* the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways: 0-18		
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		

Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition,

students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Art History Major Requirements

The major in art history consists of 30 credits in the department.

Code	Title	Credits
<b>Required</b>		
ARTHIST 101	Ancient and Medieval Art and Architecture	3
ARTHIST 102	Renaissance to Modern Art and Architecture	3
ARTHIST 104 or ARTHIST 105	African, New World and Oceanic Art and Architecture Asian Art and Architecture	3
<i>L&amp;S research requirement</i>		
ARTHIST 501	Colloquium in Method and Theory <sup>1</sup>	3
<b>Distribution</b>		
3 credits in each of 5 of 6 Art Historical areas: Ancient, Medieval, Renaissance/Baroque, Modern (19th/20th Century), Non-Western, Film. At least 12 of 15 credits must be at 300 level or above.		15
<i>Ancient</i>		
ARTHIST 210	The Art and Architecture of the First Cities: A Global Perspective	
ARTHIST 312	Minoan and Mycenaean Art and Archaeology	
ARTHIST 313	Greek Art and Archaeology	
ARTHIST 314	Art and Archaeology of the Ancient Near East	
ARTHIST 315	Art and Archaeology of Ancient Egypt	
ARTHIST 316	Roman Art and Archaeology	
ARTHIST 412	Cities and Sanctuaries of Ancient Greece	
ARTHIST 413	Greek Sculpture	
<i>Medieval</i>		
ARTHIST 220	Introduction to Medieval Art and Architecture	
ARTHIST 324	Early Christian and Byzantine Art and Architecture	
ARTHIST 325	Early Medieval Art in the West	

ARTHIST 327	Caliphs, Emirs, & Kings: Art & Architecture of Medieval Spain
ARTHIST 328	Frankish Art of the Crusader Period in the Levant
ARTHIST 329	Late Medieval Art and Architecture
ARTHIST 425	
ARTHIST 426	
<i>Renaissance/Baroque</i>	
ARTHIST 237	Northern Renaissance Art
ARTHIST 240	Introduction to Prints and Printmaking: History and Techniques
ARTHIST 241	Introduction to Baroque Art
ARTHIST 255	Survey of Italian Renaissance Painting and Sculpture
ARTHIST 333	High Renaissance Art in Italy
ARTHIST 342	Art and Society in Renaissance Florence
ARTHIST 343	Art and Culture of Spain and Latin America, 1500-1750
ARTHIST 431	Renaissance Architecture in Italy
<i>Modern</i>	
ARTHIST 240	Introduction to Prints and Printmaking: History and Techniques
ARTHIST 250	Introduction to American Art
ARTHIST 261	Modern Art
ARTHIST 349	American Postmodernism 1960-2000
ARTHIST 353	American Art: Colonial Period - 1870
ARTHIST 354	American Art: 1870 - Present
ARTHIST 355	American Folk Art
ARTHIST 357	Rococo to Revolution: European Art, 1750-1850
ARTHIST 358	Realism to Post-Impressionism: European Art, 1850-1900
ARTHIST 364	Modernism and the Avant-Garde, 1900-1960
ARTHIST 365	History of Photography
ARTHIST 366	German Painting, 1800-1933
ARTHIST 367	Latin American Modernisms
ARTHIST 368	History of Modern Design
ARTHIST 369	Introduction to Contemporary Art
ARTHIST 370	Trends in Contemporary Architecture
ARTHIST 447	Topics in Early Modern Art:
ARTHIST 458	A Comparative History of Architecture and Urbanism:
ARTHIST 462	Frank Lloyd Wright
ARTHIST 463	Cubism and its Inheritance
ARTHIST 465	Dada and Surrealist Art
ARTHIST 469	American Artists Revealed:
ARTHIST 470	Topics in American Art:
ARTHIST 472	
<i>Non-Western</i>	
ARTHIST 105	Asian Art and Architecture
ARTHIST 251	Introduction to the Art and Architecture of Latin America

ARTHIST 270	Pre-Columbian Art, Myth, and Legacy	
ARTHIST 281	Modern and Contemporary Chinese Art	
ARTHIST 367	Latin American Modernisms	
ARTHIST 371	African Art	
ARTHIST 372	Art of the Inca and their Ancestors	
ARTHIST 373	Art of Ancient Mexico and Central America	
ARTHIST 375	Art of the Aztec Empire	
ARTHIST 382	Chinese Art and Architecture	
ARTHIST 383	Japanese Art and Architecture	
ARTHIST 384	Art and Immortality in Ancient China	
ARTHIST 386	Art, Ritual, and Ethnicity of China	
ARTHIST 387	Buddhist Art and Architecture	
ARTHIST 474	Maya Art	
ARTHIST 480		
ARTHIST 481	Topics in Chinese Art:	
ARTHIST 482	Topics in Non-Western Art:	
<i>Film</i>		
ARTHIST 111	Entertainment Arts: Film, Television, and the Internet	
ARTHIST 205	History of Film I: Development of an Art	
ARTHIST 206	History of Film II: Development of an Art	
ARTHIST 307	Film Directors:	
ARTHIST 308	Film Styles:	
<b>Elective</b>		
3 credits at any level		3
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Taken during their junior or senior year with permission from the instructor.

The major is intended for students who are interested in obtaining a well-balanced approach to the study of art history. It provides an introduction to most major areas of inquiry in art history and to different scholarly approaches to study in this field. It is recommended especially for students who wish to continue into graduate studies in art history and to pursue careers in college teaching or museum or gallery work.

A minimum 2.0 GPA is required in all ARTHIST courses attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Fifteen credits at the 300 level or above must be taken in residence at UWM.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Major

Art history majors who meet the following criteria are awarded honors in the major:

1. 3.500 cumulative GPA in all UWM graded credits;
2. 3.500 GPA in all credits that count toward the major;
3. 3.500 GPA in all advanced credits that count toward the major;
4. Completion of one of the following:
  - Six credits of an art historical language, at 200 level or above, with grades of B or better. Art historical language must be approved by a relevant faculty member; or
  - The Art History Department's translation exam with passing grade;
5. Completion of ARTHIST 501 with grade of A- or better.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.



## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Art History, MA

The Department of Art History offers a graduate program leading to a Master of Arts degree. The graduate program prepares students for either a career in the arts or for PhD-level work at other universities. Course offerings cover the full range of western art, including film studies and electronic arts. Non-western courses in Pre-Columbian, Asian, Islamic, and African art are also offered.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. A minimum of 15 credits in Art History.
2. Two letters of recommendation from persons familiar with applicant's academic or professional activities and potential.
3. A writing sample to the Department of Art History, for example, an undergraduate art historical term paper.
4. Strongly recommended, though not required: background in languages, history or classics. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

### Thesis Track: MA in Art History with an Emphasis on Methods and Criticism

Minimum degree requirement is 30 graduate credits in Art History, of which a minimum of 21 credits must be 700- to 900-level courses, as follows:

Code	Title	Credits
ARTHIST 700	Proseminar in Art History <sup>1</sup>	3
ARTHIST 891	Art Museum Internship	3
6 credits of ARTHIST 990 Thesis Research		6
9 credits of other 700- to 900-level Art History courses (excluding ARTHIST 703 and ARTHIST 704)		9
9 credits of additional graduate-level Art History courses		9
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Must be taken in the student's first fall semester.

Of the total 30 credits, 12 credits must be distributed across three of the following four areas: Ancient-Medieval; Early Modern; Modern (1850-the Present including Film); and non-Western. At least 9 of these credits must be taken in courses numbered 700 or above.

The following courses may not be used to satisfy the distribution requirement, although they will count toward the overall number of credits needed to graduate:

Code	Title	Credits
ARTHIST 703	Introduction to Art Museum Studies I	3
ARTHIST 704	Introduction to Art Museum Studies II	3

Under special circumstances, 3 credits in 700- to 900-level work may be substituted for 3 of the 6 credits of thesis research. In addition, students may take a maximum of 6 credits of independent research (890, 891 and/or 999); however, these credits may not be taken in the first 6 credits of graduate work in the Department, and not until all deficiencies (if any) have been satisfied. Furthermore, they may not be counted toward the required 21 credits of 700- to 900-level courses. They will count, however, toward the overall number of credits needed to graduate. Upon petition to the director of graduate studies, a student may be permitted to take up to 6 credits in appropriate areas outside Art History (e.g., anthropology, literature, history, music history, philosophy, film).

### Thesis

In addition to completing all the coursework required for the degree, the student must write a thesis on a subject selected in consultation with the advisor. This study must demonstrate the student's ability to organize material and their familiarity with relevant research methods and art-historical literature. The student must pass an oral defense of the thesis.

### Curatorial Track: MA in Art History with an Emphasis on Museums and Curatorial Practice

Minimum degree requirement is 30 graduate credits in Art History, of which a minimum of 27 credits must be 700- to 900-level courses, as follows:

Code	Title	Credits
ARTHIST 700	Proseminar in Art History <sup>1</sup>	3
ARTHIST 891	Art Museum Internship	3

ARTHIST 703	Introduction to Art Museum Studies I	3
ARTHIST 704	Introduction to Art Museum Studies II	3
6 credits of ArtHist 991 Thesis Exhibition		6
12 additional credits in 700- to 900-level courses		9
3 additional credits in graduate-level Art History courses		3
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Must be taken in the student's first fall semester.

Of the total 30 credits, 12 credits must be distributed across three of the following four areas: Ancient-Medieval; Early Modern; Modern (1850-the Present including Film); and non-Western. At least 9 of these credits must be taken in courses numbered 700 or above.

Under special circumstances, 3 credits in 700- to 900-level work may be substituted for 3 of the 6 credits of thesis research. In addition, students may take a maximum of 3 credits of independent research (890, 891 and/or 999); however, these credits may not be taken in the first 6 credits of graduate work in the Department, and not until all deficiencies (if any) have been satisfied. Furthermore, they may not be counted toward the required 27 credits of 700- to 900-level courses. They will count, however, toward the overall number of credits needed to graduate. Upon petition to the graduate advisor, a student may be permitted to take up to 3 credits in appropriate areas outside Art History (e.g., anthropology, literature, history, music history, philosophy, film).

### Exhibition

The student on this curatorial track must also organize an exhibition accompanied by a scholarly catalog on a subject selected in consultation with the advisor. This exhibition must demonstrate the student's ability to organize material and their familiarity with relevant research methods and art historical literature. The exhibition is considered the equivalent of a formal thesis and the accompanying written work must be submitted to the Graduate School in appropriate format.

## Areas for Distribution Requirement

Code	Title	Credits
<b>Courses by Distribution Area</b>		
<i>Ancient-Medieval</i>		
ARTHIST 312G	Minoan and Mycenaean Art and Archaeology	3
ARTHIST 313G	Greek Art and Archaeology	3
ARTHIST 314G	Art and Archaeology of the Ancient Near East	3
ARTHIST 315G	Art and Archaeology of Ancient Egypt	3
ARTHIST 316G	Roman Art and Archaeology	3
ARTHIST 323G	Age of Apocalypse: Western European Art after the First Millennium	3
ARTHIST 324G	Early Christian and Byzantine Art and Architecture	3
ARTHIST 325G	Early Medieval Art in the West	3
ARTHIST 326G	Chivalry and Spirituality: French Gothic Art and Architecture	3
ARTHIST 327G	Caliphs, Emirs, & Kings: Art & Architecture of Medieval Spain	3
ARTHIST 328G	Frankish Art of the Crusader Period in the Levant	3
ARTHIST 329G	Late Medieval Art and Architecture	3

ARTHIST 412G	Cities and Sanctuaries of Ancient Greece	3
ARTHIST 413G	Greek Sculpture	3
ARTHIST 720	Colloquium in Medieval Art/Architecture:	3
<i>Early Modern</i>		
ARTHIST 333G	High Renaissance Art in Italy	3
ARTHIST 341G	Art of the Dutch Golden Age	3
ARTHIST 342G	Art and Society in Renaissance Florence	3
ARTHIST 353G	American Art: Colonial Period - 1870	3
ARTHIST 357G	Rococo to Revolution: European Art, 1750-1850	3
ARTHIST 431G	Renaissance Architecture in Italy	3
ARTHIST 447G	Topics in Early Modern Art:	3
ARTHIST 730	Colloquium in Renaissance/Baroque Art/Architecture:	3
<i>1850 to the Present (including Film)</i>		
ARTHIST 307G	Film Directors:	3
ARTHIST 308G	Film Styles:	3
ARTHIST 349G	American Postmodernism 1960-2000	3
ARTHIST 354G	American Art: 1870 - Present	3
ARTHIST 355G	American Folk Art	3
ARTHIST 356G	American Architecture	3
ARTHIST 358G	Realism to Post-Impressionism: European Art, 1850-1900	3
ARTHIST 364G	Modernism and the Avant-Garde, 1900-1960	3
ARTHIST 365G	History of Photography	3
ARTHIST 366G	German Painting, 1800-1933	3
ARTHIST 368G	History of Modern Design	3
ARTHIST 369G	Introduction to Contemporary Art	3
ARTHIST 376G	History and Theory of New Media Art	3
ARTHIST 377G	Art and Performance	3
ARTHIST 462G	Frank Lloyd Wright	3
ARTHIST 463G	Cubism and its Inheritance	3
ARTHIST 465G	Dada and Surrealist Art	3
ARTHIST 469G	American Artists Revealed:	3
ARTHIST 470G	Topics in American Art:	3
ARTHIST 750	Colloquium in American Art:	3
ARTHIST 760	Colloquium in Modern Art/Architecture:	3
ARTHIST 761	Colloquium in Film History, Theory, Criticism:	3
<i>Non-Western</i>		
ARTHIST 343G	Art and Culture of Spain and Latin America, 1500-1750	3
ARTHIST 367G	Latin American Modernisms	3
ARTHIST 371G	African Art	3
ARTHIST 372G	Art of the Inca and their Ancestors	3
ARTHIST 373G	Art of Ancient Mexico and Central America	3
ARTHIST 375G	Art of the Aztec Empire	3
ARTHIST 380G	Chinese Painting	3
ARTHIST 382G	Chinese Art and Architecture	3

ARTHIST 383G	Japanese Art and Architecture	3
ARTHIST 384G	Art and Immortality in Ancient China	3
ARTHIST 386G	Art, Ritual, and Ethnicity of China	3
ARTHIST 387G	Buddhist Art and Architecture	3
ARTHIST 474G	Maya Art	3
ARTHIST 481G	Topics in Chinese Art:	1-3
ARTHIST 482G	Topics in Non-Western Art:	3
ARTHIST 740	Colloquium in Latin American Art:	3
ARTHIST 770	Colloquium in Non-Western Art:	3

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. A student who is not assigned to an advisor at time of admission should immediately contact the Graduate Advisor.

### Language Requirement

Students must demonstrate a reading knowledge of one art historical language, e.g. French, German, Italian, Spanish or other language as appropriate. Students must take the departmental reading exam in the language of their choice at least once by the time they have completed 9 credits. If they do not pass the exam on the first attempt, they will be expected to enroll in an appropriate language course. Students may not enroll in thesis research (990) unless they have passed the language examination.

### Thesis or Exhibition

The student must either write a thesis or organize an exhibition accompanied by a scholarly catalog on a subject selected in consultation with the advisor. This study or exhibition must demonstrate the student's ability to organize material and familiarity with research methods and art historical literature pertinent to the student's topic and area of interest. The exhibition is considered the equivalent of a formal thesis and the accompanying written work must be submitted to the Graduate School in appropriate format.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment. It is expected that a full-time student will normally complete all of the requirements for the degree within two years.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Art History, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if

they were not taken simultaneously. *All degree requirements of each component must be satisfied.*

- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### MLIS/MA Art History

The MLIS/MA Art History Coordinated Degree Program prepares students for positions as art librarians, as curators of rare books and special collections, and as archivists, registrars, and collections managers in art museums.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Art History MA of the College of Letters and Science, and the Library and Information Science MLIS of the School of Information Studies.

## Credits and Courses

The MA in Art History normally has a minimum requirement of 30 credits from Art History courses. For the coordinated MA Art History/MLIS degree program, however, students can substitute 6 credits in Information Studies courses for 6 credits of Art History courses. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in Art History courses as specified below.

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	12
INFOST 511	Organization of Information	
INFOST 571	Information Access and Retrieval	
INFOST 799	Research Methods in Information Studies	
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Art History Courses

Minimum degree requirement is 24 credits in Art History, of which a minimum of 18 credits must be 700- to 900-level courses. To fulfill the

Distribution Requirement, students must complete at least 3 credits in each of the following four areas 1) Ancient/Medieval, 2) Renaissance/Baroque, 3) Modern/Contemporary, and 4) Non-Western. At least 6 of these credits must be fulfilled at the 700-level or above.

Code	Title	Credits
<b>Core Courses</b>		
ARTHIST 700	Proseminar in Art History (Must be taken in the student's first fall semester)	3
ARTHIST 891	Art Museum Internship	3
ARTHIST 990	Thesis Research	6
<b>Distribution Requirement</b>		<b>12</b>
<b>Total Credits</b>		<b>24</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Additional Requirements

### Thesis

A thesis, on a subject selected in consultation with the advisor. This study must demonstrate the student's ability to organize material and her/his familiarity with relevant research methods and art-historical literature. The student must pass an oral defense of the thesis.

### Language Translation Exam

The student must pass a language translation exam.

## Art History, Minor

Students interested in examining history through the lens of paintings, sculptures, film, architecture, graphics, and decorative arts will find Art History to be an ideal major. Throughout time, humans have expressed their emotions, beliefs, and ideals through these mediums, and today's students can use these objects to understand culture, society, politics, economies, and religions and apply the lessons learned to modern issues.

What can you do with an Art History minor? The answer turns out to be quite a bit.

Alumni follow a variety of career paths, and their skills are applicable to many types of jobs. Popular careers include teacher or professor, museum or gallery curator, art dealer, arts administrator, art appraiser, and historic preservation consultant, some of which require education beyond a bachelor's degree. Other students choose to branch out into related fields that require a broad knowledge of culture and communication such as journalism, law, marketing, administration, interior design, photography, library science, and cultural/heritage studies.

Much of what happens after college depends on what a student does during college. A student who wants to work in a gallery should ensure the s/he gains hands-on experience during college through internships, volunteer work, and part-time jobs. Experiential learning is critical - it grounds what a student learns in the classroom with the real world.

Students who are more interested in the production of art (such as becoming a film maker or artist) should explore the majors offered through UWM's Peck School of the Arts (p. 100).

## Requirements

Students should declare the minor in art history after they have completed 15 degree credits, and before they have earned 75 degree credits. A minimum 2.0 GPA must be maintained in all Art History courses attempted at UWM. In addition, students must attain a 2.0 GPA in all minor credits attempted, including any transfer work. It requires at least 18 credits in the department, including the following:

Code	Title	Credits
ARTHIST 101	Ancient and Medieval Art and Architecture	3
ARTHIST 102	Renaissance to Modern Art and Architecture	3
Select 9 credits in ARTHIST at the 300 level or above in residence at UWM		9
Select 3 additional credits in ARTHIST		3
<b>Total Credits</b>		<b>18</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Asian Studies, Undergraduate Certificate

The Asian Studies Undergraduate Certificate combines the study of Asian languages, culture, politics, and history, and is particularly well-suited to majors from business, global studies, international studies, journalism and advertising, the visual and performing arts, communication, economics, the natural sciences, political science, or any discipline that involves interactions with the Asian world.

Students who obtain this certificate are better equipped to work in global industry and business, international politics, technology, tourism, and media because they're able to better analyze Asian societies and act with cultural awareness and understanding. Students can choose to obtain the certificate with or without an Asian language focus, with the latter requiring more language classes. The certificate is interdisciplinary with coursework from economics, history, comparative literature, anthropology, political science, sociology, and art history.

## Eligibility

The Undergraduate Certificate in Asian Studies is open to all students seeking a bachelor's degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to people who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject area.

## Requirements

Students enrolling in the Asian Studies Certificate Program are required to earn a minimum of 18 credits, at least 9 of which must be completed at UWM. Of the 18 credits, at least 12 credits must be taken in courses in the College of Letters and Science, and 9 of those must be at the upper level (numbered 300 and above). Of the required credits, at least 9 must be at the 300 level or above, of which 6 credits must be non-language courses. Courses counting for the certificate may not be taken on a credit/no credit basis. Students must achieve a grade point average of 2.700 or above in all courses counting toward the certificate. A maximum of 6 credits in a combination of approved independent study and/or relevant Asia-focused courses from other schools and colleges may count toward the requirements of the program.

To earn the Certificate in Asian Studies, students must fulfill the requirements for one of two tracks:

- Track A (22 credits): 6 courses, including 2 courses in a single Asian language (10 crs.), 1 gateway course (3 crs.), and 3 upper-level electives (9 crs.); or
- Track B (18-22 credits): 6 courses, including 1 gateway course (3 crs.) with the remaining courses chosen from the list of electives. Students must take a minimum of 3 upper-level courses (9 crs.), and no language courses are required. However, as electives, students may choose to take a course in any single Asian language or 2 courses (up to 10 crs.) in any combination of Chinese, Japanese, or Korean.

Students majoring or minoring in Chinese or Japanese may only earn the Asian Studies Certificate through Track B. Interested students should contact the Asian Studies Program Advisor as soon as they decide to pursue the certificate. The advisor's role is to help the student design a program of study from the among the available courses and to guide the student in completing that program.

Code	Title	Credits
<b>Gateway</b>		
Select one of the following:		3
ARTHIST 105	Asian Art and Architecture (HU)	
ECON 193	First-Year Seminar: (Economics of Asia (SS) or other appropriate subtitles)	
GEOG 213	Geography of Asia (SS)	
HIST 175	East Asian Civilization to 1600 (HU)	
HIST 176	East Asian Civilization Since 1600 (HU)	
HIST 284	Buddhism Across Asia	
PHILOS 204	Introduction to Asian Religions	
<b>Electives</b>		
Select 15 credits from the approved list below		15
<b>Total Credits</b>		<b>18</b>

## Electives

The following courses have been approved for the Certificate in Asian Studies:

Code	Title	Credits
ANTHRO 325	Japanese Culture and Society	3
ARABIC 390	Islam: Religion and Culture	3
ARTHIST 105	Asian Art and Architecture	3
ARTHIST 192	First-Year Seminar: (with appropriate subtitle)	3
ARTHIST 281	Modern and Contemporary Chinese Art	3
ARTHIST 308	Film Styles: (with appropriate subtitle)	3
ARTHIST 380	Chinese Painting	3
ARTHIST 381	Honors Seminar: (with appropriate subtitle)	3
ARTHIST 382	Chinese Art and Architecture	3
ARTHIST 383	Japanese Art and Architecture	3
ARTHIST 386	Art, Ritual, and Ethnicity of China	3
ARTHIST 387	Buddhist Art and Architecture	3
ARTHIST 481	Topics in Chinese Art:	1-3
ARTHIST 482	Topics in Non-Western Art: (with appropriate subtitle)	3
CHINESE 101	First Semester Chinese	5
CHINESE 102	Second Semester Chinese	5
CHINESE 150	Contemporary Chinese Society and Culture	3
CHINESE 160	A Taste of China: Learning Chinese Culture and Society through Cuisine	3
CHINESE 200	Chinese Calligraphy	3
CHINESE 201	Third Semester Chinese	5
CHINESE 202	Fourth Semester Chinese	5
CHINESE 220	Introduction to Chinese Poetry	3
CHINESE 301	Fifth Semester Chinese	4
CHINESE 302	Sixth Semester Chinese	4
CHINESE 320	Contemporary Chinese Societies through Film	3
CHINESE 330	Chinese Language and Culture	3
CHINESE 343	Chinese Martial Arts Fiction	3
CHINESE 353	Popular Culture, Entertainment, and China's Modernization	3
CHINESE 401	Seventh Semester Chinese	3
CHINESE 402	Eighth Semester Chinese	3
CHINESE 441	Business Chinese	3
CHINESE 699	Advanced Independent Study	1-3
COMPLIT 360	Seminar in Literature and Cultural Experience: (with appropriate subtitle)	3
ECON 193	First-Year Seminar: (Economics of Asia or other appropriate subtitles) (if not selected above)	3
ENGLISH 316	World Cinema: (with appropriate subtitle)	3
GEOG 213	Geography of Asia (if not selected above)	3
GEOG 381	Honors Seminar: (with appropriate subtitle)	3

GEOG 443	Cities of the World: Comparative Urban Geography (with appropriate emphasis on Asia)	3	JAPAN 356	Seminar in Japanese Literature: Readings	1
HIST 175	East Asian Civilization to 1600 (if not selected above)	3	JAPAN 361	Translating Japanese Media	3
HIST 176	East Asian Civilization Since 1600 (if not selected above)	3	JAPAN 401	Seventh Semester Japanese	4
HIST 269	Asian Americans in Historical Perspective	3	JAPAN 402	Eighth Semester Japanese	4
HIST 284	Buddhism Across Asia	3	JAPAN 416	Introduction to Translation: Japanese to English	3
HIST 286	The Korean War	3	JAPAN 441	Business Japanese I	3
HIST 287	The Vietnam War	3	KOREAN 101	First-Semester Korean	5
HIST 370	Topics in the History of Religious Thought: (with appropriate subtitle)	3	KOREAN 102	Second-Semester Korean	5
HIST 372	Topics in Global History: (with appropriate subtitle)	3	KOREAN 201	Third Semester Korean	5
HIST 376	Premodern China	3	KOREAN 202	Fourth Semester Korean	5
HIST 377	Modern China	3	KOREAN 221	Korean Culture and Society	3
HIST 378	Revolution in China	3	KOREAN 301	Fifth Semester Korean	3
HIST 402	Topics in Asian History:	3	KOREAN 302	Sixth Semester Korean	3
HMONG 107	First-Semester Hmong Literacy	3	KOREAN 325	Korean Contemporary Culture and the Korean Wave	3
HMONG 108	Second-Semester Hmong Literacy	3	PHILOS 204	Introduction to Asian Religions (if not selected above)	3
HMONG 265	Hmong Americans: History, Culture, and Contemporary Life	3	PHILOS 304	Buddhist Philosophy	3
HONORS 200	Honors Seminar: The Shaping of the Modern Mind: (with appropriate subtitle)	3	POL SCI 314	Chinese Politics and Foreign Policy	3
HONORS 350	Honors Seminar in the Humanities: (with appropriate subtitle)	3	POL SCI 338	Seminar in International Relations: (with appropriate subtitle)	3
INTLST 550	Senior Seminar in International Studies: (with appropriate subtitle)	3	POL SCI 341	Politics and Markets in Pacific-Rim Countries: (with appropriate subtitle)	3
JAPAN 100	Introduction to Japanese Literature	3	POL SCI 343	Asian International Relations	3
JAPAN 101	First Semester Japanese	5	POL SCI 345	Korean Politics and Foreign Policy	3
JAPAN 102	Second Semester Japanese	5	WGS 500	Advanced Social Science Seminar in Women's and Gender Studies: (with appropriate subtitle)	3
JAPAN 110	Japanese Popular Culture	3			
JAPAN 111	Elementary Japanese I	3			
JAPAN 112	Elementary Japanese II	3			
JAPAN 113	Elementary Japanese III	3			
JAPAN 201	Third-Semester Japanese	5			
JAPAN 202	Fourth-Semester Japanese	5			
JAPAN 220	Introduction to Japanese Food Studies	3			
JAPAN 221	Japanese Film: Themes and Methods	3			
JAPAN 299	Ad Hoc:	1-6			
JAPAN 301	Fifth Semester Japanese	4			
JAPAN 302	Sixth Semester Japanese	4			
JAPAN 330	Japanese Language and Culture	3			
JAPAN 331	Reading Japanese Short Stories	3			
JAPAN 345	Japanese News Media	3			
JAPAN 351	Japanese Performance Traditions	3			
JAPAN 352	Japanese Performance Traditions: Readings	1			
JAPAN 355	Seminar in Japanese Literature and Culture:	3			

## Biological Sciences

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology, and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology.

Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in healthcare, agriculture, natural resources and environmental sciences, food management, bioremediation, as well as the biomedical and biotechnology fields. A degree in Biological Sciences also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.

## Field Stations

Pigeon Lake Field Station is a natural laboratory sponsored by the 14 campuses of the University of Wisconsin System, located in the Chequamegon National Forest, 30 miles from Lake Superior in northern Wisconsin's Bayfield County. Pigeon Lake Field Station offers summer programs in a variety of disciplines, including biology. Work completed

at Pigeon Lake is credited as resident study by UWM. For additional information, contact the Biological Sciences Department office.

The UWM Field Station is an area of almost 2,500 acres devoted to the study of natural history and biology. Located about 25 miles north of campus on the Cedarburg Bog in the Town of Saukville, the station includes a wide variety of natural areas ranging from old-growth forest to acid bog and several lakes. Many biological sciences courses use the Field Station for instruction and to provide hands-on research opportunities. The Field Station provides internship and independent study opportunities for biology students; it also offers short courses for credit through the department. For additional information, contact the Biological Sciences Department office.

## Programs

- Biological Sciences, BA (p. 896)
- Biological Sciences, BS (p. 902)
- Biological Sciences, Minor (p. 908)
- Biological Sciences, MS (p. 909)
- Biological Sciences, PhD (p. 910)
- Microbiology, BS (p. 912)
- Neuroscience, BS (Department of Biological Sciences) (p. 916)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Filipe Alberto	Associate Professor	PhD	University of Algarve, Portugal	✓	
Sonia Bardy	Associate Professor	PhD	Queen's University, Ontario	✓	
John Berges	Professor	PhD	University of British Columbia	✓	
Gerald Bergtrom	Professor	PhD			✓
Martin Boraas	Associate Professor	PhD			✓
Arthur S. Brooks	Professor	PhD			✓
John Buntin	Professor	PhD			✓
James R. Coggins	Associate Professor	PhD			✓
Mary Lynne Perille Collins	Professor	PhD	Rutgers University		✓
Claire de la Cova	Assistant Professor	PhD	Columbia University	✓	
Madhusudan Dey	Associate Professor	PhD	Jawaharlal Nehru University, India	✓	
Peter Dunn	Distinguished Professor	PhD	University of Alberta	✓	
Timothy Ehlinger	Associate Professor	PhD	Michigan State University	✓	
Millicent S. Ficken	Professor	PhD			✓
Steven Forst	Professor	PhD	New York University	✓	
Ralph Grunewald	Associate Professor	PhD			✓
Jennifer Gutzman	Associate Professor	PhD	University of Wisconsin-Madison	✓	
R. David Heathcote	Professor	PhD	University of California, Berkeley		✓
Gerlinde Hoebel	Associate Professor	DNS, PhD	University of Ulm, Germany	✓	
Sara B. Hoot	Professor	PhD			✓
Reinhold Hutz	Professor	PhD	Michigan State University		✓
Jeffrey Karron	Associate Professor	PhD	University of Colorado	✓	
Geoffrey S. Kennedy	Associate Professor				✓
Sergei Kuchin	Associate Professor	PhD	Institute of Genetics, Moscow	✓	
Emily Latch	Associate Professor	PhD	Purdue University	✓	
Jakob R. Loewenberg	Professor	PhD			✓
Mark McBride	Distinguished Professor	PhD	University of Wisconsin-Madison	✓	
Gretchen A. Meyer	Adjunct Senior Scientist	PhD	Cornell University	✓	
James R. Moyer Jr.	Associate Professor, Psychology	PhD	Northwestern University		
Julie A. Oliver	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Marianna Orlova	Instrument Innovator	PhD	Institute of Genetics and Selection of Industrial Microorganisms, Moscow		
Heather A. Owen	Senior Scientist	PhD	Miami University	✓	
Andrew Petto	Senior Lecturer	PhD	University of Massachusetts, Amherst		✓

Ruth B. Phillips	Professor	PhD			✓
Gyaneshwar Prasad	Associate Professor	PhD	Maharaja Sayajirao University of Baroda, India		✓
Christopher C. Quinn	Associate Professor	PhD	Yale University		✓
Valerica Raicu	Professor, Physics	PhD	University of Bucharest, Romania		
James A. Reinartz	Adjunct Senior Scientist	PhD	Duke University		✓
Charles C. Remsen	Professor	PhD			✓
Rafael Rodríguez	Associate Professor	PhD	University of Kansas		✓
Daad A. Saffarini	Professor	PhD	University of Wisconsin-Milwaukee		✓
Colin Scanes	Professor	PhD, DSc			✓
Marius Schmidt	Professor	PhD	Technical University of Munich		
Dianne Seale	Associate Professor	PhD			✓
Cynthia V. Sommer	Associate Professor	PhD			✓
Douglas Steeber	Associate Professor, Chair	PhD	University of Wisconsin-Madison		✓
J. Rudi Strickler	Shaw Distinguished Professor	PhD	Swiss Federal Institute of Technology		✓
Ava Udvadia	Associate Professor	PhD	Duke University		✓
Donna Van Wynsberghe	Professor	PhD			✓
Eldon D. Warner	Professor	PhD			✓
Roslyn P. Warren	Professor	PhD			✓
Peter J. Wejksnora	Associate Professor	PhD	Brandeis University		✓
Linda A. Whittingham	Professor	PhD	Queens University, Ontario		✓
Charles F. Wimpee	Associate Professor	PhD	University of California, Los Angeles		✓
Jane Witten	Associate Professor	PhD	University of Chicago		✓
Ching-Hong Yang	Professor	PhD	University of California, Riverside		✓
Erica Young	Associate Professor	PhD	Monash University (Melbourne, Australia)		✓
Dazhong (Dave) Zhao	Professor	PhD	The Chinese Academy of Sciences, Beijing, China		✓

## Biological Sciences, BA

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology. Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in healthcare, agriculture, natural resources and environmental sciences, food management, bioremediation, as well as the biomedical and biotechnology fields. A degree in Biological Sciences also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.

### Related Areas of Study

The Conservation and Environmental Science (p. 968) major is an alternative, interdisciplinary program for students with specific interests in conservation or environmental science.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		



Course designated as OWC-B; may be completed through a major-specific course requirement

**Quantitative Literacy**

*Part A*

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

*Part B*

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	

SOCIOL 261	Introduction to Statistical Thinking in Sociology
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**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
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### Cultural Diversity

Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3
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\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

### Declaring the Major

To declare the major in Biological Sciences, a student must first complete BIO SCI 150 successfully with a grade of C or better.

### Biological Sciences Major Requirements

The Biological Sciences major requires the following:

- A minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.
- At least 15 of the advanced credits must be taken in residence at UWM.
- Completion of four (4) laboratory courses.
- A GPA of 2.0 in Biological Sciences courses attempted at UWM.
- A GPA of at least 2.0 in all major credits attempted, including any transfer work.

No more than eight (8) credits in 100-level courses in Biological Sciences may be applied toward the major, and students may not combine BIO SCI 150, BIO SCI 202, and BIO SCI 203 for more than 9

credits toward the major. A combined limit of 6 credits in the following list count towards the major:

Code	Title	Credits
BIO SCI 290	Independent Study and Research:	
BIO SCI 489	Internship in Biological Sciences, Upper Division	
BIO SCI 695	Independent Study in Freshwater Sciences for Biological Sciences Students	
BIO SCI 697	Independent Study in Cell and Molecular Biology	
BIO SCI 698	Independent Study in Microbiology	
BIO SCI 699	Independent Study	
HONORS 686	Research in Honors	
HONORS 687	Senior Honors Project	
HONORS 689	Senior Honors Thesis	

At least 20 credits at the advanced level (300 and above) must be taken in the BIO SCI courses.

Students who plan to attend graduate or professional schools are advised to take the one-year sequence of Organic Chemistry with lab, a course in Biochemistry (CHEM 501), and two semesters of Calculus. For those pursuing the General or Cell and Molecular Biology option, CHEM 501 will also count towards the major.

Listed below are the foundational requirements for the three options, followed by the Biological Sciences major requirements for the three options:

Code	Title	Credits
<b>Math Foundation</b>		
MATH 105	Introduction to College Algebra (or equivalent)	3
<b>Physics Foundation</b>		
For students choosing the General Biology Option or the Cell and Molecular Biology (CMB) Option, take these courses:		9-10
PHYSICS 120	General Physics I (Non-Calculus Treatment)	
PHYSICS 122	General Physics II (Non-Calculus Treatment)	
PHYSICS 121	General Physics Laboratory I (Non-Calculus Treatment) (at least one semester)	
or PHYSICS 123	General Physics Laboratory II (Non-Calculus Treatment)	
For students choosing the Ecology and Evolutionary Biology (EEB) Option, select at least one of the following options:		3-5
GEOG 120	Our Physical Environment	
GEO SCI 100	Introduction to the Earth	
GEO SCI 102	Principles of Historical Geology	
GEO SCI 108	A History of Life	
GEO SCI 150	Introduction to Ocean Sciences	
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	

PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)
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<b>Chemistry Foundation</b>	
<i>Part A:</i>	
For all Biological Sciences majors	
CHEM 102	General Chemistry
CHEM 104	General Chemistry and Qualitative Analysis
<i>Part B (required for students choosing the General Biology Option or the Cell and Molecular Biology (CMB) Option):<sup>1,2</sup></i>	
Select one of the following options:	
Option 1:	
CHEM 341	Introductory Survey of Organic Chemistry
CHEM 342	Introductory Organic Chemistry Laboratory
Option 2:	
CHEM 343	Organic Chemistry
CHEM 344	Organic Chemistry Laboratory
CHEM 345	Organic Chemistry

<sup>1</sup> For students choosing the Cell and Molecular Biology (CMB) option, CHEM 343, CHEM 344, and CHEM 345 are required, and a second physics lab is strongly recommended.

<sup>2</sup> For students choosing the Ecology and Evolutionary Biology (EEB) Option, there is no Organic Chemistry (Part B) requirement, though it is advised for certain subfields. Consultation with your departmental advisor is strongly recommended, particularly for students who plan to attend graduate or professional schools.

## General Biology Option

Code	Title	Credits
<b>Required Biological Sciences Courses</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 325	Genetics	4
Select at least one of the following:		4-5
BIO SCI 310	General Ecology	
BIO SCI 315 & BIO SCI 316	Cell Biology and Laboratory in Genetics and Cell Biology	
BIO SCI 383	General Microbiology	
<b>Research Requirement<sup>1</sup></b>		
Select one of the following:		1-6
BIO SCI 611	Seminar on Recent Advances in Limnology and Oceanography	
BIO SCI 670	Senior Seminar in Biological Sciences	
BIO SCI 671	Undergraduate Seminar in Microbiology	
BIO SCI 672	Undergraduate Seminar in Cell and Molecular Biology	
HONORS 686	Research in Honors	
HONORS 687	Senior Honors Project	
HONORS 689	Senior Honors Thesis	

BIO SCI 695	Independent Study in Freshwater Sciences for Biological Sciences Students
BIO SCI 697	Independent Study in Cell and Molecular Biology
BIO SCI 698	Independent Study in Microbiology
BIO SCI 699	Independent Study
Research option for Biological Sciences/CES double majors only:	
CES 471	Practicum in Natural Resources Management

**Laboratory Course Requirement**

A total of 4 labs courses are required for the major. This requirement may be satisfied by the courses listed above; if not, select additional lab courses from the list below. 1-4

BIO SCI 202	Anatomy and Physiology I
BIO SCI 203	Anatomy and Physiology II
BIO SCI 310	General Ecology (if not selected above)
BIO SCI 316	Laboratory in Genetics and Cell Biology (if not selected above)
BIO SCI 383	General Microbiology (if not selected above)
BIO SCI 358	Birds of Wisconsin
BIO SCI 451	Field Methods in Conservation
BIO SCI 501	Plant and Aquatic Ecophysiology Laboratory
BIO SCI 539	Laboratory Techniques in Molecular Biology
BIO SCI 543	Scanning Electron Microscopy Laboratory
BIO SCI 544	Transmission Electron Microscopy Laboratory
BIO SCI 580	Experimental Microbiology

**Electives**

Select electives to reach a minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.<sup>2,3</sup> 16

**Total Credits** 34-43

<sup>1</sup> All courses taught as independent studies intended to fulfill the research requirement must have prior departmental approval.

<sup>2</sup> Up to six credits from the following courses may be counted as electives in the major: CHEM 501, ANTHRO 301, BMS 534, BMS 535, PSYCH 254, and PSYCH 654.

<sup>3</sup> Students may elect to take these SFS courses (FRSHWTR 511, FRSHWTR 563, and FRSHWTR 567) to earn credit toward the Biology major.

**Cell and Molecular Biology Option**

Code	Title	Credits
<b>Core Courses</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 315	Cell Biology	3
BIO SCI 316	Laboratory in Genetics and Cell Biology	2
BIO SCI 325	Genetics	4

**Laboratory Course Requirement**

Select at least one of the following: 1-4

BIO SCI 203	Anatomy and Physiology II
BIO SCI 383	General Microbiology
BIO SCI 501	Plant and Aquatic Ecophysiology Laboratory
BIO SCI 539	Laboratory Techniques in Molecular Biology
BIO SCI 543	Scanning Electron Microscopy Laboratory
BIO SCI 544	Transmission Electron Microscopy Laboratory
BIO SCI 580	Experimental Microbiology

**Research Requirement<sup>1</sup>**

BIO SCI 672	Undergraduate Seminar in Cell and Molecular Biology	1-3
or BIO SCI 697	Independent Study in Cell and Molecular Biology	

**Electives**

Select additional Cell and Molecular Biology courses to reach a minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level. 15

BIO SCI 335	Mammalian Reproductive Biology
BIO SCI 356	Developmental Biology
BIO SCI 370	Mammalian Physiology
BIO SCI 401	Immunology
BIO SCI 405	General Virology
BIO SCI 455	Cellular, Molecular and Developmental Neurobiology
BIO SCI 490	Molecular Genetics
BIO SCI 498	Genetics of Development and Cancer
BIO SCI 500	Plant Physiology
BIO SCI 529	Molecular Biology of Microorganisms
BIO SCI 535	Bacterial Pathogenesis
BIO SCI 540	Microbial Diversity and Physiology
BIO SCI 542	Biological Electron Microscopy
BIO SCI 564	Endocrinology
BIO SCI 565	Gene Regulation in Stem Cells and Regeneration
BIO SCI 566	Cell Biology of Human Disease
BIO SCI 572	Functional Genomics
CHEM 501	Introduction to Biochemistry

**Total Credits** 34-39

<sup>1</sup> All courses taught as independent studies intended to fulfill the research requirement must have prior departmental approval.

**Ecology, Evolution and Behavior Option**

Code	Title	Credits
<b>Required Biological Sciences Courses</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 310	General Ecology	4
BIO SCI 325	Genetics	4

BIO SCI 465	Biostatistics	3
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**Laboratory Course Requirement**

Select at least one of the following:		2-4
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BIO SCI 358	Birds of Wisconsin
BIO SCI 383	General Microbiology
BIO SCI 451	Field Methods in Conservation
BIO SCI 501	Plant and Aquatic Ecophysiology Laboratory
BIO SCI 502	Introduction to Programming and Modeling in Ecology and Evolution
BIO SCI 539	Laboratory Techniques in Molecular Biology
BIO SCI 543	Scanning Electron Microscopy Laboratory
BIO SCI 544	Transmission Electron Microscopy Laboratory

**Research Requirement <sup>1</sup>**

Select one of the following		1-6
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BIO SCI 611	Seminar on Recent Advances in Limnology and Oceanography
BIO SCI 670	Senior Seminar in Biological Sciences
BIO SCI 695	Independent Study in Freshwater Sciences for Biological Sciences Students
BIO SCI 699	Independent Study
CES 471	Practicum in Natural Resources Management
HONORS 686	Research in Honors
HONORS 687	Senior Honors Project
HONORS 689	Senior Honors Thesis

**Additional Electives**

Select electives to reach a minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.		12
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BIO SCI 370	Mammalian Physiology
BIO SCI 401	Immunology
BIO SCI 406	Marine Biology
BIO SCI 440	Ecology and Evolution of Amphibians and Reptiles
BIO SCI 458	Community Ecology
BIO SCI 469	Genomic Data Analysis
BIO SCI 480	Ecological Genetics
BIO SCI 500	Plant Physiology
BIO SCI 505	Conservation Biology
BIO SCI 512	Limnology I
BIO SCI 532	Behavioral Ecology
BIO SCI 540	Microbial Diversity and Physiology
BIO SCI 562	Topics in Field Biology.
BIO SCI 575	Evolutionary Biology
FRSHWTR 511	Ichthyology <sup>2</sup>

<b>Total Credits</b>		<b>34-41</b>
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<sup>1</sup> All courses taught as independent studies intended to fulfill the research requirement must have prior departmental approval.

<sup>2</sup> Students may elect to take SFS course FRSHWTR 511 to earn credit toward the EEB option.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Department Advising

Students should contact an advisor ([uwm.edu/biology/undergraduate/advising/](http://uwm.edu/biology/undergraduate/advising/)) as soon as possible in their freshman year about required courses and the recommended course sequence within Biological Sciences programs. The student should attend fall or spring departmental Open Advising or contact a Department of Biological Sciences faculty advisor ([uwm.edu/biology/undergraduate/advising/](http://uwm.edu/biology/undergraduate/advising/)) who will then guide the student in planning his/her course choices to accomplish his/her goals. Students should consult their College academic advisors in Holton Hall and their

faculty advisors in the Department of Biological Sciences prior to each registration period.

#### Major or Minor Declaration:

Biological Sciences students should be enrolled in Bio Sci 150 before officially declaring a major in Biological Sciences. Students can declare a major or minor by contacting a faculty advisor in Biological Sciences or attending fall or spring departmental Open Advising. Students can declare more than one major or a combination of major and minors ([uwm.edu/biology/undergraduate/declare-majorminor/](http://uwm.edu/biology/undergraduate/declare-majorminor/) (<http://uwm.edu/biology/undergraduate/declare-majorminor/>)).

**Failure to complete a declaration of major may result in a delay in graduation.**

## Honors in the Major

Students in Biological Sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major; and
4. Complete a laboratory or field research independent study (BIO SCI 695, BIO SCI 697, BIO SCI 698, or BIO SCI 699) or internship (BIO SCI 489 or CES 489).

Students who believe they may qualify for honors in Biological Sciences should apply to the Department of Biological Sciences during their last semester of study.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biological Sciences, BS

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and

with the environment by examining behavior, morphology, physiology and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology.

Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in healthcare, agriculture, natural resources and environmental sciences, food management, bioremediation, as well as the biomedical and biotechnology fields. A degree in Biological Sciences also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	

MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4

MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

**IV. International Requirement**

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways: 9		
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a

2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

## Declaring the Major

To declare the major in Biological Sciences, a student must first complete BIO SCI 150 successfully with a grade of C or better.

## Biological Sciences Major Requirements

The Biological Sciences major requires the following:

- A minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level.
- At least 15 of the advanced credits must be taken in residence at UWM.
- Completion of four (4) laboratory courses.
- A GPA of 2.0 in Biological Sciences courses attempted at UWM.
- A GPA of at least 2.0 in all major credits attempted, including any transfer work.

No more than eight (8) credits in 100-level courses in Biological Sciences may be applied toward the major, and students may not combine BIO SCI 150, BIO SCI 202, and BIO SCI 203 for more than 9 credits toward the major. A combined limit of 6 credits in the following list count towards the major:

Code	Title	Credits
BIO SCI 290	Independent Study and Research:	
BIO SCI 489	Internship in Biological Sciences, Upper Division	
BIO SCI 695	Independent Study in Freshwater Sciences for Biological Sciences Students	
BIO SCI 697	Independent Study in Cell and Molecular Biology	
BIO SCI 698	Independent Study in Microbiology	
BIO SCI 699	Independent Study	
HONORS 686	Research in Honors	
HONORS 687	Senior Honors Project	
HONORS 689	Senior Honors Thesis	

At least 20 credits at the advanced level (300 and above) must be taken in in BIO SCI courses.

Students who plan to attend graduate or professional schools are advised to take the one-year sequence of Organic Chemistry with lab, a course in Biochemistry (CHEM 501), and two semesters of Calculus. For those pursuing the General or Cell and Molecular Biology option, CHEM 501 will also count towards the major.

Listed below are the foundational requirements for the three options, followed by the Biological Sciences major requirements for the three options:

Code	Title	Credits
<b>Math Foundation</b>		
Select one of the following:		4-5
MATH 211	Survey in Calculus and Analytic Geometry I	



MATH 213	Calculus with Life Sciences Applications
MATH 221	Honors Calculus I
MATH 231	Calculus and Analytic Geometry I

**Physical Sciences Foundation**

For students choosing the General Biology Option or the Cell and Molecular Biology (CMB) Option, select one of the following options: 9-10

Option 1:

PHYSICS 120	General Physics I (Non-Calculus Treatment)
PHYSICS 122	General Physics II (Non-Calculus Treatment)
PHYSICS 121	General Physics Laboratory I (Non-Calculus Treatment) (at least one semester)
or PHYSICS 123	General Physics Laboratory II (Non-Calculus Treatment)

Option 2:

PHYSICS 209	Physics I (Calculus Treatment)
PHYSICS 210	Physics II (Calculus Treatment)
PHYSICS 214	Lab Physics I (Calculus Treatment) (at least one semester)
or PHYSICS 215	Lab Physics II (Calculus Treatment)

Option 3:

PHYSICS 219	Physics I: Calculus-Based, Studio Format
PHYSICS 220	Physics II: Calculus-Based, Studio Format

For students choosing the Ecology and Evolutionary Biology (EEB) Option, select one of the following: 3-5

GEOG 120	Our Physical Environment
GEO SCI 100	Introduction to the Earth
GEO SCI 102	Principles of Historical Geology
GEO SCI 108	A History of Life
GEO SCI 150 & GEO SCI 151	Introduction to Ocean Sciences and Ocean Sciences Laboratory
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)
PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)
PHYSICS 219	Physics I: Calculus-Based, Studio Format
PHYSICS 220	Physics II: Calculus-Based, Studio Format

**Chemistry Foundation**

Part A:  
For all Biological Sciences majors: 10

CHEM 102	General Chemistry
CHEM 104	General Chemistry and Qualitative Analysis

Part B (required for students choosing the General Biology Option or the Cell and Molecular Biology (CMB) Option): <sup>1,2</sup>

Select one of the following options: 5-8

Option 1:

CHEM 341	Introductory Survey of Organic Chemistry
CHEM 342	Introductory Organic Chemistry Laboratory

Option 2:

CHEM 343	Organic Chemistry
CHEM 344	Organic Chemistry Laboratory
CHEM 345	Organic Chemistry

<sup>1</sup> For students choosing the Cell and Molecular Biology (CMB) option, CHEM 343, CHEM 344, and CHEM 345 (option 2) are required, and a second physics lab is strongly recommended.

<sup>2</sup> For students choosing the Ecology and Evolutionary Biology (EEB) Option, there is no Organic Chemistry (Part B) requirement, though it is advised for certain subfields. Consultation with your departmental advisor is strongly recommended, particularly for students who plan to attend graduate or professional schools.

**General Biology Option**

Code	Title	Credits
<b>Required Biological Sciences Course</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 325	Genetics	4

Select at least one of the following: 4-5

BIO SCI 310	General Ecology
BIO SCI 315 & BIO SCI 316	Cell Biology and Laboratory in Genetics and Cell Biology
BIO SCI 383	General Microbiology

**Research Requirement <sup>1</sup>**

Select one of the following: 1-6

BIO SCI 611	Seminar on Recent Advances in Limnology and Oceanography
BIO SCI 670	Senior Seminar in Biological Sciences
BIO SCI 671	Undergraduate Seminar in Microbiology
BIO SCI 672	Undergraduate Seminar in Cell and Molecular Biology
HONORS 686	Research in Honors
HONORS 687	Senior Honors Project
HONORS 689	Senior Honors Thesis
BIO SCI 695	Independent Study in Freshwater Sciences for Biological Sciences Students
BIO SCI 697	Independent Study in Cell and Molecular Biology
BIO SCI 698	Independent Study in Microbiology
BIO SCI 699	Independent Study

Research Requirement option for Biological Sciences/  
Conservation and Environmental Sciences (CES) double majors  
only:

CES 471	Practicum in Natural Resources Management
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#### Laboratory Course Requirement

A total of 4 labs courses are required for the major. This  
requirement may be satisfied by the courses listed above; if not,  
select additional lab courses from the list below. 1-4

BIO SCI 202	Anatomy and Physiology I
BIO SCI 203	Anatomy and Physiology II
BIO SCI 310	General Ecology (if not selected above)
BIO SCI 316	Laboratory in Genetics and Cell Biology (if not selected above)
BIO SCI 383	General Microbiology (if not selected above)
BIO SCI 358	Birds of Wisconsin
BIO SCI 451	Field Methods in Conservation
BIO SCI 501	Plant and Aquatic Ecophysiology Laboratory
BIO SCI 539	Laboratory Techniques in Molecular Biology
BIO SCI 543	Scanning Electron Microscopy Laboratory
BIO SCI 544	Transmission Electron Microscopy Laboratory
BIO SCI 580	Experimental Microbiology

#### Electives

Select electives to reach a minimum of 34 credits in Biological  
Sciences, of which 26 must be at the advanced (300 and above)  
level.<sup>2,3</sup> 16

**Total Credits** 34-43

<sup>1</sup> All courses taught as independent studies intended to fulfill the  
research requirement must have prior departmental approval.

<sup>2</sup> Up to six credits from the following courses  
may be counted as electives in the major:  
CHEM 501, ANTHRO 301, BMS 534, BMS 535, PSYCH 254, and  
PSYCH 654.

<sup>3</sup> Students may elect to take these SFS courses  
(FRSHWTR 511, FRSHWTR 563 and FRSHWTR 567) to earn credit  
toward the Biology major provided that they earn 30 advanced credits  
in Natural Sciences within the College of Letters and Science, as  
required for the BS degree.

### Cell and Molecular Biology Option

Code	Title	Credits
<b>Core Courses</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 315	Cell Biology	3
BIO SCI 316	Laboratory in Genetics and Cell Biology	2
BIO SCI 325	Genetics	4
<b>Laboratory Course Requirement</b>		
Select at least one of the following:		1-4
BIO SCI 203	Anatomy and Physiology II	

BIO SCI 383	General Microbiology
BIO SCI 501	Plant and Aquatic Ecophysiology Laboratory
BIO SCI 539	Laboratory Techniques in Molecular Biology
BIO SCI 543	Scanning Electron Microscopy Laboratory
BIO SCI 544	Transmission Electron Microscopy Laboratory
BIO SCI 580	Experimental Microbiology

#### Research Requirement <sup>1</sup>

BIO SCI 672	Undergraduate Seminar in Cell and Molecular Biology	1-3
or BIO SCI 697	Independent Study in Cell and Molecular Biology	

#### Electives

Select additional Cell and Molecular Biology courses to reach a  
minimum of 34 credits in Biological Sciences, of which 26 must  
be at the advanced (300 and above) level. 15

BIO SCI 335	Mammalian Reproductive Biology
BIO SCI 356	Developmental Biology
BIO SCI 370	Mammalian Physiology
BIO SCI 401	Immunology
BIO SCI 405	General Virology
BIO SCI 455	Cellular, Molecular and Developmental Neurobiology
BIO SCI 490	Molecular Genetics
BIO SCI 498	Genetics of Development and Cancer
BIO SCI 500	Plant Physiology
BIO SCI 529	Molecular Biology of Microorganisms
BIO SCI 535	Bacterial Pathogenesis
BIO SCI 540	Microbial Diversity and Physiology
BIO SCI 542	Biological Electron Microscopy
BIO SCI 564	Endocrinology
BIO SCI 565	Gene Regulation in Stem Cells and Regeneration
BIO SCI 566	Cell Biology of Human Disease
BIO SCI 572	Functional Genomics
CHEM 501	Introduction to Biochemistry

**Total Credits** 34-39

<sup>1</sup> All courses taught as independent studies intended to fulfill the  
research requirement must have prior departmental approval.

### Ecology, Evolution, and Behavior Option

Code	Title	Credits
<b>Required Biological Sciences Courses</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 310	General Ecology	4
BIO SCI 325	Genetics	4
BIO SCI 465	Biostatistics	3
<b>Laboratory Course Requirement</b>		
Select at least one of the following:		2-4

BIO SCI 358	Birds of Wisconsin
BIO SCI 383	General Microbiology
BIO SCI 451	Field Methods in Conservation
BIO SCI 501	Plant and Aquatic Ecophysiology Laboratory
BIO SCI 502	Introduction to Programming and Modeling in Ecology and Evolution
BIO SCI 539	Laboratory Techniques in Molecular Biology
BIO SCI 543	Scanning Electron Microscopy Laboratory
BIO SCI 544	Transmission Electron Microscopy Laboratory

**Research Requirement**<sup>1</sup>

Select one of the following: 1-6

BIO SCI 611	Seminar on Recent Advances in Limnology and Oceanography
BIO SCI 670	Senior Seminar in Biological Sciences
BIO SCI 695	Independent Study in Freshwater Sciences for Biological Sciences Students
BIO SCI 699	Independent Study
CES 471	Practicum in Natural Resources Management
HONORS 686	Research in Honors
HONORS 687	Senior Honors Project
HONORS 689	Senior Honors Thesis

**Additional Electives**

Select electives to reach a minimum of 34 credits in Biological Sciences, of which 26 must be at the advanced (300 and above) level. 12

BIO SCI 370	Mammalian Physiology
BIO SCI 401	Immunology
BIO SCI 406	Marine Biology
BIO SCI 440	Ecology and Evolution of Amphibians and Reptiles
BIO SCI 458	Community Ecology
BIO SCI 469	Genomic Data Analysis
BIO SCI 480	Ecological Genetics
BIO SCI 500	Plant Physiology
BIO SCI 505	Conservation Biology
BIO SCI 512	Limnology I
BIO SCI 532	Behavioral Ecology
BIO SCI 540	Microbial Diversity and Physiology
BIO SCI 562	Topics in Field Biology:
BIO SCI 575	Evolutionary Biology
FRSHWTR 511	Ichthyology <sup>2</sup>

**Total Credits****34-41**<sup>1</sup> All courses taught as independent studies intended to fulfill the research requirement must have prior departmental approval.<sup>2</sup> Students may elect to take SFS course FRSHWTR 511, to earn credit toward the EEB option provided that they earn 30 advanced credits in

Natural Sciences within the College of Letters and Science, as required for the BS degree.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Department Advising

Students should contact an advisor ([uwm.edu/biology/undergraduate/advising/](http://uwm.edu/biology/undergraduate/advising/)) as soon as possible in their freshman year about required courses and the recommended course sequence within Biological Sciences programs. The student should attend fall or spring departmental Open Advising or contact a Department of Biological Sciences faculty advisor ([uwm.edu/biology/undergraduate/advising/](http://uwm.edu/biology/undergraduate/advising/)) who will then guide the student in planning his/her course choices to accomplish his/her goals. Students should consult their College academic advisors in Holton Hall and their

faculty advisors in the Department of Biological Sciences prior to each registration period.

#### Major or Minor Declaration:

Biological Sciences students should be enrolled in BIO SCI 150 before officially declaring a major in Biological Sciences. Students can declare a major or minor by contacting a faculty advisor in Biological Sciences or attending fall or spring departmental Open Advising. Students can declare more than one major or a combination of major and minors ([uwm.edu/biology/undergraduate/declare-majorminor/](http://uwm.edu/biology/undergraduate/declare-majorminor/) (<http://uwm.edu/biology/undergraduate/declare-majorminor/>)).

**Failure to complete a declaration of major may result in a delay in graduation.**

## Honors in the Major

Students in biological sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major; and
4. Complete a laboratory or field research independent study (BIO SCI 697, BIO SCI 698, or BIO SCI 699) or internship (BIO SCI 489 or CES 489).

Students who believe they may qualify for honors in biological sciences should apply to the Department during their last semester of study.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biological Sciences, Minor

Biology is the study of life. Biologists analyze organism functions at the cellular and molecular levels using genetics, biochemistry, and microscopy. They also study interactions between organisms and with the environment by examining behavior, morphology, physiology

and genetics. Students can take a broad curriculum within Biological Sciences or focus on specific areas, such as ecology, evolution and behavior, cell and molecular biology, or microbiology.

Studies in Biological Sciences have applications across many areas including agriculture, medicine, and the environment. Biological Sciences is a popular choice for students preparing for careers in healthcare, agriculture, natural resources and environmental sciences, food management, bioremediation, as well as the biomedical and biotechnology fields. A minor in Biological Sciences also prepares students for professional careers in medicine, dentistry, pharmacy, veterinary science, and education, and graduate studies in the life sciences.

## Requirements

At least 9 credits must be taken at or above the 300 level in residence at UWM. Students must maintain a GPA of 2.0 in minor courses attempted at UWM. In addition, students must attain a GPA of 2.0 in all minor courses attempted, including any transfer work. The minor consists of 19 credits in Biological Sciences including the following:

Code	Title	Credits
<b>Core Introductory Sequence</b>		
BIO SCI 150 & BIO SCI 152	Foundations of Biological Sciences I and Foundations of Biological Sciences II	8
<b>Gateway</b>		
Select at least one of the following:		4-6
BIO SCI 310	General Ecology	
BIO SCI 315 & BIO SCI 316	Cell Biology and Laboratory in Genetics and Cell Biology	
BIO SCI 325 & BIO SCI 316	Genetics and Laboratory in Genetics and Cell Biology	
BIO SCI 383	General Microbiology	
<b>Additional Requirements</b>		
Select at least 7 additional credits in courses that carry credit toward the major		7
<b>Total Credits</b>		<b>19-21</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the

program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Biological Sciences, MS

The Department of Biological Sciences offers graduate programs in biology with areas of concentration in botany; microbiology; cellular and molecular biology; genetics; physiology and morphology of plants and animals; terrestrial and aquatic ecology; behavioral biology; conservation biology; and evolution.

Both a thesis and non-thesis track are offered within the MS degree. The thesis track is a research-based degree and is intended for students pursuing careers in formal research or planning to continue study towards the PhD degree. The non-thesis track is a coursework-intensive MS degree designed for students desiring a graduate education to enhance employment opportunities or prior to obtaining a professional degree. Students may switch from the non-thesis track to the thesis track if all requirements are met and with written approval of the student's advisor and the Graduate Program Director.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Fall Semester

- 12/01 - MS Thesis Track
- 05/01 - MS Non-Thesis Track

#### Spring Semester

- 10/01 - MS Non-Thesis Track

#### Thesis Track

Students are required to maintain full-time status and develop a formal thesis to earn the degree. Admission is during the fall semester only. When applying for admission, applicants should describe in their personal statement as completely as possible their specific research interests within biological sciences. Applicants are strongly encouraged to establish contact, before or during the application process, with Biological Sciences faculty members whose research interests are closest to their own, regarding the likelihood of one serving as the student's major professor. To assist the applicant in this process, a Biological Sciences Graduate Program brochure is available, which describes the research activities of the faculty. The brochure can be obtained by contacting the departmental office.

#### Non-Thesis Track

Students may enroll part-time and complete the degree at a slower pace or enroll full time to earn the degree faster. Students may be admitted during the fall or spring semesters. The accelerated degree is especially well suited for those students seeking to improve their academic record prior to applying to professional schools such as medical school, veterinary school, pharmacy school, dental school, etc. The course requirements for the program are highly adaptable to meet the student's goals such as completion of admission requirements, exploring a secondary area of interest, or gaining hands-on laboratory research experience. When applying for admission, applicants should

describe their career goals in their personal statement as completely as possible to ensure assignment of the appropriate advisor.

### Additional Admission Requirements

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the Biological Sciences Master's program. Track-specific requirements are also noted:

1. Undergraduate coursework equivalent to the Biological Sciences major at UWM, including coursework in the following areas of plant or animal science: cellular and molecular biology or genetics; organismal biology; ecology. Additional coursework in chemistry through organic or biochemistry; mathematical preparation including at least one course in calculus, statistics, or biometry; and a year of physics are strongly encouraged.
2. Submission of official scores:
  - a. **Thesis Track:** Optional submission of official scores from the General Test of the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>).
  - b. **Non-Thesis Track:** Optional submission of official scores from the General Test of the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>), Medical College Admission Test (MCAT), Dental Admission Test (DAT), Pharmacy College Admission Test (PCAT), or Praxis test. Submitted test scores may be used as additional evidence of academic ability.
3. At least two letters of recommendation from persons familiar with the applicant's scholarship.
4. **Thesis Track:** Submission of a resume/CV.
5. International students must meet the minimum department requirements for English proficiency:
  - a. **Thesis Track:**
    - i. Completion of a baccalaureate or higher degree within the last two years from an institution where English is the sole language of instruction with a minimum of two years attendance; or
    - ii. A minimum required TOEFL score of 79 overall with a minimum required score of 23 on the Speaking portion; or
    - iii. A minimum required IELTS score of 6.5 overall with a minimum required score of 7.0 on the Speaking portion; or
    - iv. A minimum required CAE score of C1 overall with a minimum required score of 185 on the Speaking portion.
  - b. **Non-Thesis Track:**
    - i. Completion of a baccalaureate or higher degree within the last two years from an institution where English is the sole language of instruction with a minimum of two years attendance; or
    - ii. A minimum required TOEFL score of 79 overall with a minimum recommended sub-score of 18 in each skill; or
    - iii. A minimum required IELTS score of 6.5 overall with a minimum recommended sub-score of 6.0 on each skill; or
    - iv. A minimum required CAE score of C1 overall with a minimum recommended sub-score of 170 on any given language skill test.

## Credits and Courses

### Thesis Track

Minimum degree requirement is 30 graduate credits, at least 24 of which must be in biological sciences and up to 6 of which may be in related courses. Of the 30 graduate credits, 15 must be taken at the graduate-

only course level. Of the 24 biological sciences credits, at least 12 must be course or seminar credits. The student must take at least two seminars during the course of the student's program up to a maximum of 4 credits counting toward the degree; and enroll in Biology Colloquium (BIO SCI 900) each semester with a maximum of 4 colloquium credits counting toward the degree. The student must enroll in a minimum of 12 credits in research (BIO SCI 990). The student plans a program of studies in consultation with the major professor. If desired, a special area of concentration (botany, microbiology, physiology) may be declared. A cumulative GPA of a 3.0 or higher on a 4.0 scale is required to receive the MS degree.

### Non-Thesis Track

Minimum degree requirement is 30 graduate credits, at least 20 of which must be in courses offered by the Department of Biological Sciences. Of the 30 graduate credits, 15 must be taken at the graduate-only course level.

Code	Title	Credits
<b>Biological Science Requirements</b>		
Select at least one laboratory course		
Select two of the following seminars that require a presentation (up to a maximum of 4 credits):		
BIO SCI 925	Graduate Seminar in Biological Sciences	
BIO SCI 929	Special Topics in Ecology, Evolution and Behavior	
BIO SCI 931	Seminar in Systematic Biology and Evolution:	
BIO SCI 933	Seminar in Neuroscience	
BIO SCI 934	Research Advances in Cell and Molecular Biology	
BIO SCI 935	Research Advances in Ecology, Evolution and Behavior	
BIO SCI 936	Research Advances in Microbiology	
Select up to 6 credits of the following:		
BIO SCI 899	Advanced Independent Studies	
Select up to 2 credits of the following:		
BIO SCI 900	Biology Colloquium	

### Additional Requirements

Select additional graduate credits to fulfill the required total of 30 credits<sup>1</sup>

<sup>1</sup> Any remaining course work may be completed in other departments within UWM with the approval of the student's advisor and the Graduate Program Director.

A cumulative GPA of a 3.0 or higher on a 4.0 scale is required to receive the MS degree.

### Additional Graduation Requirements

All students must submit three examples of any of the following projects that have been completed and graded during their graduate studies: paper, poster or presentation. These projects must demonstrate the student's ability to read and understand current scientific literature in the biological sciences and apply this acquired knowledge. At least one of these must be from a laboratory course or experience. These documents must be submitted to the Graduate Program Director and will be used as

a portfolio to demonstrate the student's analytic and scientific writing abilities.

## Additional Requirements

### Thesis Track

#### MS Graduate Advisory Committee

The MS Graduate Advisory Committee is selected by the major professor in consultation with the student, by the end of the first year of enrollment. The MS Advisory Committee consists of the major professor and two other graduate faculty members. The Committee must meet at least once a year to monitor and formally report on the student's academic and research progress.

#### Oral Examination

The student must pass an MS oral examination. The examination should be taken by the end of the first year of enrollment and must be taken no later than the end of the second year of enrollment. The student's MS Advisory Committee administers the oral examination.

#### Thesis

Students must prepare and defend a formal thesis reporting the results of their research. During the final year of study, students must present a seminar on their research, with prior public announcement. Submission of the final thesis to the Graduate School is required to complete the MS degree.

#### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The Graduate Committee assigns a faculty advisor as a necessary prerequisite to admission.

#### Time Limit

Student must complete all degree requirements within five years of initial enrollment.

### Non Thesis Track

#### MS Graduate Advisor

Upon admission to the program, the student will be assigned an advisor whose research background is similar to the student's stated area of interest and career goals. Students may request a specific advisor from the faculty list; however, requesting an advisor does not guarantee availability. During the first semester of study the student and advisor must complete and submit a Plan of Study to the Graduate Program Director. The Plan of Study will detail the coursework to be taken for completion of the degree and can be modified at any time during the program.

#### Time Limit

Student must complete all degree requirements within three years of initial enrollment.

## Biological Sciences, PhD

The Department of Biological Sciences offers graduate programs in biology with areas of concentration in botany; microbiology; cellular and molecular biology; genetics; physiology and morphology of plants and animals; terrestrial and aquatic ecology; behavioral biology; conservation biology; and evolution.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements to be considered for admission:

- Applicant must present at least 30 credits in one or more areas of biological sciences and must show substantial evidence of scholarly potential. A master's degree is not prerequisite for admission to the PhD program.
- Other academic preparation: a year of general physics including at least one semester of laboratory; one year of general college chemistry with laboratory, plus at least one semester of organic chemistry with laboratory or biochemistry with laboratory; two courses in college mathematics chosen from among courses in calculus, biometry or statistics.
- Submission of a resume/CV.
- Optional submission of scores on the General Test of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>).
- Acceptance by a faculty member in the program who will act as major professor (sponsor): see Major Professor as Advisor.
- Three letters of recommendation from persons familiar with the applicant's scholarship, research achievements and potential.

Applicants may be admitted with specific course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements with a grade of C or better within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. The student is expected to maintain a grade of B in all other coursework.

### Reapplication

A student in the MS program, or who receives the master's degree at UWM, must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM.

Code	Title	Credits
	Select at least 27 credits in formal coursework and seminars	27
	Select 4 colloquium credits	4
	Select 23 credits in independent reading and/or study, or research	23
	<b>Total Credits</b>	<b>54</b>

At least 30 of the 54 credits must be in biological sciences; 12 credits may be earned in allied sciences, including those in the secondary area of concentration or minor field(s).

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The graduate committee assigns the incoming biological sciences student to an advisor whose experience and research most closely approximates the student's own career interests. Before the student's preliminary examination either this initially assigned advisor or another qualified staff member is designated as the student's major professor.

### Secondary Area of Concentration

The student must select a secondary area of concentration either within biological sciences or in an allied science, and must present at least 9 credits of coursework in that area to the departmental Graduate Committee. A university minor (option A or B) may qualify as a secondary area of concentration upon approval by the departmental Graduate Committee.

### Language or Data Analysis Proficiency

The student must demonstrate proficiency either in a foreign language or data analysis. The student can demonstrate language proficiency in one language other than English (German, French, Russian or Spanish preferred), either through examinations or through 12 credits of specified coursework, either before or after admission to the program. The student can demonstrate proficiency in data analysis by presenting 12 credits in one or more of the following: mathematics (200-level or above), statistics, computer science.

### Residence

The student must meet Graduate School residence requirements (<http://uwm.edu/graduateschool/doctors-requirements/#residence>).

### PhD Advisory Committee

The PhD Advisory Committee shall be selected by the major professor in consultation with the student by the end of the first year of enrollment. The PhD Advisory Committee shall consist of the major professor and four other graduate faculty members. One of the faculty should reflect competency in the secondary area of concentration. When the advisory committee is formed, the student must prepare a departmental "certification document" for the approval of the committee. The committee must meet at least once a year to monitor and formally report on the student's academic and research progress.

### Dissertation Proposal and Doctoral Preliminary Examination

Prior to the doctoral preliminary examination, the student submits a preliminary written dissertation proposal to the student's PhD Advisory Committee and delivers an oral presentation of relevant research in progress. The doctoral preliminary examination is in two parts. Part I is a written exam; Part II is an oral exam. Parts I and II of the doctoral preliminary examination must be taken with a warrant from the Graduate School; and must be taken before the end of the second or third year of full-time enrollment (before completion of 24 or 36 credits for students with a MS or B.S. degree, respectively). Deviation from this plan must be approved by the Graduate Committee.

### Dissertator Status

Specific requirements which must be completed before the Graduate School places a doctoral student in dissertator status are described in the Doctor of Philosophy Degree requirements (<http://uwm.edu/graduateschool/doctors-requirements/>) section.

## Dissertation

In consultation with the major professor the candidate must select a suitable research project and submit a written research plan. The final dissertation proposal constitutes the student's written research plan which is subject to approval of the PhD Advisory Committee. This plan is to be submitted to the Department. The research plan will be reviewed for progress annually. During the final year of study the candidate must present a seminar, with prior public announcement, on this research and must prepare a dissertation reporting the results of this research. The original research findings embodied in this dissertation should be acceptable for publication in a refereed journal.

## Dissertation Defense

As the final step toward the degree the candidate must defend the dissertation before the PhD Advisory Committee.

## Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program. For additional information on Graduate School PhD requirements, see the Doctor of Philosophy Degree requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>) section.

# Microbiology, BS

Microbiology is the study of microorganisms (bacteria, archaea, protists, fungi) and viruses. The Department offers a BS in microbiology with research opportunities to conduct original research and investigate different aspects of microbial structure and function.

Microorganisms were the first living things on earth, and they remain the most abundant and the most diverse of all organisms. They can cause diseases of plants, animals and humans; they play critical roles in biogeochemical cycles and bioremediation; and they are important in the food and biotechnology industries.

As a microbiologist, students will be on the cutting edge of developments in public health, industrial production processes, biotechnology, and drug discovery. The microbiology major prepares students for a variety of careers in the fields of microbiology, virology, molecular biology, biotechnology, and health related professions, for graduate studies in medical microbiology, industrial microbiology, environmental microbiology, microbial biotechnology, and molecular biology, and for professional studies in pharmacy, dentistry, and medicine.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they

entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.



## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to

select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

# Microbiology Major Requirements

Microbiology is the study of microorganisms such as bacteria, archaea, protists, fungi, and viruses. Prospective Microbiology majors should consult with a faculty advisor as early as possible, preferably before the beginning of the junior year, in order to outline an appropriate course of study. Students should consult their advisor at least once each semester.

At least 15 credits of advanced (300 and above) Microbiology courses must be taken in residence at UWM. Students must attain an average GPA of 2.0 in Microbiology courses attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

## Requirements

The Microbiology major requires a minimum of 34 credits in Microbiology. The required and elective courses in Biological Sciences, CHEM 501, and BMS 534, BMS 535, BMS 539, and BMS 540 count as "Microbiology" courses for this purpose. A combined limit of 6 credits in BIO SCI 290, BIO SCI 695, BIO SCI 697, BIO SCI 698, and BIO SCI 699 counts toward the major.

Code	Title	Credits
<b>Required</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 325	Genetics	4
BIO SCI 383	General Microbiology	4
Select two of the following:		6

BIO SCI 529	Molecular Biology of Microorganisms	
BIO SCI 535	Bacterial Pathogenesis	
BIO SCI 540	Microbial Diversity and Physiology	
<b>Research Requirement</b>		
Select credits in the following:		
BIO SCI 495	Internship in Biotechnology, Upper Division	
BIO SCI 671	Undergraduate Seminar in Microbiology	
BIO SCI 698	Independent Study in Microbiology	
BIO SCI 699	Independent Study <sup>1</sup>	
HONORS 686	Research in Honors <sup>1</sup>	
HONORS 687	Senior Honors Project <sup>1</sup>	
HONORS 689	Senior Honors Thesis <sup>1</sup>	
<b>Microbiology Electives</b>		
BIO SCI 315	Cell Biology	3
or CHEM 501	Introduction to Biochemistry	
Select one of the following:		4
BIO SCI 539	Laboratory Techniques in Molecular Biology	
BIO SCI 580	Experimental Microbiology	
Select additional elective credits (see below)		
<b>Other Requirements</b>		
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
Select one of the following:		4-5
MATH 211	Survey in Calculus and Analytic Geometry I	
MATH 213	Calculus with Life Sciences Applications	
MATH 221	Honors Calculus I	
MATH 231	Calculus and Analytic Geometry I	
Select one of the following:		3-5
MTHSTAT 215	Elementary Statistical Analysis	
MATH 222	Honors Calculus II	
MATH 232	Calculus and Analytic Geometry II	
BIO SCI 465	Biostatistics	
Select one of the following options:		9-10
<b>Option 1:</b>		
PHYSICS 120	General Physics I (Non-Calculus Treatment)	
PHYSICS 122	General Physics II (Non-Calculus Treatment)	
PHYSICS 123	General Physics Laboratory II (Non-Calculus Treatment)	
<b>Option 2:</b>		
PHYSICS 209	Physics I (Calculus Treatment)	
PHYSICS 210	Physics II (Calculus Treatment)	
PHYSICS 215	Lab Physics II (Calculus Treatment)	
<b>Option 3:</b>		

PHYSICS 219	Physics I: Calculus-Based, Studio Format
PHYSICS 220	Physics II: Calculus-Based, Studio Format
<b>Total Credits</b>	<b>63-67</b>

<sup>1</sup> When determined by the student's Microbiology faculty advisor to have Microbiology content.

## Additional Electives

Students choose courses from this list to complete their 26 credits of upper-level (300 or above) microbiology courses.

Code	Title	Credits
BIO SCI 315	Cell Biology	3
BIO SCI 316	Laboratory in Genetics and Cell Biology	2
BIO SCI 401	Immunology	3
BIO SCI 405	General Virology	3
BIO SCI 465	Biostatistics	3
BIO SCI 469	Genomic Data Analysis	2
BIO SCI 490	Molecular Genetics	3
BIO SCI 529	Molecular Biology of Microorganisms (if not selected above)	3
BIO SCI 535	Bacterial Pathogenesis (if not selected above)	3
BIO SCI 539	Laboratory Techniques in Molecular Biology (if not selected above)	4
BIO SCI 540	Microbial Diversity and Physiology (if not selected above)	3
BIO SCI 542	Biological Electron Microscopy	3
BIO SCI 544	Transmission Electron Microscopy Laboratory	3
BIO SCI 572	Functional Genomics	3
BIO SCI 580	Experimental Microbiology	4
CHEM 501	Introduction to Biochemistry	3
CHEM 601	Biochemistry: Protein Structure and Function	3
BMS 534	Medical Microbiology <sup>2</sup>	3
BMS 535	Medical Microbiology Laboratory <sup>2</sup>	2
BMS 539	Public Health Microbiology <sup>2</sup>	2
BMS 540	Public Health Microbiology Lab <sup>2</sup>	2

<sup>1</sup> Only BIO SCI 699 or HONORS 686, HONORS 687, or HONORS 689 projects that are determined by the student's microbiology faculty advisor to have microbiology content count toward the major.

<sup>2</sup> Students may elect to take these BMS courses to earn credit toward the Microbiology major option provided that they earn 30 advanced credits in Natural Sciences within the College of Letters and Science, as required for the BS degree.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your

entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Department Advising

Students should contact an advisor ([uwm.edu/biology/undergraduate/advising/](http://uwm.edu/biology/undergraduate/advising/)) as soon as possible in their freshman year about required courses and the recommended course sequence within Biological Sciences programs. The student should attend fall or spring departmental Open Advising or contact a Department of Biological Sciences faculty advisor ([uwm.edu/biology/undergraduate/advising/](http://uwm.edu/biology/undergraduate/advising/)) who will then guide the student in planning his/her course choices to accomplish his/her goals. Students should consult their College academic advisors in Holton Hall and their faculty advisors in the Department of Biological Sciences prior to each registration period.

### Major or Minor Declaration:

Biological Sciences students should be enrolled in BIO SCI 150 before officially declaring a major in Biological Sciences. Students can declare a major or minor by contacting a faculty advisor in Biological Sciences or attending fall or spring departmental Open Advising. Students can declare more than one major or a combination of major and minors

([uwm.edu/biology/undergraduate/declare-major/minor/](http://uwm.edu/biology/undergraduate/declare-major/minor/) (<http://uwm.edu/biology/undergraduate/declare-major/minor/>)).

**Failure to complete a declaration of major may result in a delay in graduation.**

## Honors in the Major

Students in biological sciences who meet all of the following criteria are awarded honors in the major upon graduation:

1. 3.500 cumulative GPA in all UWM graded credits attempted;
2. 3.750 GPA in UWM courses counting toward the major;
3. 3.500 GPA in all advanced credits that count toward the major; and
4. Complete a laboratory or field research independent study (BIO SCI 697, BIO SCI 698, or BIO SCI 699) or internship (BIO SCI 489 or CES 489).

Students who believe they may qualify for honors in biological sciences should apply to the Department during their last semester of study.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Neuroscience, BS (Department of Biological Sciences)

Neuroscience is a multidisciplinary science dedicated to understanding how nervous systems are built and function at different scales, from molecules and cells to circuits and systems. Neuroscientists are involved in work to improve the human condition with new discoveries that could prevent or treat neurodevelopmental defects and disorders, psychiatric disorders, and neurodegenerative diseases.

The Neuroscience major is listed under both the Department of Biological Sciences and the Department of Psychology. The requirements are the same in both listings.

A neuroscience major is an excellent starting point for a career in human or animal medicine, psychology, medical research, pharmaceuticals, public health or science writing. Entry level jobs for students with a bachelor's degree include positions as assistants in hospitals and private healthcare clinics; as technicians in academic, governmental, or commercial research laboratories; in pharmaceutical sales and marketing; and in government agencies and nonprofits in roles related to grant writing, regulatory management, or technical assistance. Many of these occupational areas are projected to grow faster than average in the next decade. The average annual salary for a neuroscientist with a BS degree is \$66,975 (as of 2021). The major is also excellent preparation for students pursuing doctoral degrees in medicine, medical research, or professional counseling.

The courses for the major come primarily from the Department of Biological Sciences and the Department of Psychology. Students will learn about the structure and function of nervous systems, from the cellular level to the systems level; the connections between the brain and behavior; experimental design and research methods; and data analysis, interpretation, and use. Within the major students can take coursework in neuroscience subdisciplines such as cognitive, cellular and molecular, or computational neuroscience.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.	9
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		
	Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *	12
<b>Cultural Diversity</b>		
	Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires

that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

### Declaring the Major

To be accepted as a major in Neuroscience, students must have completed both PSYCH 101 and BIO SCI 150 with a C or better in each of those classes.

### Degree Requirements

The program requires at least 120 credits, which include University-wide General Education Requirements (p. 30), 24 credits of mandatory preparatory courses, 23-24 credits of required core courses, 11 credits of elective courses within the major, a research experience course at the end of the coursework, and additional elective courses to fulfill the overall credit requirement.

An overall GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve a 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.000 GPA must be earned on all 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree at UWM by completing at least 15 credits in the upper-division (numbered 300 or above) courses in the major.

Code	Title	Credits
<b>Preparatory courses</b>		
<i>Chemistry</i>		
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 343	Organic Chemistry	3
CHEM 345	Organic Chemistry	3
<i>Physics</i>		
PHYSICS 120	General Physics I (Non-Calculus Treatment)	4
or PHYSICS 209	Physics I (Calculus Treatment)	
PHYSICS 122	General Physics II (Non-Calculus Treatment)	4
or PHYSICS 210	Physics II (Calculus Treatment)	
<b>Total Credits</b>		<b>24</b>
<b>Required courses</b>		
<i>Biological Sciences</i>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4

BIO SCI 315	Cell Biology	3
BIO SCI 455	Cellular, Molecular and Developmental Neurobiology	3
<i>Psychology</i>		
PSYCH 101	Introduction to Psychology	3
PSYCH 254	Introduction to Neuroscience	3
<i>One of these courses in statistics:</i>		3-4
BIO SCI 465	Biostatistics	
MTHSTAT 215	Elementary Statistical Analysis	
PSYCH 210	Psychological Statistics	
<b>Total Credits</b>		<b>23-24</b>

Code	Title	Credits
<b>Required research experience (select one of the options below)</b>		
NEURO 690	Undergraduate Research in Neuroscience	3
BIO SCI 672	Undergraduate Seminar in Cell and Molecular Biology	1
BIO SCI 697	Independent Study in Cell and Molecular Biology <sup>1</sup>	1-3
BIO SCI 699	Independent Study <sup>1</sup>	1-3
PSYCH 654	Advanced Behavioral Neuroscience	4
PSYCH 656	Psychophysiology	4

<sup>1</sup> These independent study courses may be counted toward the research requirement in the Neuroscience major only with approval of the student's Neuroscience faculty advisor.

Code	Title	Credits
<b>Elective courses (select courses to complete 11 credits from the options below)</b>		
BIO SCI 203	Anatomy and Physiology II	4
BIO SCI 290	Independent Study and Research:	1-3
BIO SCI 316	Laboratory in Genetics and Cell Biology	2
BIO SCI 325	Genetics	4
BIO SCI 356	Developmental Biology	3
BIO SCI 370	Mammalian Physiology	3
BIO SCI 469	Genomic Data Analysis	2
BIO SCI 490	Molecular Genetics	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
BIO SCI 542	Biological Electron Microscopy	3
BIO SCI 543	Scanning Electron Microscopy Laboratory	2
BIO SCI 544	Transmission Electron Microscopy Laboratory	3
BIO SCI 564	Endocrinology	3
BIO SCI 565	Gene Regulation in Stem Cells and Regeneration	3
BIO SCI 566	Cell Biology of Human Disease	3
BIO SCI 572	Functional Genomics	3
BIO SCI 672	Undergraduate Seminar in Cell and Molecular Biology	1
BIO SCI 697	Independent Study in Cell and Molecular Biology	1-3

BMS 610	Pharmacology	3
CHEM 501	Introduction to Biochemistry	3
PSYCH 214	Introduction to Conditioning and Learning	3
PSYCH 290	Undergraduate Research: Lower Division	1-3
PSYCH 325	Research Methods in Psychology	4
PSYCH 433	Neuropsychology	3
PSYCH 454	Psychopharmacology and Addiction	3
PSYCH 503	Perception	3
PSYCH 510	Advanced Psychological Statistics	3
PSYCH 514		4
PSYCH 610	Experimental Design	3
PSYCH 611	Current Topics:	3
PSYCH 623	Perceptual Processes	4
PSYCH 627	Cognitive Neuroscience	3
PSYCH 645	Hormones and Behavior	3
PSYCH 654	Advanced Behavioral Neuroscience <sup>2</sup>	4
PSYCH 656	Psychophysiology <sup>2</sup>	4
PSYCH 657	Neurobiology of Learning and Memory	3
PSYCH 682	The Aging Brain	3
PSYCH 690	Undergraduate Research: Upper Division	1-3

<sup>2</sup> If not taken to satisfy research experience requirement.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;

- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

# Business and Technical Communications, Undergraduate Certificate

**Effective UWinterIM 2023, the Business and Technical Communications undergraduate certificate has suspended admission.**

In today's uncertain economy, it is more important than ever for workers to be multi-skilled and flexible in their professional areas. The Business and Technical Communications Undergraduate Certificate combines an innovative approach with practical skills in writing, research, communication, and technologies that will enable students to improve their skills for working in a broad range of contexts.

Students will develop competencies in communication that are critical to a wide range of contemporary jobs and organizations:

- Business and technical communication
- Strategic writing skills
- Organizational leadership skills

- Information design
- Project management

The Certificate is available via the University of Wisconsin System's Flexible Option.

The UW Flexible Option offers a new way to earn a college degree or certificate, different from both face-to-face classroom instruction and traditional online instruction (<https://flex.wisconsin.edu/degrees-programs/business-technical-communications/>). In the UW Flexible Option program, you will:

- Earn credit for what you know
- Advance at your own pace
- Receive personalized support
- Start when you want, at the beginning of any month
- Learn skills employers value

## Eligibility

Students who wish to enroll in the Undergraduate Certificate must be admitted to the UW Flexible Option (<https://flex.wisconsin.edu/getting-started/admission/>) and will have to meet the basic prerequisites of the courses that are equivalent to each given competency set. For ENGLISH 206, that will mean having passed or tested out of ENGLISH 102. All other courses in the Certificate require ENGLISH 206 as a prerequisite. Post-baccalaureate special students and non-degree students will be awarded the Certificate upon successful completion of all program requirements.

**Effective UWinterIM 2023, the Business and Technical Communications undergraduate certificate has suspended admission.**

## Program Requirements

To obtain the certificate, students first must complete ENGLISH 206, after which they may study the additional competency sets in any order. Completing the Undergraduate Certificate means having gained credit in all six courses, with a minimum grade point average of 2.500. Students also must meet College of Letters and Science residency requirements, which means that at least nine of their Certificate upper-level (numbered 300 and above) credits must be earned at UWM.

Code	Title	Credits
ENGLISH 206	Technical Writing	3
ENGLISH 428	Strategic Writing for Organizations	3
ENGLISH 429	Technical Communications and Professional Leadership	3
ENGLISH 435	Rhetoric and Professional Writing	3
ENGLISH 437	Project Management for Professional Writers	3
ENGLISH 439	Information Design	3
<b>Total Credits</b>		<b>18</b>

## Celtic Studies

Celtic Studies examines the history, culture, and languages of the Celtic region.

The Center for Celtic Studies provides interdisciplinary, international educational opportunities for UWM students. Our program includes on-campus instruction by UWM and visiting international faculty, as well as



study-abroad options in Ireland, Great Britain, and Europe. We provide a wide range of course and research topics relating to cultures—both historical and modern—that share Celtic influence: the early Continental Celts and the Breton, Cornish, Galician, Irish, Manx, Scots, and Welsh peoples.

Students can concentrate their studies on the Celtic languages, both spoken and written, or they may choose to investigate the broader themes of the Celtic world, such as art, archaeology, literature, history, folklore, music and myth.

## Programs

- Celtic Studies, Undergraduate Certificate (p. 921)

## Celtic Studies, Undergraduate Certificate

Celtic Studies examines the history, culture, and languages of the Celtic region.

The Undergraduate Certificate in Celtic Studies is open to all students interested in learning about the history, folklore, art, language, and culture of Ireland, Scotland, and Wales. The features of the region are explored from both a historical perspective and through a modern day lens. The certificate complements a number of different majors such as history, political science, English, anthropology, and art history, and can make graduates more marketable for international careers and graduate programs.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

## Eligibility

The Undergraduate Certificate Program in Celtic Studies is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. All students will receive the certificate upon successful completion of the program requirements.

## Requirements

To obtain the certificate, students must complete 18 credits in required courses with a minimum GPA of 2.750, including CELTIC 133 and at least 9 credits in upper-division (numbered 300 and above) courses selected from Celtic courses and/or the list of approved electives. At least half the credits for the certificate must be taken in residence at UWM. All students are urged to participate in a study abroad program. Credits earned via study abroad through a UWM-sponsored program count as residence credits. No more than 9 credits from a single curricular area may count toward the certificate requirements, and students must select courses from at least three different curricular areas in completing their requirements.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the certificate program committee.

Students elect one of the following options:

### Option A: Language Emphasis

Code	Title	Credits
<b>Required</b>		
CELTIC 133	Celtic Crossings: Overview of the History and Cultures of the Celtic World	3
CELTIC 203	Third Semester Irish Gaelic	3
CELTIC 204	Fourth Semester Irish Gaelic	3
<b>Electives</b>		
Select at least 9 additional credits numbered 300 or above from Celtic courses and/or the approved Celtic studies electives list		9
<b>Total Credits</b>		<b>18</b>

### Option B: Cultural Emphasis

Code	Title	Credits
<b>Required</b>		
CELTIC 133	Celtic Crossings: Overview of the History and Cultures of the Celtic World	3
CELTIC 103	First Semester Irish Gaelic	3
<b>Electives</b>		
Select at least 12 additional credits from Celtic courses and/or the approved Celtic studies electives list		12
<b>Recommended</b>		
Students in the cultural emphasis are encouraged, but not required, to take the following course:		
CELTIC 104	Second Semester Irish Gaelic	
<b>Total Credits</b>		<b>18</b>

### Approved Celtic Studies Electives

Students may select from all Celtic courses or any of the following courses offered in other areas.

Code	Title	Credits
ANTHRO 305	The Celtic World	3
ANTHRO 306	European Archaeology	3
ANTHRO 381	Honors Seminar: (The Celtic World)	3
DANCE 370	World Movement Traditions:	2-3
Subtitles:		
Irish Dance History and Practice		
Irish Step Dance		
ENGLISH 192	First-Year Seminar: (Celtic Folk and Fairy Tales)	3
ENGLISH 243	Introduction to Literature by Women:	3
Subtitles:		
Irish Women Writers		
Contemporary Celtic Women Writers		
ENGLISH 245	The Life, Times, and Work of a Literary Artist: (Flannery O'Connor)	3
ENGLISH 247	Literature and Human Experience: (Literature from Northern Ireland)	3
ENGLISH 263	Introduction to the Novel:	3
Subtitles:		
The Irish Tradition		
The Irish Novel		

ENGLISH 277	Introduction to Ethnic Minority Literature: (Irish American Literature)	3
ENGLISH 285	Modern Irish Language and Literature in Translation	3
ENGLISH 306	Survey of Irish Literature	3
ENGLISH 325	The Art of Fiction: (The Irish Short Story)	3
ENGLISH 344	Modern Drama: (Contemporary British and Irish Plays)	3
ENGLISH 518	Studies in Irish Literature:	3
ENGLISH 622	Seminar in Irish Literature:	3
FILMSTD/COMPLIT/ ENGLISH 316	World Cinema: (Scottish Film)	3
HIST 200	Historical Roots of Contemporary Issues:	3
Subtitles:		
Ireland: A Celtic Nation		
The Celtic Cultural Experience		
Ireland's English Problem		
HIST 235	English History to 1688	3
HIST 236	Britain Since 1688: Rise and Decline of a Great Power	3
HIST 370	Topics in the History of Religious Thought: (Christianity in Early England and Ireland)	3
HIST 371	Topics in European History: (Christianity in Early England and Ireland)	3
PORTUGS 499	Ad Hoc: (Galician Culture: An Overview)	1-6

THEATRE 490	Topics in Theatre:	1-4
Subtitles:		
Irish Theatre: A Sense of Place		
20th Century Irish Theatre and Consequence of Place		

## Chemistry and Biochemistry

While our faculty are internationally recognized in all of the major divisions of chemistry, our department is particularly strong in Medicinal Chemistry, Biochemistry, and Surface Science. We are a midsized department where students receive advanced training and carry out cutting-edge research that crosses the bounds of traditional chemistry into the fields of physics, materials, life science and science education.

## Programs

- Biochemistry, BA (p. 923)
- Biochemistry, BS (p. 928)
- Chemistry, BA (p. 933)
- Chemistry, BS (p. 938)
- Chemistry, Minor (p. 943)
- Chemistry, MS (p. 944)
- Chemistry, PhD (p. 945)
- Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 946)
- Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 947)
- Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry) (p. 948)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Carolyn Aita	Distinguished Professor	PhD			✓
Joseph H. Aldstadt	Associate Professor	PhD	Ohio University	✓	
Alexander Arnold	Associate Professor	PhD	University of Groningen, Netherlands	✓	
Dennis W. Bennett	Professor	PhD	University of Utah		
Anja Blecking	Assistant Professor	PhD	University of Duisburg, Germany	✓	
Jian Chen	Associate Professor	PhD	Fudan University, PR China	✓	
James M. Cook	Distinguished Professor	PhD	University of Michigan	✓	
Mark Dietz	Professor	PhD	University of Arizona	✓	
Benjamin Feinberg	Professor	PhD			✓
David Frick	Professor	PhD	The Johns Hopkins University	✓	
Peter Geissinger	Professor, Chair	PhD	University of Bayreuth, Germany		
E. Alexander Hill	Professor	PhD			✓
M. Mahmud Hossain	Professor	PhD	University of South Carolina	✓	
Calvin O. Huber	Professor	PhD			✓
Guilherme Indig	Associate Professor	PhD	University of Sao Paulo, Brazil	✓	
Peter J. Kovacic	Professor	PhD			✓
Shama Mirza	Assistant Professor	PhD	Indian Institute of Chemical Technology	✓	
Graham Moran	Professor, Chair	PhD	University of New England, Australia	✓	
Kristen L. Murphy	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	
Andrew Pacheco	Professor	PhD	University of British Columbia	✓	
Arsenio Pacheco-Olivella	Professor	PhD	University of British Columbia		

Xiaohua Peng	Associate Professor	PhD	University of Osnabrueck, Germany	✓	
David H. Petering	Distinguished Professor	PhD	University of Michigan	✓	
Mary E. Schaff	Professor	MS			✓
Alan Schwabacher	Associate Professor	PhD	Columbia University	✓	
Frank Shaw	Professor	PhD			✓
B. Richard Siebring	Professor	PhD			✓
Nicholas R. Silvaggi	Associate Professor	PhD	University of Connecticut-Storrs	✓	
George Sosnovsky	Professor	PhD			✓
Kristene K. Surerus	Associate Professor	PhD	University of Minnesota	✓	
Wilfred T. Tysoe	Distinguished Professor	PhD	University of Cambridge, England	✓	
Ralf W. Vanselow	Professor	PhD			✓
Kenneth L. Watters	Professor	PhD			✓
Jörg Woehl	Associate Professor	PhD	University of California – Riverside	✓	

## Biochemistry, BA

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area's industrial and scientific community.

### Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from four different curricular options in chemistry and biochemistry:

1. Chemistry Major
2. Chemistry Major with a Biochemical Option
3. Biochemistry Major
4. Biochemistry Major with a Clinical Pharmacology Option (BS only)

Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in

undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Biochemistry is a specialty within chemistry that focuses on the basic substances and elements that make up living creatures, including plants, animals and humans.

Biochemistry is a popular major for students preparing to go on to medical school, veterinary school, dental school or other similar healthcare professional programs that require a foundation in both biology and chemistry. However, students also pursue many other types of paths including lab research in areas related to water, healthcare, and manufacturing; forensics work for municipalities or agencies; agriculture; genetics; scientific writing and promotion; sales and marketing in science fields; food safety and production; legal consulting on scientific matters; pharmaceutical production; and more.

Graduate studies in Biochemistry can be found under the Chemistry and Biochemistry (<http://uwm.edu/letters-science/programs/?classification=GRAD>) department, with both a Master of Science and the terminal PhD available.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		

ENGLISH 102	College Writing and Research (or equivalent)
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*Part B*

Course designated as OWC-B; may be completed through a major-specific course requirement

**Quantitative Literacy***Part A*

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

*Part B*

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements****I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	

POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is *NOT* the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
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### Natural Sciences

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
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### Cultural Diversity

Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3
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\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

### Prerequisite Preparation for Majors in Chemistry and Biochemistry

General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are

met. Because the study of chemistry is cumulative, postponing one's start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

## Declaration of Major Requirements

To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

## Biochemistry Major Requirements

The biochemistry major differs from the standard chemistry major with a biochemical option in a number of ways intended to provide for students a more intensive education in biochemistry so that they are prepared for work in the biochemical industry upon completing their baccalaureate degree. Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

### Requirements

Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Code	Title	Credits
<b>Required</b>		
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	10
CHEM 221	Elementary Quantitative Analysis	4
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 560	Biophysical Chemistry	3
CHEM 501	Introduction to Biochemistry	3
Select two of the following:		6
CHEM 601	Biochemistry: Protein Structure and Function	
CHEM 602	Biochemistry: Cellular Processes	
CHEM 604	Biochemistry: Metabolism	
CHEM 603	Introduction to Biochemistry Laboratory	2
CHEM 691 or CHEM 692	Senior Research (satisfies L&S research requirement) Senior Thesis	1-4
BIO SCI 150	Foundations of Biological Sciences I	4

BIO SCI 325	Genetics	4
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	5
PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)	5
MATH 205	Introductory Finite Mathematics	3
MATH 211	Survey in Calculus and Analytic Geometry I	4
MTHSTAT 215	Elementary Statistical Analysis	3
<b>Biological Science Electives</b>		
Select 7 credits (see below)		7
<b>Total Credits</b>		<b>72-75</b>

### Biological Science Electives

Code	Title	Credits
BIO SCI 315	Cell Biology	3
BIO SCI 316	Laboratory in Genetics and Cell Biology	2
BIO SCI 356	Developmental Biology	3
BIO SCI 383	General Microbiology	4
BIO SCI 401	Immunology	3
BIO SCI 405	General Virology	3
BIO SCI 490	Molecular Genetics	3
BIO SCI 529	Molecular Biology of Microorganisms	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
BIO SCI 540	Microbial Diversity and Physiology	3
BIO SCI 564	Endocrinology	3
BIO SCI 572	Functional Genomics	3
BIO SCI 580	Experimental Microbiology	4

## Suggested Timetable for the Biochemistry Major

Year 1		Credits
<b>Semester 1</b>		
CHEM 102	General Chemistry	5
MATH 211	Survey in Calculus and Analytic Geometry I	4
BIO SCI 150	Foundations of Biological Sciences I	4
<b>Credits</b>		<b>13</b>
<b>Semester 2</b>		
CHEM 104	General Chemistry and Qualitative Analysis	5
MATH 205	Introductory Finite Mathematics	3
<b>Credits</b>		<b>8</b>
Year 2		Credits
<b>Semester 1</b>		
CHEM 221	Elementary Quantitative Analysis	4
CHEM 343	Organic Chemistry	3
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	5
MTHSTAT 215	Elementary Statistical Analysis	3
<b>Credits</b>		<b>15</b>
<b>Semester 2</b>		
CHEM 344	Organic Chemistry Laboratory	2

CHEM 345	Organic Chemistry	3
PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)	5
BIO SCI 325	Genetics	4
CHEM 399	Special Chemical Problems:	2
<b>Credits</b>		<b>16</b>
<b>Year 3</b>		
<b>Semester 1</b>		
CHEM 560	Biophysical Chemistry	3
CHEM 501	Introduction to Biochemistry	3
<b>Credits</b>		<b>6</b>
<b>Semester 2</b>		
BIO SCI Elective		4
CHEM 602 or CHEM 604	Biochemistry: Cellular Processes or Biochemistry: Metabolism	3
CHEM 603	Introduction to Biochemistry Laboratory	2
<b>Credits</b>		<b>9</b>
<b>Year 4</b>		
<b>Semester 1</b>		
CHEM 601	Biochemistry: Protein Structure and Function	3
CHEM 691 or CHEM 692	Senior Research or Senior Thesis	2
<b>Credits</b>		<b>5</b>
<b>Total Credits</b>		<b>72</b>

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Biochemistry, BS

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area's industrial and scientific community.

### Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from four different curricular options in chemistry and biochemistry:

1. Chemistry Major
2. Chemistry Major with a Biochemical Option
3. Biochemistry Major
4. Biochemistry Major with a Clinical Pharmacology Option (BS only)

Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Biochemistry is a specialty within chemistry that focuses on the basic substances and elements that make up living creatures, including plants, animals and humans.

Biochemistry is a popular major for students preparing to go on to medical school, veterinary school, dental school or other similar healthcare professional programs that require a foundation in both biology and chemistry. However, students also pursue many other types of paths including lab research in areas related to water, healthcare, and manufacturing; forensics work for municipalities or agencies; agriculture; genetics; scientific writing and promotion; sales and marketing in science fields; food safety and production; legal consulting on scientific matters; pharmaceutical production; and more.

Graduate studies in Biochemistry can be found under the Chemistry and Biochemistry (<http://uwm.edu/letters-science/programs/>)

classification=GRAD) department, with both a Master of Science and the terminal PhD available.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		



Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		

AFRIC 220	Introduction to Statistics in African and African Diaspora Studies
ANTHRO 568	Introduction to Anthropological Statistics
BIO SCI 465	Biostatistics
ECON 210	Economic Statistics
GEOG 247	Quantitative Analysis in Geography
HIST 595	The Quantitative Analysis of Historical Data
MTHSTAT 215	Elementary Statistical Analysis
PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

**IV. International Requirement**

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

**V. Breadth Requirement**

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3

**Humanities**

Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. \*

12

**Social Sciences**

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. \*

12

**Natural Sciences**

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. \*

12

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\*

3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

**Prerequisite Preparation for Majors in Chemistry and Biochemistry**

General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in

turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one's start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

**Declaration of Major Requirements**

To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

**Biochemistry Major Requirements**

The biochemistry major differs from the standard chemistry major with a biochemical option in a number of ways intended to provide for students a more intensive education in biochemistry so that they are prepared for work in the biochemical industry upon completing their baccalaureate degree. Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

There are two options in the biochemistry major:

- Biochemistry General Option
- Biochemistry with Clinical Pharmacology Option

**Requirements**

Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

**Biochemistry General Option**

Code	Title	Credits
<b>Required</b>		
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	10
CHEM 221	Elementary Quantitative Analysis	4
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 560	Biophysical Chemistry	3
CHEM 501	Introduction to Biochemistry	3
Select two of the following:		6

CHEM 601	Biochemistry: Protein Structure and Function	
CHEM 602	Biochemistry: Cellular Processes	
CHEM 604	Biochemistry: Metabolism	
CHEM 603	Introduction to Biochemistry Laboratory	2
CHEM 691 or CHEM 692	Senior Research (satisfies L&S research requirement) Senior Thesis	1-4
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 325	Genetics	4
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	5
PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)	5
MATH 213	Calculus with Life Sciences Applications	4
MTHSTAT 215	Elementary Statistical Analysis	3

<b>Biological Science Electives</b>		
Select 7 credits (see below)		7
<b>Total Credits</b>		<b>69-72</b>

<b>Biological Science Electives</b>		
Code	Title	Credits
BIO SCI 315	Cell Biology	3
BIO SCI 316	Laboratory in Genetics and Cell Biology	2
BIO SCI 356	Developmental Biology	3
BIO SCI 383	General Microbiology	4
BIO SCI 401	Immunology	3
BIO SCI 405	General Virology	3
BIO SCI 455	Cellular, Molecular and Developmental Neurobiology	3
BIO SCI 490	Molecular Genetics	3
BIO SCI 529	Molecular Biology of Microorganisms	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
BIO SCI 540	Microbial Diversity and Physiology	3
BIO SCI 564	Endocrinology	3
BIO SCI 572	Functional Genomics	3
BIO SCI 580	Experimental Microbiology	4

<b>Clinical Pharmacology Option</b>		
Code	Title	Credits
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	10
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 560	Biophysical Chemistry	3
CHEM 501	Introduction to Biochemistry	3

Select two of the following:			6
CHEM 601	Biochemistry: Protein Structure and Function		
CHEM 602	Biochemistry: Cellular Processes		
CHEM 604	Biochemistry: Metabolism		
CHEM 603	Introduction to Biochemistry Laboratory	2	
CHEM 691 or CHEM 692	Senior Research (satisfies L&S research requirement) Senior Thesis	1-4	
BIO SCI 150	Foundations of Biological Sciences I	4	
BIO SCI 152	Foundations of Biological Sciences II	4	
BIO SCI 202	Anatomy and Physiology I	4	
BIO SCI 325	Genetics	4	
BIO SCI 383	General Microbiology	4	
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	5	
MATH 213	Calculus with Life Sciences Applications	4	
MTHSTAT 215	Elementary Statistical Analysis	3	
BMS 427	Clinical Immunology	3	
BMS 428	Clinical Immunology Laboratory	1	
BMS 431	Clinical Chemistry	3	
BMS 432	Clinical Chemistry Laboratory Theory & Operations	1	
BMS 560	Molecular and Genetic Diagnostics	2	
BMS 561	Molecular Diagnostics Laboratory	1	
BMS 610	Pharmacology	3	
<b>Total Credits</b>			<b>79-82</b>

## Suggested Timetable for the Biochemistry Major

<b>Year 1</b>			
<b>Semester 1</b>			<b>Credits</b>
CHEM 102	General Chemistry		5
MATH 115	Precalculus		4
BIO SCI 150	Foundations of Biological Sciences I		4
<b>Credits</b>			<b>13</b>
<b>Semester 2</b>			
CHEM 104	General Chemistry and Qualitative Analysis		5
MATH 213	Calculus with Life Sciences Applications		4
<b>Credits</b>			<b>9</b>

<b>Year 2</b>			
<b>Semester 1</b>			
CHEM 221	Elementary Quantitative Analysis		4
CHEM 343	Organic Chemistry		3
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)		5
MTHSTAT 215	Elementary Statistical Analysis		3
<b>Credits</b>			<b>15</b>
<b>Semester 2</b>			
CHEM 344	Organic Chemistry Laboratory		2
CHEM 345	Organic Chemistry		3

PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)	5
BIO SCI 325	Genetics	4
CHEM 399	Special Chemical Problems:	2
<b>Credits</b>		<b>16</b>
<b>Year 3</b>		
<b>Semester 1</b>		
CHEM 560	Biophysical Chemistry	3
CHEM 501	Introduction to Biochemistry	3
<b>Credits</b>		<b>6</b>
<b>Semester 2</b>		
BIO SCI Elective		4
CHEM 602 or CHEM 604	Biochemistry: Cellular Processes or Biochemistry: Metabolism	3
CHEM 603	Introduction to Biochemistry Laboratory	2
<b>Credits</b>		<b>9</b>
<b>Year 4</b>		
<b>Semester 1</b>		
CHEM 601	Biochemistry: Protein Structure and Function	3
CHEM 691 or CHEM 692	Senior Research or Senior Thesis	2
<b>Credits</b>		<b>5</b>
<b>Total Credits</b>		<b>73</b>

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
- 3.750 GPA in all UWM chemistry credits;
- 3.500 GPA in all advanced credits in chemistry (numbered above 300); and
- Six credits of senior thesis with an average grade of B or better.

Students who believe they may qualify for honors in chemistry should apply to the department during their last semester of study.

A departmental "Undergraduate Awards Program and Research Symposium" is held each spring to highlight undergraduate research accomplishments and honor students who have distinguished themselves in various areas. Among the awards are the Durward Layde Memorial Fellowship, the Chemistry Emeritus Award for the Outstanding Junior, the McFarland Awards for the best undergraduate research poster presentations, as well as awards for Outstanding Performance in Introductory Chemistry, Analytical Chemistry, Biochemistry, Inorganic Chemistry, Organic Chemistry (Kovacic Award), and Physical Chemistry (Vanselow Award).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Chemistry, BA

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area's industrial and scientific community.

### Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from four different curricular options in chemistry and biochemistry:

1. Chemistry Major
2. Chemistry Major with a Biochemical Option
3. Biochemistry Major
4. Biochemistry Major with a Clinical Pharmacology Option (BS only)

Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.

Chemistry is known as the "central science" because of its relationship to all other sciences. Because it is the foundation of other sciences, UWM Chemistry alumni are prepared to go on to countless number of professional roles. While your first impression may be that chemistry majors all end up working in a laboratory surrounded by beakers and test tubes, there is more to the major than that.

Our majors go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering

and production, teaching, sales, consulting, and government agency work.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements****I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
0-18		
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College

requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

#### Prerequisite Preparation for Majors in Chemistry and Biochemistry

General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one's start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

#### Declaration of Major Requirements

To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

#### Chemistry Major Requirements

Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

#### Standard Chemistry Major Option

The standard chemistry major option may be followed in either the Bachelor of Science or Bachelor of Arts degree. It provides a suitable

background for students preparing for employment in chemistry and related scientific fields or for subsequent graduate study.

Code	Title	Credits
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	10
CHEM 221	Elementary Quantitative Analysis	4
CHEM 311	Introduction to Inorganic Chemistry	3
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 524	Instrumental Analysis	3
CHEM 561	Physical Chemistry I	3
CHEM 562	Physical Chemistry II	3
CHEM 563	Physical Chemistry Laboratory	1-2
CHEM 582	Advanced Chemistry Laboratory I	2
or CHEM 584	Advanced Chemistry Laboratory II	
CHEM 501	Introduction to Biochemistry	3
or CHEM 611	Physical Inorganic Chemistry	
CHEM 691	Senior Research (satisfies L&S research requirement)	1-4
or CHEM 692	Senior Thesis	
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
Recommended course:		
MATH 234	Linear Algebra and Differential Equations	
Select one of the following options: 10		
Option 1:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
Option 2:		
PHYSICS 219	Physics I: Calculus-Based, Studio Format	
PHYSICS 220	Physics II: Calculus-Based, Studio Format	

**Total Credits** 63-67

### Standard Chemistry Major with a Biochemical Option

The standard chemistry major with a biochemical option differs from the standard major option in that some of the chemistry courses required by the standard option are omitted, and courses in biochemistry and biological sciences are added. Some students planning further study in biochemistry, molecular biology, or medicine may prefer this option.

Code	Title	Credits
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	10
CHEM 221	Elementary Quantitative Analysis	4
CHEM 311	Introduction to Inorganic Chemistry	3
CHEM 343	Organic Chemistry	3

CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 524	Instrumental Analysis	3
CHEM 561	Physical Chemistry I	3
CHEM 562	Physical Chemistry II	3
CHEM 563	Physical Chemistry Laboratory	1-2
CHEM 501	Introduction to Biochemistry	3
Select two of the following: 6		
CHEM 601	Biochemistry: Protein Structure and Function	
CHEM 602	Biochemistry: Cellular Processes	
CHEM 604	Biochemistry: Metabolism	
CHEM 603	Introduction to Biochemistry Laboratory	2
CHEM 691	Senior Research (satisfies L&S research requirement)	1-4
or CHEM 692	Senior Thesis	
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 325	Genetics	4
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
Recommended course:		
MATH 234	Linear Algebra and Differential Equations	
Select one of the following options: 10		
Option 1:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
Option 2:		
PHYSICS 219	Physics I: Calculus-Based, Studio Format	
PHYSICS 220	Physics II: Calculus-Based, Studio Format	

**Total Credits** 77-81

## Suggested Timetables for Standard Chemistry Major, Courses in Chemistry Degree, and Standard Chemistry Major with a Biochemical Option

### Model Four-Year Program

Year 1		Credits
<b>Semester 1</b>		
CHEM 102	General Chemistry	5
MATH 115	Precalculus	4
<b>Credits</b> 9		
<b>Semester 2</b>		
CHEM 104	General Chemistry and Qualitative Analysis	5
MATH 231	Calculus and Analytic Geometry I	4
<b>Credits</b> 9		



<b>Year 2</b>		
<b>Semester 1</b>		
CHEM 343	Organic Chemistry	3
CHEM 221	Elementary Quantitative Analysis	4
MATH 232	Calculus and Analytic Geometry II	4
<b>Credits</b>		<b>11</b>
<b>Semester 2</b>		
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
MATH 233	Calculus and Analytic Geometry III	4
PHYSICS 209	Physics I (Calculus Treatment)	4
PHYSICS 214	Lab Physics I (Calculus Treatment)	1
<b>Credits</b>		<b>14</b>
<b>Year 3</b>		
<b>Semester 1</b>		
CHEM 311	Introduction to Inorganic Chemistry	3
CHEM 501	Introduction to Biochemistry (or take in spring) <sup>1</sup>	3
PHYSICS 210	Physics II (Calculus Treatment)	4
PHYSICS 215	Lab Physics II (Calculus Treatment)	1
<b>Credits</b>		<b>11</b>
<b>Semester 2</b>		
CHEM 561	Physical Chemistry I	3
<b>Credits</b>		<b>3</b>
<b>Year 4</b>		
<b>Semester 1</b>		
CHEM 562	Physical Chemistry II	3
CHEM 563	Physical Chemistry Laboratory	1
CHEM 524	Instrumental Analysis	3
CHEM 582	Advanced Chemistry Laboratory I (or take in spring) <sup>1,2</sup>	2
Select one of the following:		1-2
CHEM 691	Senior Research	
CHEM 692	Senior Thesis	
CHEM 697	Senior Seminar	
<b>Credits</b>		<b>10-11</b>
<b>Semester 2</b>		
CHEM 584	Advanced Chemistry Laboratory II (or take in fall) <sup>1,2</sup>	2
CHEM 524	Instrumental Analysis	3
CHEM 582	Advanced Chemistry Laboratory I <sup>1,2</sup>	2
CHEM 524	Instrumental Analysis	3
CHEM 611	Physical Inorganic Chemistry <sup>1</sup>	3
Select one of the following:		1-2
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CHEM 692	Senior Thesis	
CHEM 697	Senior Seminar	
<b>Credits</b>		<b>14-15</b>
<b>Total Credits</b>		<b>81-83</b>

<sup>1</sup> Courses that may be optional for standard chemistry major; required for the Course in Chemistry degree.

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Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

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- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
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## Honors in the Major

Students in any of the chemistry or biochemistry options who meet all of the following criteria are awarded honors in the major upon graduation:

- 3.500 cumulative GPA in all UWM graded credits;
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- Six credits of senior thesis with an average grade of B or better.

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Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

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Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Chemistry, BS

The Department of Chemistry and Biochemistry curriculum provides a thorough undergraduate education for students planning careers as research scientists, industrial chemists, and educators in universities or in secondary schools. In addition, department courses provide a foundation in the basic science of chemistry to students majoring in biological or physical sciences, students planning a career in medicine or other health-related fields, students in the College of Engineering and Applied Science, and students in the liberal arts. Especially in its graduate programs, the department stresses interdisciplinary approaches, as exemplified by the Laboratory for Surface Studies and the Great Lakes WATER Institute. It also cooperates with chemists of the Milwaukee area's industrial and scientific community.

### Course of Study: Major Options in Chemistry and Biochemistry

Students may choose from four different curricular options in chemistry and biochemistry:

1. Chemistry Major
2. Chemistry Major with a Biochemical Option
3. Biochemistry Major
4. Biochemistry Major with a Clinical Pharmacology Option (BS only)

Undergraduate research is encouraged strongly for students in any of the chemistry options. In some cases, students may start research with a faculty member as early as their freshman year. Information about research opportunities may be obtained from the department office or from SAACS (the American Chemical Society student affiliate group). Pre-medical students who choose to follow one of the chemistry or biochemistry options should see the L&S pre-professional programs

section in this catalog and should consult their pre-medical advisor and an advisor in chemistry regularly.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.

Chemistry is known as the "central science" because of its relationship to all other sciences. Because it is the foundation of other sciences, UWM Chemistry alumni are prepared to go on to countless number of professional roles. While your first impression may be that chemistry majors all end up working in a laboratory surrounded by beakers and test tubes, there is more to the major than that.

Our majors go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering and production, teaching, sales, consulting, and government agency work.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

#### Arts

Select 3 credits 3

#### Humanities

Select 6 credits 6

#### Social Sciences

Select 6 credits 6

#### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

#### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

#### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College

of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether

those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

#### Prerequisite Preparation for Majors in Chemistry and Biochemistry

General chemistry is a prerequisite to all further courses in chemistry. This requirement is satisfied by CHEM 102 and CHEM 104. Students without high school chemistry or whose background in science is weak may need to take CHEM 100 first.

Mathematics and physics also are required for a major in chemistry. Three semesters of calculus and two semesters of calculus-based physics (or equivalents) are prerequisites to physical chemistry, which, in turn, is required for the advanced chemistry courses that are part of the major.

Students considering a major in chemistry or biochemistry should enroll in general chemistry and mathematics in their first semester, if at all possible, and physics should be started as soon as its prerequisites are met. Because the study of chemistry is cumulative, postponing one's start in math and chemistry courses is likely to delay completion of the degree. It is recommended that chemistry majors follow the suggested sequence for the Course in Chemistry degree program as closely as possible for the first two years.

Students are urged to contact the Chemistry and Biochemistry Department for academic advice as soon as they believe they have an interest in a major in chemistry.

#### Declaration of Major Requirements

To declare a chemistry or biochemistry major, the following are required:

- completion of CHEM 102 and CHEM 104;
- completion or concurrent registration in CHEM 343; and
- a GPA of 2.500 or better in all Chem courses attempted.

Students who are interested in graduate work in biochemistry should follow the standard chemistry major with a biochemical option.

#### Chemistry Major Requirements

Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

## Standard Chemistry Major Option

The standard chemistry major option may be followed in either the Bachelor of Science or Bachelor of Arts degree. It provides a suitable background for students preparing for employment in chemistry and related scientific fields or for subsequent graduate study.

Code	Title	Credits
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	10
CHEM 221	Elementary Quantitative Analysis	4
CHEM 311	Introduction to Inorganic Chemistry	3
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 524	Instrumental Analysis	3
CHEM 561	Physical Chemistry I	3
CHEM 562	Physical Chemistry II	3
CHEM 563	Physical Chemistry Laboratory	1-2
CHEM 582 or CHEM 584	Advanced Chemistry Laboratory I Advanced Chemistry Laboratory II	2
CHEM 501 or CHEM 611	Introduction to Biochemistry Physical Inorganic Chemistry	3
CHEM 691 or CHEM 692	Senior Research (satisfies L&S research requirement) Senior Thesis	1-4
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
Recommended course:		
MATH 234	Linear Algebra and Differential Equations	
Select one of the following options:		10
Option 1:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
Option 2:		
PHYSICS 219	Physics I: Calculus-Based, Studio Format	
PHYSICS 220	Physics II: Calculus-Based, Studio Format	
<b>Total Credits</b>		<b>63-67</b>

## Standard Chemistry Major with a Biochemical Option

The standard chemistry major with a biochemical option differs from the standard major option in that some of the chemistry courses required by the standard option are omitted, and courses in biochemistry and biological sciences are added. Some students planning further study in biochemistry, molecular biology, or medicine may prefer this option.

Code	Title	Credits
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	10

CHEM 221	Elementary Quantitative Analysis	4
CHEM 311	Introduction to Inorganic Chemistry	3
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 524	Instrumental Analysis	3
CHEM 561	Physical Chemistry I	3
CHEM 562	Physical Chemistry II	3
CHEM 563	Physical Chemistry Laboratory	1-2
CHEM 501	Introduction to Biochemistry	3
Select two of the following:		
CHEM 601	Biochemistry: Protein Structure and Function	
CHEM 602	Biochemistry: Cellular Processes	
CHEM 604	Biochemistry: Metabolism	
CHEM 603	Introduction to Biochemistry Laboratory	2
CHEM 691 or CHEM 692	Senior Research (satisfies L&S research requirement) Senior Thesis	1-4
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 325	Genetics	4
MATH 231	Calculus and Analytic Geometry I	4
MATH 232	Calculus and Analytic Geometry II	4
MATH 233	Calculus and Analytic Geometry III	4
Recommended course:		
MATH 234	Linear Algebra and Differential Equations	
Select one of the following options:		10
Option 1:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
Option 2:		
PHYSICS 219	Physics I: Calculus-Based, Studio Format	
PHYSICS 220	Physics II: Calculus-Based, Studio Format	
<b>Total Credits</b>		<b>77-81</b>

## Suggested Timetables for Standard Chemistry Major, Courses in Chemistry Degree, and Standard Chemistry Major with a Biochemical Option Model Four-Year Program

Year 1		
Semester 1		Credits
CHEM 102	General Chemistry	5
MATH 115	Precalculus	4
		<b>Credits</b>
		<b>9</b>
Semester 2		Credits
CHEM 104	General Chemistry and Qualitative Analysis	5

MATH 231	Calculus and Analytic Geometry I	4
<b>Credits</b>		<b>9</b>
<b>Year 2</b>		
<b>Semester 1</b>		
CHEM 343	Organic Chemistry	3
CHEM 221	Elementary Quantitative Analysis	4
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<b>Credits</b>		<b>11</b>
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Select one of the following:		1-2
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Select one of the following:		1-2
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## Chemistry, Minor

Chemistry is the study of the elementary parts and substances that make up our world, both the parts that occur in nature as well as man-made objects.

Chemistry is known as the "central science" because of its relationship to all other sciences. Thus, a minor in chemistry nicely complements any other science major.

Our alumni go into medical research, healthcare professions, manufacturing (particularly research and development), scientific writing and marketing, law (particularly areas of law that deal with science such as intellectual property), forensics and toxicology, aspects of engineering and production, teaching, sales, consulting, and government agency work.

The opportunity to participate in research as an undergraduate is a distinct advantage for UWM undergraduates. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

## Requirements

The minor in Chemistry consists of a minimum of 20 credits in chemistry, with at least 9 of these at or above the 300 level in residence at UWM.

Students must maintain an average GPA of 2.0 in all minor courses attempted at UWM. In addition, students must attain a 2.0 GPA on all minor courses attempted, including any transfer work. CHEM 106 does not count toward the minor and is not included in the minor GPA.

Code	Title	Credits
General Chemistry Requirement <sup>1</sup>		
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
Select one course from three of the following areas: <sup>2</sup>		5-10
<i>Analytical:</i>		
CHEM 221	Elementary Quantitative Analysis	
CHEM 524	Instrumental Analysis	
<i>Biochemistry:</i>		
CHEM 501	Introduction to Biochemistry	
CHEM 601	Biochemistry: Protein Structure and Function	
CHEM 602	Biochemistry: Cellular Processes	
CHEM 603	Introduction to Biochemistry Laboratory	
CHEM 604	Biochemistry: Metabolism	
<i>Inorganic:</i>		
CHEM 311	Introduction to Inorganic Chemistry	
CHEM 611	Physical Inorganic Chemistry	
CHEM 614	Bio-Inorganic Chemistry	
<i>Organic:</i>		
CHEM 341	Introductory Survey of Organic Chemistry	
CHEM 342	Introductory Organic Chemistry Laboratory	
CHEM 343	Organic Chemistry	
CHEM 344	Organic Chemistry Laboratory	
CHEM 345	Organic Chemistry	
<i>Physical:</i>		
CHEM 560	Biophysical Chemistry	
CHEM 561	Physical Chemistry I	
CHEM 562	Physical Chemistry II	
CHEM 563	Physical Chemistry Laboratory	
<b>Total Credits</b>		<b>15-20</b>

<sup>1</sup> Students without high school chemistry or whose background in science is weak may need to take CHEM 100 prior to enrolling in CHEM 102.

<sup>2</sup> At least one course with a laboratory, beyond general chemistry, must be taken.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor"

button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Chemistry, MS

The Department of Chemistry and Biochemistry offers a graduate program of studies with a choice of areas of specialization in analytical, organic, inorganic and physical chemistry or in biochemistry. The student is expected to develop breadth of study beyond the boundaries of traditional areas and disciplines. The student is afforded the opportunity of interdisciplinary study in the Surface Studies Laboratory and in the Center for Great Lakes Studies.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program.

1. Undergraduate preparation in chemistry and related areas equivalent to a chemistry major that includes at least two courses each of physical and organic chemistry with associated laboratories, and one course each in analytical and inorganic chemistry.
2. Reason Statement.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. See Special Non-Thesis Option below for additional requirements for admission to that option.

### Standard Thesis Option Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The entering student is assigned a temporary advisor; a permanent advisor

must be selected by the end of the first semester of study. The major professor serves as the student's research mentor.

\* This requirement may be modified for part-time students who may be employed during normal hours of the seminar and colloquium.

Graduate School regulations require that a majority of all courses taken be at the 700-999 level.

Prior to initial registration, the student takes advisory examinations to assess that individual's preparation in analytical, organic, inorganic, physical, and biochemistry.

In consultation with the major professor, the student plans a program based on the results of these examinations. The student also must participate in at least one term of part-time teaching as a teaching assistant.

### Thesis

The student writes a thesis, essentially a formal report of that student's research. Since the MS is largely a research degree, the quality of research reported in the thesis is an important measure of the student's success in the program.

### Comprehensive Examination

The student must pass a final oral examination in defense of the thesis. At the discretion of the examining committee, this examination may include topics in addition to the thesis.

### Special Non-Thesis Option For Students With Professional Experience In Chemistry

#### Additional Admission Requirements

In addition to the general requirements noted above for the master's degree program, applicants must have a minimum of five years of professional chemistry experience beyond the BA or BS degree, including a sizable amount of research or development laboratory work. Since the Department of Chemistry and Biochemistry believes that the problem-solving experience of research is an indispensable part of graduate study, applicants will be interviewed by a faculty committee to assess the prior research experience as appropriate background for the program.

#### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. For this option, the major professor is chosen (by the Graduate Subcommittee) before admission to the program, and serves as a member of the committee which assesses the prior research experience of the student. The major professor should be from the area of chemistry in which the student intends to concentrate the major portion of course efforts.

## Credits and Courses

Minimum degree requirement is 30 graduate credits. Normally these include at least five 600-899 level courses, chosen by the student in consultation with the advisor. A minimum grade point average of 3.00 must be earned in formal coursework, not including research courses (CHEM 990-CHEM 996) or seminars (CHEM 912, CHEM 931-CHEM 935). Students must complete a minimum of 6 credits in research. The remaining credits are taken in research and seminars.

Code	Title	Credits
<b>Minimum Requirements</b>		
At least five 600- to 899-level courses		22



CHEM 912 Graduate Seminar (audit each semester and graded once)	8
<b>Total Credits</b>	<b>30</b>

## Additional Requirements

### Papers and Comprehensive Examinations

The student prepares two survey papers exploring subjects in more depth than the coverage in coursework. Of these, one is in a major area and one is in a minor area. These must be approved by the student's examining committee, which consists of three faculty members representing the areas of the papers. One paper must be approved at least six months before the comprehensive examination. An oral comprehensive examination covers both the areas of the papers and other areas at the discretion of the committee.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Chemistry, PhD

The Department of Chemistry and Biochemistry offers a graduate program of studies with a choice of areas of specialization in analytical, organic, inorganic and physical chemistry or in biochemistry. The student is expected to develop breadth of study beyond the boundaries of traditional areas and disciplines. The student is afforded the opportunity of interdisciplinary study in the Surface Studies Laboratory and in the Center for Great Lakes Studies.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

The Ph.D. in Chemistry is divided into two tracks for the purpose of admission. This bifurcation is an acknowledgement of the highly interdisciplinary nature of modern research and that success in biochemical research often benefits from different background knowledge than would be necessary for other areas of chemistry. An applicant for the Chemistry Ph.D. program must meet all Graduate School requirements *plus* the requirements of the Chemistry or Biochemistry track to be considered for admission:

#### Chemistry Track

The Chemistry Track is designed for undergraduate chemistry majors pursuing research in Analytical Chemistry, Chemistry Education, Inorganic Chemistry, Organic Chemistry, or Physical Chemistry.

- Undergraduate preparation in chemistry that includes at least two courses each of physical and organic chemistry with associated laboratories, and one course each in analytical and inorganic chemistry.
- Reason Statement.

#### Biochemistry Track

The Biochemistry Track is designed for undergraduate biochemistry (or similar) majors pursuing research in Biochemistry, Chemical Biology, or related fields.

- Undergraduate preparation in biochemistry that includes at least two courses each of biochemistry and organic chemistry with associated laboratories, and one course in each of two of the following areas: analytical, inorganic, or physical chemistry.
- Reason Statement.

A master's degree is not a prerequisite for admission to the Ph.D. program in chemistry. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

### Reapplication

A student who receives the master's degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

## Credits and Courses

Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM. The student plans an individual program of study in consultation with the major professor.

Code	Title	Credits
<b>Minimum Requirements</b>		
At least six 600- to 899-level courses		18
Research courses		28
CHEM 912 Graduate Seminar (audit each semester and graded once)		8
<b>Total Credits</b>		<b>54</b>

Coursework must include one of the following:

- a minor of 9 to 12 credits in a single department;
- a minor of 9 to 12 credits in two or more departments;
- a coherent program of at least 9 credits concentrated in an area of chemistry outside the student's principal area of emphasis.

A Program of Study, including coursework and proposed research, must be approved by the Department. A minimum grade point average of 3.00 must be earned in coursework in Chemistry, not including research (CHEM 900-CHEM 996) or seminars (CHEM 912-CHEM 935). Graduate School regulations require that a majority of all courses taken be at the 700-999 level.

The Department has no formal language requirement but the student is responsible for familiarity with published literature in the area of that student's research.

The student must also participate in at least one semester of part-time teaching as a teaching assistant. The first stage of the student's program includes general preparation as in the master's program, as well as

specialized courses in principal areas of interest and the initiation of research.

Admission to the second stage of the PhD program is based upon satisfactory performance in courses, research, and in departmental examinations. Upon entrance, the student takes proficiency examinations in analytical, inorganic, organic, and physical chemistry. Departmental approval to continue in the doctoral program is attained by passing an advanced qualifying examination in the major area. This examination must be completed by the end of the fourth semester of study. In the second stage of the program, the student concentrates on the development and execution of original research. Additional coursework may also be required to complete the program of study.

## Additional Requirements

### Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The entering student is assigned a temporary advisor; a permanent advisor must be selected by the end of the first semester of study. The major professor serves as the student's research mentor.

### Residence

The student must meet minimum Graduate School residence requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/#residence>).

### Doctoral Preliminary Examination

The student must take a doctoral preliminary examination. This serves to qualify the student for formal admission by the Graduate School to candidacy for the degree.

### Dissertation

Candidates must each present a dissertation reporting the results of independent, original research carried out under the direction of their major professor. At least three months before the Dissertation Defense, at a time when most of the experimental work has been completed, the student meets with the Examining Committee for a preliminary review of the research to be described in the dissertation.

### Dissertation Defense

The candidate must, as the final step toward the degree, defend the dissertation in an oral examination. The candidate also presents a public dissertation seminar, describing research in completed form for the Department and others who may be interested. A student who does not pass this examination within five years of admission to candidacy may be required to take another preliminary examination and be readmitted to candidacy.

### Time Limit

All degree requirements must be completed within 10 years from the date of initial enrollment in the doctoral program. For additional information view the Graduate School PhD requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>).

## Death Investigation, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

### Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

### Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Death Investigation:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
ANTHRO 403	The Human Skeleton	3
ANTHRO 405	Forensic Anthropology	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3

BMS 610 or HCA 212	Pharmacology Drugs Used and Abused	3
<b>Total Credits</b>		<b>24</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Death Investigation:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/ CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/ CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 404	Human Biological Variation	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
CHEM 194	First-Year Seminar:	3
CHEM 524	Instrumental Analysis	3
CHEM 602	Biochemistry: Cellular Processes	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

## Forensic Science, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

### Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be

admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

## Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Science:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3
ANTHRO 403 or ANTHRO 404	The Human Skeleton Human Biological Variation	3
BMS 610 or HCA 212	Pharmacology Drugs Used and Abused	3
Select one of the following:		3-4
BIO SCI 539	Laboratory Techniques in Molecular Biology	
CHEM 602	Biochemistry: Cellular Processes	
BMS 560 & BMS 561	Molecular and Genetic Diagnostics and Molecular Diagnostics Laboratory	
<b>Total Credits</b>		<b>21-22</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Science:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/ CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/ CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/ CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 405	Forensic Anthropology	3
CHEM 194	First-Year Seminar:	3
CHEM 524	Instrumental Analysis	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1

## Forensic Toxicology, Undergraduate Certificate (College of Letters and Science, Department of Chemistry and Biochemistry)

The Biomedical Sciences Program, Criminal Justice Program, and Departments of Anthropology and Chemistry cooperate in offering three certificates in the area of forensic sciences. Sponsored jointly by the College of Letters and Science, the College of Health Professions and Sciences, and the Helen Bader School of Social Welfare, these certificate curricula are designed to train students in basic skills that will provide the foundation for careers in the fields of law enforcement, death investigation, pathology, and toxicology. Certificates are offered in Death Investigation, Forensic Science, and Forensic Toxicology. Where applicable, the curriculum meets the criteria required for professional certification examinations (Medicolegal Death Investigation, Toxicological Chemist).

### Eligibility

Undergraduate students who pursue a forensic sciences certificate maintain their identity as majors in their home departments and continue to progress toward a baccalaureate degree while in the certificate program. Courses include lecture presentations and laboratory experiences that cover fundamental areas of forensic science and provide unique instruction on techniques that are essential in the specific certificates. Students are given instruction by faculty members at UWM and forensic professionals in the Milwaukee community. Any of the programs may be pursued as a post-baccalaureate educational certificate. Individuals who are not enrolled in a degree program at UWM, but are seeking continuing education for career development, may be admitted to courses in the certificate programs by meeting prerequisites with equivalent experience or consent of the instructor.

### Requirements

To receive a certificate in Death Investigation, Forensic Science, or Forensic Toxicology, students must complete at least one half of the required credits on the UWM campus. A minimum grade point average of 2.500 must be achieved on the required credits. All options within the certificate require at least a basic knowledge of chemistry and biology. To meet this requirement, prior to registering themselves in the Forensic Sciences Certificate Program, students must successfully complete CHEM 100 or equivalent and BIO SCI 100 or equivalent.

The following courses must be completed successfully to obtain a Certificate in Forensic Toxicology:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 281	Dead Men Do Tell Tales: An Introduction to Forensic Science	3
ANTHRO/BMS/CHEM/ CRM JST 481	Criminalistics	3
CHEM 524	Instrumental Analysis	3
BMS 610	Pharmacology	3
CRM JST 110	Introduction to Criminal Justice	3
CRM JST 480	Criminal Evidence and Investigation	3
ANTHRO 403	The Human Skeleton	3

or ANTHRO 404	Human Biological Variation	
<b>Total Credits</b>		<b>21</b>

Additional courses with forensic content are listed below. Check prerequisites or consult the instructor for eligibility. These courses are recommended, but are not required, for the Certificate in Forensic Toxicology:

Code	Title	Credits
ANTHRO/BMS/CHEM/ CRM JST 285	Medicolegal Death Investigation	3
ANTHRO/BMS/CHEM/ CRM JST 585	Internship in Forensic Toxicology	1-3
ANTHRO/BMS/CHEM/ CRM JST 589	Internship in Death Investigation	1-3
ANTHRO/BMS/CHEM/ CRM JST 594	Internship in Forensic Science	1-3
ANTHRO 405	Forensic Anthropology	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
CHEM 194	First-Year Seminar: (with forensic subtitle)	3
CHEM 602	Biochemistry: Cellular Processes	3
BMS 555	Toxicology and Therapeutic Drug Monitoring	1
BMS 560	Molecular and Genetic Diagnostics	2
BMS 561	Molecular Diagnostics Laboratory	1

## Childhood and Adolescence Studies, Undergraduate Certificate

The Undergraduate Certificate in Childhood and Adolescence Studies (CAS) covers topics related to children and their social worlds. Through its classes, students examine how race, class, gender, sexuality, and disability impact development and cognition. CAS is an interdisciplinary program built around a core of liberal arts courses, with primary course offerings in sociology and psychology, and other complementary courses drawn in from health sciences, social work, education, and criminal justice.

Students complete the certificate with a better understanding of children and adolescence and how they are affected by society, culture, religion, politics, economics, health, and education policy. The certificate complements a number of different majors including education, psychology, sociology, social work and political science, and can make graduates more marketable for jobs that involve working with children.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

### Eligibility

The Childhood and Adolescence Studies Undergraduate Certificate is intended to enhance a bachelor's degree. The Program is open to all students seeking a bachelor's degree from UWM and to students who previously have received a bachelor's degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation.

Students who already have a bachelor's degree will receive the certificate upon completion of the program requirements.

## Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits in approved childhood and adolescence studies courses as indicated below. Courses for the certificate may not be taken on a credit/no credit basis.

Twelve of the 18 required credits must be earned in residence at UWM. Of these twelve residence credits, nine must be taken at the 300 level or above. Of the 18 required credits, 12 must be in the College of Letters and Science, with at least six of these at the 300 level or above. Three credits must be elected from outside the College of Letters and Science. No more than nine credits from any one department may count toward the Childhood and Adolescence Studies Certificate.

A maximum of six credits in Independent Study may count toward program requirements.

Code	Title	Credits
<b>Core</b>		
PSYCH 260	Child Psychology	3
ANTHRO 446	The Child in Different Cultures	3
<b>Electives <sup>1</sup></b>		
Select at least 6 credits from approved Letters and Science courses below		6
Select at least 3 credits from approved Non-L&S courses below		3
Select 3 additional credits from the list of approved courses below		3
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Students may petition the CAS Advisory Committee for approval of appropriate courses not on the approved list.

## Approved Courses

Independent study courses focusing on children and adolescents may be accepted with the approval of the CAS Advisory Committee. If a core course is not offered in the years an undergraduate student is pursuing the certificate, the student can petition the CAS Advisory Committee to accept another course in its stead. Other courses not on this list but relevant to the study of children and adolescents may be accepted with the approval of the CAS Advisory Committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the CAS Advisory Committee. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

Code	Title	Credits
<b>Letters and Science</b>		
AFRIC 314	The School in African-American Life	3
AFRIC 451	Rites of Passage in Black Societies	3
AFRIC 545	Raising Children, 'Race-ing' Children	3
COMPLIT 135	Experiencing Literature in the 21st Century: (Youth Culture in the Middle East Through Literature, Art, and Film)	3

ENGLISH/FILMSTD 312	Topics in Film, Television and Digital Studies: (Troubled Teens)	3
FILMSTD 212	Intermediate Topics in Film and Television Studies: (Teens on TV)	3
FRENCH 426	Growing Up French	3
HONORS 200	Honors Seminar: The Shaping of the Modern Mind: (Growing Up)	3
INTLST 550	Senior Seminar in International Studies: (Global Youth Language and Culture)	3
PSYCH 205	Personality	3
PSYCH 660	Experimental Child Psychology	4
SOCIOL 246	Juvenile Delinquency	3
SOCIOL 248	Sociology of Education	3
SOCIOL 448	Sociology of Children and Adolescents	3
<b>Non-L&amp;S Courses</b>		
COMSDIS 240	Normal Speech and Language Development	3
CRM JST 671	Juvenile Justice	3
CURRINS 233	Introduction to Children's and Young Adult Literature	3
CURRINS 650	Reading Interests of Adolescents	3
CURRINS 651	Literature for the Young Child	3
ED POL 534	Students Placed At Risk: Deconstructing Risk, Defining Promise	3
ED POL/EXCEDUC/SOC WRK 580	An Overview of Child/Youth Care	3
ED POL/SOC WRK 581	Youth Work Practice	3
ED PSY 330	Introduction to Learning and Development	3
ED PSY 640	Human Development: Theory and Research	3
EXCEDUC/ED POL/SOC WRK 580	An Overview of Child/Youth Care	3
EXCEDUC 600	Survey of Exceptional Education	3
HCA 203	Human Life Cycle	3
INFOST 645	Library Materials for Children	3
INFOST 646	Library Materials for Young Adults	3
INFOST 691	Special Topics in Information Science: (African American History in Children's Literature; GLBTQ Literature for Young Adults; or Multicultural Children's Literature)	1-3
NURS 203	Human Growth and Development Across the Life Span	4
NUTR 245	Life Cycle Nutrition	3
PH 206	Child and Adolescent Health	3
PH 306	Adolescent Health & Development	3
SOC WRK 250	Human Behavior and the Social Environment	3
SOC WRK 562	Child and Family Services	3
SOC WRK 580/ED POL 581	An Overview of Child/Youth Care	3
SOC WRK 581	Youth Work Practice	3

## Committee Interdisciplinary Major, BA/BS

The Committee Interdisciplinary Major is an option for self-directed and highly motivated students whose academic interests go beyond the existing major programs at UWM.

Students interested in this major must have in mind a topic that connects ideas from more than one major and that cannot be addressed within an existing major. They should discuss this topic with a faculty member who has related research and/or teaching interests to determine whether the topic is truly interdisciplinary.

If the faculty member agrees to advise the student on their topic, the student and the faculty member will work together to identify two more faculty members to serve on the student's interdisciplinary committee. The student will also work with their faculty advisor to develop the major proposal and declare this major.

**To access the Committee Interdisciplinary Major proposal form, the student should ask their L&S advisor or look on the Letters & Science academics page.**

Past CIM topics have included Community Development, Ethical Issues and the Law, Pharmaceutical Sales and Promotion, Re-emergence of Eastern Europe, and Science and Health Communication.

Students completing the Committee Interdisciplinary Major must also complete all UWM General Education Requirements. They must also decide whether they will complete a BA or BS degree and fulfill all the requirements of the BA or BS in the College of Letters & Science.

### Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

#### Arts

Select 3 credits 3

#### Humanities

Select 6 credits 6

#### Social Sciences

Select 6 credits 6

#### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

#### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

#### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing

course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		

Complete 3 credits in a course with Cultural Diversity (CD) designation.\*\* 3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)
-------------	--

#### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

#### Quantitative Literacy

##### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

##### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

#### Arts

Select 3 credits 3

#### Humanities

Select 6 credits 6

#### Social Sciences

Select 6 credits 6

#### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

#### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

#### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or



2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

## Committee Interdisciplinary Major Requirements

The Committee Interdisciplinary Major requires a minimum of 30 credits, of which at least 15 must be in upper-division (numbered 300 or above) Letters and Science courses taken in residence at UWM. The CIM must include coursework in at least two L&S academic units. All committee interdisciplinary majors must be approved by the major academic units involved. Most academic units outside the College may also be selected as part of the major. However, at least 18 credits in the major must be earned in Letters and Science courses. Non-L&S courses selected as part of a CIM will not count toward the 90 L&S credits required for the degree, but they will satisfy part of the 30 elective credits available to L&S students.

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

To propose a CIM, students should first identify a topic that cannot be studied in depth in any existing major, and a faculty member ("faculty advisor") to advise them on this interdisciplinary topic. The student should write a proposed description of the major with its goals. Then the student will work with the faculty advisor to:

- Identify a title for the major
- Finalize the description of the major
- Select the courses that will be required for the major, and
- Identify two additional faculty from two or more academic units willing to serve on the student's major committee

The student and faculty member will complete the online declaration of Committee Interdisciplinary Major form at any time between the 15th

and 75th credit. The form must be signed by the student and the three committee members before going to the L&S Associate Dean of the division most relevant to the topic for approval.

Should the proposal be denied, the student and the committee chair will receive a written explanation of the denial. The proposal may be reworked and resubmitted. Students may appeal a denial to the L&S Academic Policies and Curriculum Committee.

## Eligibility to serve on student's major committee

The committee must be composed of three individuals from two or more academic units who are willing to function as the major oversight committee. At least two committee members must be from L&S. A member of the L&S faculty serves as committee chair and major advisor ("faculty advisor"). One committee member may be instructional academic staff, but at least two must be tenure-track faculty members. All committees must be approved by the L&S Associate Dean in the division most relevant to the major topic.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Communication

The study of communication examines how language is used to generate meanings within and across various contexts, cultures, and media. The mission of the Department of Communication is to provide students with education in the theory, history, ethics and practice of communication and to prepare them for careers and leadership in a wide variety of professions.

## Programs

- Communication, BA (p. 955)
- Communication, MA (p. 958)
- Communication, MA: Rhetorical Leadership (p. 960)
- Communication, Minor (p. 961)
- Communication, PhD (p. 962)

- Communication, PhD: Rhetorical Leadership (p. 963)
- Media Studies, MA (p. 965)
- Mediation and Negotiation, Graduate Certificate (p. 966)
- Rhetorical Leadership, Graduate Certificate (p. 967)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Michael R. Allen	Professor	PhD	Michigan State University	✓	
Nancy Burrell	Professor	PhD	Michigan State University		✓
Xiaoxia Cao	Associate Professor	PhD	University of Pennsylvania	✓	
Kathryn A. Dindia	Professor	PhD			✓
Leslie Harris	Associate Professor	PhD	Northwestern University	✓	
John R. Johnson	Professor	PhD			✓
John Jordan	Associate Professor	PhD	University of Georgia	✓	
Tae-Seop Lim	Professor	PhD	Michigan State University	✓	
Edward A. Mabry	Associate Professor	PhD			✓
Anjana Mudambi	Assistant Professor	PhD	University of New Mexico	✓	
Kathryn M. Olson	Professor	PhD	Northwestern University		✓
Erin Sahlstein Parcell	Professor, Chair	PhD	University of Iowa	✓	
Sarah Riforgiate	Associate Professor	PhD	Arizona State University	✓	
Erin Ruppel	Associate Professor	PhD	University of Arizona	✓	
Sara Vanderhaagen	Associate Professor	PhD	Northwestern University	✓	
Lia Wolock	Assistant Professor	PhD	University of Michigan	✓	

## Communication, BA

Communication is a broad field, covering all of the different ways humans can exchange information - orally, through written word, and through nonverbal and visual cues. The study of communication involves the analysis of the communication patterns, settings, and tools that people use. Regardless of industry, in survey after survey, almost every employer ranks communication skills as one of their top three criteria when hiring.

Communication students at UWM not only graduate with top-notch communication skills, but they also have a thorough understanding of communication as a process and as a system. They are the individuals who can work with all types of people, bringing out their best. Communication majors go on to all types of work, but the common denominator is that their work most likely involves lots of interaction with others. Sales, marketing, media, public relations, human resources, mediation, law, journalism, merchandising, advertising, education, public office, and social welfare are just a few of the most popular post-college careers. At UWM, students can focus their Communication electives around four tracks: interpersonal communication; rhetoric and public communication; intercultural communication; or technology and communication. The Communication major can be completed entirely online if desired. Or, students can mix-and-match online and in-person classes in whatever combination they wish.

### Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete

University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	

MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements****I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a

grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	
	Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)	

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		
	Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
<b>Cultural Diversity</b>		
	Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

### Communication Major Requirements

A major in communication consists of at least 36 credits in communication courses. At least 18 of the 36 credits must be numbered 300 or above, 15 of these taken in residence at UWM.

Graduation with a major in Communication requires a cumulative GPA of at least 2.0 in all communication courses attempted at UWM as well as a 2.0 GPA in all major credits attempted, including any transfer work. All courses in the major, with the exception of COMMUN 298, must be taken for graded credit. The College of Letters and Science requires that students complete a research experience in their major. The Department of Communication has structured COMMUN 335, COMMUN 370, and COMMUN 372 to satisfy that requirement. In these courses, students must produce a written final research paper that involves conducting independent research in addition to evaluating research in the field and integrating it with their findings. Students will present their research in oral form to their course colleagues.

Code	Title	Credits
<b>Required</b>		
COMMUN 101	Introduction to Interpersonal Communication	3
COMMUN 103	Public Speaking	3
COMMUN 105	Business and Professional Communication	3
Select one of the following:		3
COMMUN 335	Critical Analysis of Communication	
COMMUN 370	Quantitative Research in Communication	
COMMUN 372	Qualitative Research in Communication	

#### Electives

Select 24 credits from across the communication curriculum	24
<b>Total Credits</b>	<b>36</b>

A maximum of 6 credits earned in any combination of the following courses may count toward the minimum number of credits required for the major in communication:

Code	Title	Credits
COMMUN 199	Independent Study	1-3
COMMUN 288	Research Practicum	1-3
COMMUN 296	UROB Apprenticeship	1-3
COMMUN 298	Internship in Communication	1-3
COMMUN 597	Practicum in Teaching Communication	1-3
COMMUN 588	Research Practicum	1-3
COMMUN 698	Internship in Communication	3
COMMUN 699	Advanced Independent Reading	1-3

### Cross-listed Courses

The following courses offered in other subjects may be used to fulfill the requirements of the undergraduate major in Communication.

Code	Title	Credits
JAMS 111	Gender and the Media	3
JAMS 113	Internet Culture	3

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and

- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Communication majors who want to graduate with honors in the major must attain a 3.000 GPA on all UWM graded credits attempted, a 3.750 GPA on all coursework taken to complete the major, and a 3.750 GPA on advanced (300 level and above) courses in the major. A minimum of 24 credits, at least 15 at the 300-level or above, in communication courses must be taken in residence at UWM.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

# Communication, MA

## Related Certificates

- Graduate Certificate in Mediation and Negotiation (p. 966)
- Graduate Certificate in Rhetorical Leadership (p. 967)
- Graduate Certificate in Teaching and Learning in Higher Education (p. 331)

The Department of Communication offers MA and PhD programs. The Master of Arts is designed to provide breadth and depth of study in the following areas: Organizational/Professional Communication, Intercultural/International Communication, Interpersonal Communication/Mediation, and Rhetoric/Public Communication. The

program provides initial and advanced preparation for a variety of careers including continued study leading to the PhD degree.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Possess the equivalent of an undergraduate major in speech, speech communication, or related areas.
2. Possess an undergraduate grade point average of 3.00 in the major.
3. Submit a reason statement describing your qualifications and reasons for applying to this program, as well as the fit between your interests and department offerings.
4. Submit your curriculum vitae outlining relevant qualifications, employment, and experiences.
5. Submit three letters of recommendation from persons capable of judging the applicant's capacity for success in a graduate program of study.
6. Submit a sample of written work from an academic and/or professional assignment.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants without the requisite grade point average may be considered for admission on a probationary basis.

## Credits and Courses

The minimum degree requirement is 30 credits, including 24 credits taken in the Department of Communication; that is, a maximum of 6 credits taken outside the department may count toward the total credits required. Students must take 24 of the 30 required credits in courses numbered 700 or above.

Students must complete either a professional project or a thesis.

Code	Title	Credits
<b>Required</b>		
<i>General</i>		
COMMUN 800	Proseminar: The Discipline of Communication	3
<i>Methods</i>		
Select one of the following:		3

COMMUN 700	Quantitative Research in Communication	
COMMUN 701	Critical Analysis of Communication	
COMMUN 702	Qualitative Research in Communication	
<b>Electives</b>		<b>24</b>
<b>Total Credits</b>		<b>30</b>

### Electives

Students complete 24 credits in elective courses, most of them selected from courses in the Department of Communication, with the following caveats. A maximum of 6 credits below the 700 level may be counted toward the degree. A maximum of 6 credits in courses outside the department may count toward the degree. No more than 9 credits selected from the combination of COMMUN 998, COMMUN 999, and courses outside the department may count toward the degree. In addition, the following restrictions on the number of credits that may count toward the degree are placed on these courses:

Code	Title	Credits
COMMUN 860	Seminar: Issues in Communication: (Subtitled) (6 credit maximum)	3
COMMUN 990	Research and Thesis	1-6
COMMUN 998	Communication Internship (3 credits maximum)	1-3
COMMUN 999	Independent Study (3 credits maximum)	1-3

### MA Portfolio Project

At the master's level, the MA Portfolio Project (MAPP) is designed to allow students to synthesize their accomplishments during the MA program and identify their strengths and needs as they pursue objectives beyond graduate school. In conjunction with the completion of 30-credit hours (per Department of Communication MA guidelines), students who successfully complete a MAPP will meet the requirements for the MA in Communication.

The MA Portfolio Project will provide students with an opportunity to:

- Compile documentation of academic accomplishments during the pursuit of an MA.
- Synthesize the primary contributions of MA coursework.
- Critically reflect upon accomplishments in written work.
- Reflect upon the accomplishment of their initial goals and objectives for the MA, and articulate future career goals and objectives that will utilize the skills/knowledge gained.
- Establish a connection with a field expert (e.g., an individual who works in the student's desired employment sector or a member of a community group with whom the student hopes to work) and gain additional information about activities the student may wish to pursue after graduation.
- Reflect upon one's understanding of future pursuits and draw connections between the MA experience and the nature of this type of work/service.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The major professor should be designated no later than the end of the student's

first year of enrollment. The incoming student is assigned the Graduate Coordinator or other program faculty member as an initial advisor until a major professor is selected.

### Thesis Option

A thesis involves applied or basic research and is a proven method for developing specialized knowledge and skills that can enhance an individual's expertise within a substantive area of study. A thesis is recommended for students who intend to continue study toward the PhD degree or plan research-related employment. If the thesis option is elected, the student must initiate and write an original research project under the guidance of his/her major professor; the student also must pass an oral defense of the finished project conducted by his/her thesis committee.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Communication, MA: Rhetorical Leadership

*Effective Spring 2022, the Rhetorical Leadership concentration has suspended admission.*

Interested students may complete a concentration in rhetorical leadership that will be designated on their transcripts.

## Admission Requirements

*Effective Spring 2022, the Rhetorical Leadership concentration has suspended admission.*

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Possess the equivalent of an undergraduate major in speech, speech communication, or related areas.
2. Possess an undergraduate grade point average of 3.00 in the major.
3. Submit a reason statement describing your qualifications and reasons for applying to this program, as well as the fit between your interests and department offerings.
4. Submit your curriculum vitae outlining relevant qualifications, employment, and experiences.
5. Submit three letters of recommendation from persons capable of judging the applicant's capacity for success in a graduate program of study.
6. Submit a sample of written work from an academic and/or professional assignment.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants without the requisite grade point average may be considered for admission on a probationary basis.

## Credits and Courses

The minimum degree requirement is 30 credits, including 24 credits taken in the Department of Communication; that is, a maximum of 6 credits taken outside the department may count toward the total credits required. Students must take 24 of the 30 required credits in courses numbered 700 or above.

Students must complete either a professional project or a thesis.

Code	Title	Credits
<b>Required</b>		
<i>General</i>		
COMMUN 800	Proseminar: The Discipline of Communication	3
<i>Methods</i>		
Select one of the following:		3
COMMUN 700	Quantitative Research in Communication	
COMMUN 701	Critical Analysis of Communication	
COMMUN 702	Qualitative Research in Communication	
<b>Electives</b>		<b>24</b>
<b>Total Credits</b>		<b>30</b>

### Electives

Students complete 24 credits in elective courses, most of them selected from courses in the Department of Communication, with the following caveats. A maximum of 6 credits below the 700 level may be counted toward the degree. A maximum of 6 credits in courses outside the department may count toward the degree. No more than 9 credits selected from the combination of COMMUN 998, COMMUN 999, and courses outside the department may count toward the degree. In addition, the following restrictions on the number of credits that may count toward the degree are placed on these courses:

Code	Title	Credits
COMMUN 860	Seminar: Issues in Communication: (Subtitled) (6 credit maximum)	3
COMMUN 990	Research and Thesis	1-6
COMMUN 998	Communication Internship (3 credits maximum)	1-3
COMMUN 999	Independent Study (3 credits maximum)	1-3

### MA Portfolio Project

At the master's level, the MA Portfolio Project (MAPP) is designed to allow students to synthesize their accomplishments during the MA



program and identify their strengths and needs as they pursue objectives beyond graduate school. In conjunction with the completion of 30-credit hours (per Department of Communication MA guidelines), students who successfully complete a MAPP will meet the requirements for the MA in Communication.

The MA Portfolio Project will provide students with an opportunity to:

- Compile documentation of academic accomplishments during the pursuit of an MA.
- Synthesize the primary contributions of MA coursework.
- Critically reflect upon accomplishments in written work.
- Reflect upon the accomplishment of their initial goals and objectives for the MA, and articulate future career goals and objectives that will utilize the skills/knowledge gained.
- Establish a connection with a field expert (e.g., an individual who works in the student’s desired employment sector or a member of a community group with whom the student hopes to work) and gain additional information about activities the student may wish to pursue after graduation.
- Reflect upon one’s understanding of future pursuits and draw connections between the MA experience and the nature of this type of work/service.

### Rhetorical Leadership Concentration

The concentration requires the following courses, which students may select to meet the MA degree’s course requirements:

Code	Title	Credits
<b>Required</b>		
COMMUN 772	Rhetorical Leadership and Ethics	3
COMMUN 762 or COMMUN 872	Argumentation in Theory and Practice Rhetorics of Constituting Community and Social Controversy	3
<b>Electives</b>		
Select three of the following:		9
COMMUN 665	Introduction to Mediation	
COMMUN 667	Great American Speakers and Issues	
COMMUN 672	Communication and Social Order	
COMMUN 701	Critical Analysis of Communication	
COMMUN 735	Rhetorical Theory	
COMMUN 762	Argumentation in Theory and Practice (if not selected above)	
COMMUN 835	Seminar in Contemporary Public Address	
COMMUN 860	Seminar: Issues in Communication: (Subtitle, with a rhetorical topic)	
COMMUN 862	Public Deliberation	
COMMUN 865		
COMMUN 872	Rhetorics of Constituting Community and Social Controversy (if not selected above)	
COMMUN 873	The Digital Mirror	
COMMUN 874	Rhetoric of Women’s Rights in the US	
COMMUN 893	Rhetoric of/and the Internet	
COMMUN 973	Topics in Rhetorical Research:	

COMMUN 998	Communication Internship (with rhetorical leadership topic directed by a member of the Rhetorical Leadership Committee)
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**Total Credits** **15**

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The major professor should be designated no later than the end of the student’s first year of enrollment. The incoming student is assigned the Graduate Coordinator or other program faculty member as an initial advisor until a major professor is selected.

### Thesis Option

A thesis involves applied or basic research and is a proven method for developing specialized knowledge and skills that can enhance an individual’s expertise within a substantive area of study. A thesis is recommended for students who intend to continue study toward the PhD degree or plan research-related employment. If the thesis option is elected, the student must initiate and write an original research project under the guidance of his/her major professor; the student also must pass an oral defense of the finished project conducted by his/her thesis committee.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Communication, Minor

Communication is a broad field, covering all of the different ways humans can exchange information - orally, through written word, and through nonverbal and visual cues. The study of communication involves the analysis of the communication patterns, settings, and tools that people use. Regardless of industry, in survey after survey, almost every employer ranks communication skills as one of their top three criteria when hiring.

Communication students at UWM not only graduate with top-notch communication skills, but they also have a thorough understanding of communication as a process and as a system. They are the individuals who can work with all types of people, bringing out their best. Sales, marketing, media, public relations, human resources, mediation, law, journalism, merchandising, advertising, education, public office, and social welfare are just a few of the most popular post-college careers. At UWM, students can focus their Communication electives around four tracks: interpersonal communication; rhetoric and public communication; intercultural communication; or technology and communication.

The Communication minor can be completed entirely online if desired. Or, students can mix-and-match online and in-person classes in whatever combination they wish.

## Requirements

The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM, and at least a 2.0 GPA on all minor credits attempted when any transfer work is included along with the UWM work. A minor in communication consists of at least 18 credits in communication courses, as distributed below:

Code	Title	Credits
<b>Core</b>		
COMMUN 101	Introduction to Interpersonal Communication	3
COMMUN 103	Public Speaking	3
COMMUN 105	Business and Professional Communication	3
<b>Electives</b>		
Select 9 credits numbered 300 or above (must be taken in residence at UWM)		9
<b>Total Credits</b>		<b>18</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Communication, PhD

### Related Certificates

- Graduate Certificate in Mediation and Negotiation (p. 966)
- Graduate Certificate in Rhetorical Leadership (p. 967)
- Graduate Certificate in Teaching and Learning in Higher Education (p. 331)

The Department of Communication offers MA and PhD programs. The Doctor of Philosophy in Communication provides study and training for entry into academic or professional careers that would necessitate theory-driven basic or applied research on communication practices and outcomes. The program's thrust emphasizes studying the effects of professional communication practices on organizational goals and structure, the processes of interpersonal communication and conflict resolution, and the conduct of civic practice and public communication.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>), hold a master's degree in communication or a related field, and meet these departmental requirements to be considered for admission to the program in regular status:

- Have a cumulative GPA of at least a 3.33 (B+) in course work for the master's degree.
- Submit a reason statement describing your qualifications and reasons for applying to this program, as well as the fit between your interests and department offerings.
- Submit your curriculum vitae outlining relevant qualifications, employment, and scholarly and professional activity.
- Submit letters of recommendation from at least three (3) communication professionals attesting to the student's capability to perform satisfactorily at the doctoral level (academic references preferred).
- Submit a writing sample that demonstrates the applicant's analytical and critical thinking skills.

Applicants lacking the requisite GPA, and those without the Master of Arts/Science in Communication (or an equivalent degree) may be considered for admission on probation, and may be required to complete preparatory coursework.

## Reapplication/Readmission

Students who receive the MA in Communication from UWM must reapply to be considered for admission to the PhD program.

## Credits and Courses

To fulfill the credit requirement for the PhD in Communication, a student must complete at least 54 credits beyond the master's degree, of which at least 48 credits must be in courses numbered 700 or above. Thirty-six (36) credits must be taken from the Communication Department. Students may complete 6 credit hours in courses below 700 offered outside the Department of Communication. Courses taken toward a master's degree will not apply to the doctoral program of studies. The 54 credits must be distributed as follows:

Code	Title	Credits
Select a minimum of 6 credits from communication research tools in courses numbered 900 or above <sup>1</sup>		3
COMMUN 900	Philosophy and Practice of Communication	3
Select a minimum of 18 credits reflecting the student designing a thematic program of study combining theory and praxis in the study of communication processes		18
Select a minimum of 24 additional elective credits		24
COMMUN 990	Research and Thesis <sup>2</sup>	6
<b>Total Credits</b>		<b>54</b>

<sup>1</sup> Students will determine additional research-tool credits in consultation with their advisor, so as to demonstrate methodological competence in their chosen area of study.

<sup>2</sup> No more than 12 credits of COMMUN 990 may be applied toward the 54-credit requirement.

## Additional Requirements

### Major Professor as Advisor

Initially, unless a student specifically requests a particular faculty member, all doctoral students are assigned an "interim" advisor. After the completion of 12 credits, a student is required to designate a faculty member with specialized interests compatible with those of the student to act as the major professor. The major professor is expected to assist the student in planning the remainder of the program of studies, chair the student's preliminary examination committee, supervise the completion of the PhD dissertation, and conduct of the dissertation defense meeting. All students should consult the departmental handbook for additional details on departmental policies and procedures.

### Comprehensive Preliminary Examination

A student must pass all components of a comprehensive preliminary examination to be advanced to candidacy for the doctoral degree. The examining committee is responsible for setting an examination schedule agreeable to all parties subject to the constraints that:

1. examinations must include at least 18 hours of questioning, and
2. must be completed in no longer than two (2) calendar weeks.

Each member of the examining committee must read and pass the student on all examination questions the faculty member contributes. The student must receive a passing evaluation from all members of the committee on the written portion of the examination in order to attempt an oral defense of the examination. An affirmative vote constitutes the committee's decision to advance the student to candidacy for the doctoral degree.

Students who fail the doctoral preliminary examination may not proceed to the dissertation. The exam may be retaken only once. The preliminary examination must be successfully completed within five years of initial enrollment.

### Dissertation

The candidate, under the supervision of the major professor and in collaboration with a dissertation committee, must write a dissertation that demonstrates the ability to formulate a research topic and pursue an independent and original investigation of the chosen topic. The practices for the dissertation will conform to the guidelines established by the UWM Graduate School. The dissertation committee shall be composed of the major professor and four additional graduate faculty members (at least three of whom must be from the Communication Department's graduate faculty). The dissertation committee is responsible for assessing the dissertation project, which involves approving the dissertation prospectus proposal, reviewing working drafts of research in progress, and, finally, evaluating the candidate's ability to defend decisions made during the course of research. After submission of a reading copy of the dissertation to the faculty dissertation committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate's oral remarks, the dissertation committee will vote on passing the candidate's dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

### Residence

The student must meet minimum Graduate School residence requirements (<http://uwm.edu/graduateschool/doctoral-requirements/#residence>) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate

credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master's level.

### Time Limit

All components of the PhD program must be completed within 10 years of matriculation.

## Communication, PhD: Rhetorical Leadership

*Effective Spring 2022, the Rhetorical Leadership concentration has suspended admission.*

Interested students may complete a concentration in rhetorical leadership that will be designated on their transcripts.

*Effective Spring 2022, the Rhetorical Leadership concentration has suspended admission.*

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>), hold a master's degree in communication or a related field, and meet these departmental requirements to be considered for admission to the program in regular status:

- Have a cumulative GPA of at least a 3.33 (B+) in course work for the master's degree.
- Submit a reason statement describing your qualifications and reasons for applying to this program, as well as the fit between your interests and department offerings.
- Submit your curriculum vitae outlining relevant qualifications, employment, and scholarly and professional activity.
- Submit letters of recommendation from at least three (3) communication professionals attesting to the student's capability to perform satisfactorily at the doctoral level (academic references preferred).
- Submit a writing sample that demonstrates the applicant's analytical and critical thinking skills.

Applicants lacking the requisite GPA, and those without the Master of Arts/Science in Communication (or an equivalent degree) may be considered for admission on probation, and may be required to complete preparatory coursework.

### Reapplication/Readmission

Students who receive the MA in Communication from UWM must reapply to be considered for admission to the PhD program.

## Credits and Courses

To fulfill the credit requirement for the PhD in Communication, a student must complete at least 54 credits beyond the master's degree, of which

at least 48 credits must be in courses numbered 700 or above. Thirty-six (36) credits must be taken from the Communication Department. Students may complete 6 credit hours in courses below 700 offered outside the Department of Communication. Courses taken toward a master's degree will not apply to the doctoral program of studies. The 54 credits must be distributed as follows:

Code	Title	Credits
Select a minimum of 6 credits from communication research tools in courses numbered 900 or above <sup>1</sup>		3
COMMUN 900	Philosophy and Practice of Communication	3
Select a minimum of 18 credits reflecting the student designing a thematic program of study combining theory and praxis in the study of communication processes		18
Select a minimum of 24 additional elective credits		24
COMMUN 990	Research and Thesis <sup>2</sup>	6
<b>Total Credits</b>		<b>54</b>

<sup>1</sup> Students will determine additional research-tool credits in consultation with their advisor, so as to demonstrate methodological competence in their chosen area of study.

<sup>2</sup> No more than 12 credits of COMMUN 990 may be applied toward the 54-credit requirement.

## Transcript-Designated Concentration in Rhetorical Leadership

Within the PhD, students may elect to fulfill a transcript-designated concentration in Rhetorical Leadership by completing 15 credits as follows:

Code	Title	Credits
<b>Required</b>		
COMMUN 772	Rhetorical Leadership and Ethics	3
COMMUN 762 or COMMUN 872	Argumentation in Theory and Practice Rhetorics of Constituting Community and Social Controversy	3
<b>Electives</b>		
Select three of the following:		9
COMMUN 701	Critical Analysis of Communication	
COMMUN 735	Rhetorical Theory	
COMMUN 762	Argumentation in Theory and Practice (if not selected above)	
COMMUN 835	Seminar in Contemporary Public Address	
COMMUN 860	Seminar: Issues in Communication: (Subtitle, with a rhetorical topic)	
COMMUN 862	Public Deliberation	
COMMUN 865		
COMMUN 872	Rhetorics of Constituting Community and Social Controversy (if not selected above)	
COMMUN 873	The Digital Mirror	
COMMUN 874	Rhetoric of Women's Rights in the US	
COMMUN 893	Rhetoric of/and the Internet	
COMMUN 973	Topics in Rhetorical Research:	

COMMUN 998	Communication Internship (with rhetorical leadership topic directed by a member of the Rhetorical Leadership Committee)
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**Total Credits**

**15**

## Additional Requirements

### Major Professor as Advisor

Initially, unless a student specifically requests a particular faculty member, all doctoral students are assigned an "interim" advisor. After the completion of 12 credits, a student is required to designate a faculty member with specialized interests compatible with those of the student to act as the major professor. The major professor is expected to assist the student in planning the remainder of the program of studies, chair the student's preliminary examination committee, supervise the completion of the PhD dissertation, and conduct of the dissertation defense meeting. All students should consult the departmental handbook for additional details on departmental policies and procedures.

### Comprehensive Preliminary Examination

A student must pass all components of a comprehensive preliminary examination to be advanced to candidacy for the doctoral degree. The examining committee is responsible for setting an examination schedule agreeable to all parties subject to the constraints that:

1. examinations must include at least 18 hours of questioning, and
2. must be completed in no longer than two (2) calendar weeks.

Each member of the examining committee must read and pass the student on all examination questions the faculty member contributes. The student must receive a passing evaluation from all members of the committee on the written portion of the examination in order to attempt an oral defense of the examination. An affirmative vote constitutes the committee's decision to advance the student to candidacy for the doctoral degree.

Students who fail the doctoral preliminary examination may not proceed to the dissertation. The exam may be retaken only once. The preliminary examination must be successfully completed within five years of initial enrollment.

### Dissertation

The candidate, under the supervision of the major professor and in collaboration with a dissertation committee, must write a dissertation that demonstrates the ability to formulate a research topic and pursue an independent and original investigation of the chosen topic. The practices for the dissertation will conform to the guidelines established by the UWM Graduate School. The dissertation committee shall be composed of the major professor and four additional graduate faculty members (at least three of whom must be from the Communication Department's graduate faculty). The dissertation committee is responsible for assessing the dissertation project, which involves approving the dissertation prospectus proposal, reviewing working drafts of research in progress, and, finally, evaluating the candidate's ability to defend decisions made during the course of research. After submission of a reading copy of the dissertation to the faculty dissertation committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate's oral remarks, the dissertation committee will vote on passing the candidate's dissertation

work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

### Residence

The student must meet minimum Graduate School residence requirements (<http://uwm.edu/graduateschool/doctoral-requirements/#residence>) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing at least 8 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence credit cannot be earned at the master's level.

### Time Limit

All components of the PhD program must be completed within 10 years of matriculation.

## Media Studies, MA

*Effective Spring 2023, the Media Studies MA has suspended admission.*

Mediated communication brings information, persuasion, and entertainment to our neighborhoods, our nation, and our world. As the choices expand and the reach of the media becomes more global, media producers can be anyone from a major corporation to an individual activist with a Web site, and media consumers can interact with the products they encounter in a multitude of ways.

The MA in Media Studies offered through the Department of Journalism, Advertising, and Media Studies is wide ranging and interdisciplinary. The goal of the program is to foster knowledge and understanding of mass media and society through critical, cultural, historical, legal, ethical, or social scientific approaches. One particular emphasis of the program is the relationship between the media and the public interest.

The program is oriented toward academic study rather than instruction in technical skills. The curriculum focuses on research and critical thinking about the media. Students complete 24 credits of coursework and a 6-credit thesis. They work closely with their faculty advisors to design a course of study and to conduct original research for their theses.

Media studies graduate faculty members have national reputations for research in an array of specialties. Students in the master's program also are active in research.

The program's alumni apply what they have learned to a range of endeavors, including media-oriented careers and advanced academic work. An increasing number continue their education in PhD programs.

## Admission Requirements

*Effective Spring 2023, the Media Studies MA has suspended admission.*

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following departmental requirements to be considered for admission to the program:

1. Present an overall undergraduate grade point average of 3.00 or above.
2. Submit three letters of recommendation from persons capable of judging the applicant's capacity for success in a graduate program of study.
3. Submit scores from the General Test section of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>).
4. Submit a sample of original writing in English — a piece of academic or professional work, or a brief essay about a topic of the applicant's choice.

International students, in addition to satisfying the Graduate School's requirements for English language proficiency, must submit TOEFL or IELTS scores sufficiently high to meet program standards.

## Credits and Courses

Students must take 30 graduate credits, at least 24 of which must be in courses offered by the Department of Journalism, Advertising, and Media Studies.

Code	Title	Credits
<b>Required</b>		
JAMS 700	Approaches to Media Studies	3
JAMS 701	Media Studies Research Design	3
Select at least two 800-level seminars offered by the Department of Journalism, Advertising, and Media Studies		6
JAMS 990	Research and Thesis (minimum of 6 credits)	6
<b>Electives</b>		
Select 12 additional graduate credits		12
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Advisors

The department's graduate director initially advises students and helps them find a thesis advisor. Students consult with their advisors as they prepare their course plans and consider thesis topics. The thesis advisor guides the student in preparing a thesis proposal, provides advice on the thesis research, and chairs the thesis committee. In consultation with the graduate director, students may change thesis advisors.

### Thesis

All students write a thesis based on original research. The thesis advisor chairs the thesis committee, which also includes two other members. The committee chair and at least one of the other committee members must be from the Department of Journalism, Advertising, and Media Studies. Normally, all members of a thesis committee will be members of the UWM graduate faculty. With the approval of the thesis advisor and the departmental graduate program committee, a student's thesis committee may include someone who is not a member of the UWM graduate faculty when such a person has at least a master's degree and greater expertise in the subject area than do available members of the graduate faculty.

The thesis advisor guides the student in writing a formal thesis proposal, which must be approved by the thesis committee. After the thesis proposal has been approved, the student carries out the proposed research.

The thesis committee evaluates the written thesis and conducts an oral examination at which the student defends his or her research. A student

receives credit for the thesis only if all three members of the committee approve the thesis.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Mediation and Negotiation, Graduate Certificate

The Department of Communication, in cooperation with the Master's in Human Resources and Labor Relations (MHRLR) and the Sheldon B. Lubar College of Business, offers the Graduate Certificate in Mediation and Negotiation. The program of study is designed to provide practical and theoretical knowledge for students who wish to pursue or advance careers that involve managing or resolving disputes in organizational, educational, community, or family contexts. The program is designed to meet the increasing need of business, organized labor, public sector, and community organizations for people with skills in conflict resolution.

Using an interdisciplinary approach, the program offers a basic knowledge of mediation and negotiation between individuals and across organizations, allows some specialization in further coursework, and is integrated with a final course involving either field-work or a research paper written under the direction of an expert in the area. Students can complete the Graduate Certificate in Mediation and Negotiation while enrolled either part-time or full-time.

With the approval of the program, students admitted to either the Master of Arts in Communication or the Master of Human Resources and Labor Relations degree program may apply courses taken to meet certificate requirements toward their degree.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Eligibility and Admission

Students applying for the Certificate Program in Mediation and Negotiation must hold a bachelor's degree and must have earned a 2.75 GPA overall or must furnish substantial evidence of ability to succeed in graduate-level work.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.

- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The certificate requires 12 credits, including 9 credits of coursework and 3 credits of field work or research.

Code	Title	Credits
<b>Required</b>		
COMMUN 665	Introduction to Mediation	3
ECON 753	Collective Bargaining	3
<b>Elective</b>		
Select one of the following:		3
COMMUN 865		
IND REL 715	Workplace Dispute Resolution	
BUS ADM 737	Managerial Decisions and Negotiations	
<b>Field Work or Research Requirement</b>		
Select one of the following:		3
COMMUN 998	Communication Internship	
COMMUN 999	Independent Study	
IND REL 801	Research Project in Industrial and Labor Relations	
IND REL 921	Internship in Industrial Relations	
IND REL 999	Independent Study	
BUS ADM 799	Reading and Research	
<b>Total Credits</b>		<b>12</b>

## Recommended or Related Courses

Not required for the Certificate.

Code	Title	Credits
COMMUN 823	Seminar in Small Group Communication	3
ED POL 510	Human Relations for Community Organizations & Community Engagement	3

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the

degree. (Note: Students in PhD programs must still complete the minimum residency requirements)

- Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- 2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- 3. A course may count toward no more than one certificate and one degree.
- 4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Rhetorical Leadership, Graduate Certificate

*Effective Spring 2022, the Rhetorical Leadership Certificate has suspended admission.*

Leadership is a highly valued, yet always scarce resource in all areas requiring coordinated action: civil society, professional work, profit and non-profit venues, religious and social action contexts. Communication's Rhetorical Leadership certificate program prepares leaders with humanistic knowledge, skills and attitudes through five graduate courses.

"Rhetorical Leadership and Ethics" covers rhetoric's role in and potential for responsible leadership in multiple arenas; it is informed by the long history of debate over the legitimacy of studying rhetoric as a means of promoting joint action.

"Rhetoric of Constituting Community and Social Controversy" addresses explicitly the rhetorical range available to leaders, whether their main goal is constituting communities or promoting change in ways that the existing decision-making channels cannot accommodate.

"Argumentation in Theory and Practice" integrates argumentative theory and practice in ways that are useful for potential leaders; it involves some performance-based learning that requires students to test their preferred theory alternatives in action.

*Effective Spring 2022, the Rhetorical Leadership Certificate has suspended admission.*

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Eligibility and Admission

Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted to a certificate program.

## Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
<b>Required</b>		
COMMUN 772	Rhetorical Leadership and Ethics	3
COMMUN 762	Argumentation in Theory and Practice	3
or COMMUN 872	Rhetorics of Constituting Community and Social Controversy	
<b>Electives</b>		
Select three of the following:		9
COMMUN 665	Introduction to Mediation	
COMMUN 667	Great American Speakers and Issues	
COMMUN 672	Communication and Social Order	
COMMUN 701	Critical Analysis of Communication	
COMMUN 735	Rhetorical Theory	
COMMUN 762	Argumentation in Theory and Practice (if not selected above)	
COMMUN 835	Seminar in Contemporary Public Address	
COMMUN 860	Seminar: Issues in Communication: (Subtitle, with a rhetorical topic)	
COMMUN 862	Public Deliberation	
COMMUN 865		
COMMUN 872	Rhetorics of Constituting Community and Social Controversy (if not selected above)	
COMMUN 873	The Digital Mirror	
COMMUN 874	Rhetoric of Women's Rights in the US	
COMMUN 893	Rhetoric of/and the Internet	
COMMUN 973	Topics in Rhetorical Research: (Subtitled)	
COMMUN 998	Communication Internship (with rhetorical leadership topic directed by a member of the Rhetorical Leadership Committee)	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. Courses will be considered for transfer into the certificate program only if the applicant can provide ample, acceptable evidence that the course taken is substantially the same as one of the five courses that constitute the certificate program. The Rhetorical Leadership Committee will make such determinations, and its decision is final. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program. No transfer credit is allowed for post-graduate students.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.

- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Gainful Employment Disclosure Information

- UWM Financial Aid Gainful Employment (<https://uwm.edu/onestop/finances/receiving-financial-aid/non-degree-students/#primary>)
- Gainful Employment Disclosure Information (<https://uwm.edu/gis-certificate/wp-content/uploads/sites/323/2019/06/gis-cert-gedt-2019.pdf>)

## Conservation and Environmental Science

The alarming rate of climate change, habitat destruction and, species extinction over the last 2 decades has catalyzed our resolve to find solutions to growing environmental problems:

- the contamination of air, water and soil;
- the spread of toxic chemicals;
- invading species driving out native populations, and
- the progressive loss of habitats that species need to grow, survive, and reproduce.

These problems are not simple; finding solutions requires the integration and interpretation of biological, chemical, geological, and social sciences. Coursework in our undergraduate interdisciplinary program provides training in areas such as ecosystem management, natural resources conservation, environmental assessment, and environmental education.

## Programs

- Conservation and Environmental Science, Minor (p. 968)
- Conservation and Environmental Sciences, BA (p. 969)
- Conservation and Environmental Sciences, BS (p. 974)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Glen Fredlund	Associate Professor	PhD	University of Kansas		✓
Neal T. O'Reilly	Lecturer	PhD	Marquette University		
Chris Young	Teaching Professor	PhD	University of Minnesota		

## Conservation and Environmental Science, Minor

At UWM, students with a passion for nature and the environment can obtain a solid education in the natural sciences that are central to environmental science - biology, geosciences, and chemistry - and the social sciences of geography, economics, and politics which guide the application of conservation and environmental science in the real world.

Students at UWM can focus their conservation and environmental science work around land resources, water resources, biological resources/biodiversity, or environmental analysis. Internships and field work complement classroom learning. These opportunities can be found locally at UWM's own Field Station (<http://uwm.edu/letters-science/programs/?discipline=Field+Station>), on Lake Michigan aboard UWM's R/V Neeskay vessel, and at local agencies, or abroad in places as far flung as Iceland, Africa, Romania and the Caribbean.



An active Conservation Club is another student advantage at UWM. Activities range from on-campus sustainability projects to professional networking and more.

It is recommended that students obtain at least one semester of practical work or internship experience, either as an employee or as a volunteer, with state or federal resource management agencies, consulting firms, conservation or environmental organizations, or with nature centers or local parks.

## Requirements

The Conservation and Environmental Science minor requires completion of a minimum of 25 credits distributed among CES courses and approved electives, with at least 12 credits in upper-level (numbered 300 and above) courses. Students must complete at least 9 upper-level credits for the minor in residence at UWM and must attain a 2.0 GPA on all UWM credits attempted for the minor. In addition, the College requires that students attain a 2.0 GPA on all minor credits attempted, including transfer work.

Code	Title	Credits
<b>Introductory Core Requirements</b> <sup>1</sup>		
CES 210	Introduction to Conservation and Environmental Science	3
GEO SCI 100 or GEOG 120	Introduction to the Earth Our Physical Environment	3
Select one of the following:		4-5
CHEM 100	Chemical Science	
CHEM 102	General Chemistry	
CHEM 105	General Chemistry for Engineering	
BIO SCI 102 or BIO SCI 150	Elements of Biology Foundations of Biological Sciences I	3
<b>Upper-Level Requirements</b>		
CES 471 or GEOG 350	Practicum in Natural Resources Management Conservation of Natural Resources	3-4
Select at least 9 upper-level (numbered 300 or above) credits <sup>2</sup>		9
<b>Total Credits</b>		<b>25-27</b>

<sup>1</sup> Students pursuing BS degrees and those interested in taking upper-level natural science classes such as BIO SCI 310 should take CHEM 102 and BIO SCI 150 as part of their introductory core requirements.

<sup>2</sup> Selected from the list of approved elective courses for the CES major, found here (p. 969) or here (p. 974). At least 6 of these must be taken outside the student's major program and at least 3 must be from the natural sciences.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not

need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Conservation and Environmental Sciences, BA

At UWM, students with a passion for nature and the environment can obtain a solid education in the natural sciences that are central to environmental science - biology, geosciences, and chemistry - and the social sciences of geography, economics, and politics which guide the application of conservation and environmental science in the real world.

Students at UWM can focus their conservation and environmental science work around land resources, water resources, biological resources/biodiversity, or environmental analysis. Internships and field work complement classroom learning. These opportunities can be found locally at UWM's own Field Station (<http://uwm.edu/letters-science/programs/?discipline=Field+Station>), on Lake Michigan aboard UWM's R/V Neeskey vessel, and at local agencies, or abroad in places as far flung as Iceland, Africa, Romania and the Caribbean.

An active Conservation Club is another student advantage at UWM. Activities range from on-campus sustainability projects to professional networking and more.

UWM's CES major builds on students' passion to solve environmental issues through either a BS or a BA degree. The BS requires more courses in math, biology, chemistry, and science and is suitable for careers in field or laboratory work, while the BA has fewer electives in science for a career in public programming, education, or administration.

Because of the breadth and flexibility of this major, students should consult with the Director and/or Coordinator to plan a course of study, preferably before the start of their sophomore year. It is particularly important to begin the introductory course sequences early, since they are prerequisites for advanced courses.

It is recommended that students obtain at least one semester of practical work or internship experience, either as an employee or as a volunteer, with state or federal resource management agencies, consulting firms, conservation or environmental organizations, or with nature centers or local parks.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within

five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
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### Oral and Written Communication

#### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)	
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#### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits	3
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### Humanities

Select 6 credits	6
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### Social Sciences

Select 6 credits	6
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### Natural Sciences

Select 6 credits (at least two courses including one lab)	6
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### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		

AFRIC 220	Introduction to Statistics in African and African Diaspora Studies
ANTHRO 568	Introduction to Anthropological Statistics
BIO SCI 465	Biostatistics
ECON 210	Economic Statistics
GEOG 247	Quantitative Analysis in Geography
HIST 595	The Quantitative Analysis of Historical Data
MTHSTAT 215	Elementary Statistical Analysis
PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences

(SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Conservation and Environmental Science Major Requirements

For those students interested in the Water Track, please see the Bachelor of Science in Conservation and Environmental Science (p. 974) major.

### Coursework for the Major (Conservation and Natural Resources Track)

The **Conservation and Natural Resources Track** requires a minimum of 54 credits, 29 of which are advanced-level. All students in the Conservation and Natural Resources track must fulfill the required 36 credits (25 lower-level core credits, and 11 advanced-level credits) and an additional 18 advanced-level credits from among the approved Conservation and Natural Resources Track electives.

Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Code	Title	Credits
<b>Required Introductory Core</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
CES 210	Introduction to Conservation and Environmental Science	3
CHEM 102	General Chemistry	5
GEO SCI 100 or GEOG 120	Introduction to the Earth Our Physical Environment	3
GEO SCI 102 or GEO SCI 150	Principles of Historical Geology Introduction to Ocean Sciences	3
GEOG 215	Introduction to Geographic Information Science	3
<b>Mid-Level Distributional Requirement</b>		
BIO SCI 310	General Ecology	4
GEOG 350	Conservation of Natural Resources	3
<b>Upper-Level Core</b>		
Select 18 upper-level approved CES electives with at least 3 credits taken from each of the following areas		18
Biological Sciences		
Geosciences		
Geography		
<b>Research Requirement</b>		
CES 471	Practicum in Natural Resources Management	4
<b>Total Credits</b>		<b>54</b>

### List of Approved Electives in the Conservation and Natural Resources Track

Code	Title	Credits
ANTHRO 103	Digging Up the Past: Approaches to Archaeology	3
BIO SCI 289	Internship in Biological Sciences, Lower Division	1-6
BIO SCI 315	Cell Biology	3

BIO SCI 325	Genetics	4
BIO SCI 358	Birds of Wisconsin	2
BIO SCI 370	Mammalian Physiology	3
BIO SCI 383	General Microbiology	4
BIO SCI 406	Marine Biology	3
BIO SCI 440	Ecology and Evolution of Amphibians and Reptiles	3
BIO SCI 451	Field Methods in Conservation	3
BIO SCI 465	Biostatistics	3
BIO SCI 480	Ecological Genetics	3
BIO SCI 489	Internship in Biological Sciences, Upper Division	1-6
BIO SCI 500	Plant Physiology	3
BIO SCI 501	Plant and Aquatic Ecophysiology Laboratory	3
BIO SCI 502	Introduction to Programming and Modeling in Ecology and Evolution	3
BIO SCI 505	Conservation Biology	3
BIO SCI 512	Limnology I	3
BIO SCI 523	Evolution and Ecology of Birds	3
BIO SCI 532	Behavioral Ecology	3
BIO SCI 540	Microbial Diversity and Physiology	3
BIO SCI 562	Topics in Field Biology:	1-2
BIO SCI 575	Evolutionary Biology	3
BIO SCI 611	Seminar on Recent Advances in Limnology and Oceanography	2
CES 289	Internship in Environmental Studies, Lower Division	1-6
CES 451	Field Methods in Conservation	3
CES 461	The Politics and Policy of Sustainability	3
CES 489	Internship in Environmental Studies, Upper Division	1-6
CES 497	Study Abroad:	1-12
CES 499	Ad Hoc:	1-6
CES 515	Environmental Law for Natural Resource Managers	3
CES 651	Principles of Stream Management and Restoration	3
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 221	Elementary Quantitative Analysis	4
CHEM 341	Introductory Survey of Organic Chemistry	3
CHEM 342	Introductory Organic Chemistry Laboratory	2
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 501	Introduction to Biochemistry	3
CHEM 524	Instrumental Analysis	3
CHEM 560	Biophysical Chemistry	3
CHEM 603	Introduction to Biochemistry Laboratory	2
ECON 328	Environmental Economics	3

GEOG 215	Introduction to Geographic Information Science	3
GEOG 247	Quantitative Analysis in Geography	3
GEOG 304	Human Impact on the Environment	3
GEOG 306	Natural Hazards	3
GEOG 310	General Climatology	3
GEOG 340	Biogeography	3
GEOG 403	Remote Sensing: Environmental and Land Use Analysis	4
GEOG 405	Cartography	4
GEOG 415	Hydrogeography	3
GEOG 450	Climates of the Past and Climate Change	3
GEOG 464	Environmental Problems	3
GEOG 515	Watershed Analysis and Modeling	3
GEOG 520	Physical Geography of the City	3
GEOG 525	Geographic Information Science	4
GEOG 547	Spatial Analysis	4
GEOG 564	Urban Environmental Change and Social Justice	3
GEOG 625	Intermediate Geographic Information Science	4
GEOG 650	Geography Field Work	3
GEO SCI 301	Principles of Mineralogy	4
GEO SCI 400	Water Quality	4
GEO SCI 409	Process Geomorphology	4
GEO SCI 421	Conservation Paleontology	3
GEO SCI 422	Plant-Insect Interactions in Deep Time	3
GEO SCI 443	Glacial and Pleistocene Geology	4
GEO SCI 463	Physical Hydrogeology	4
GEO SCI 464	Chemical Hydrogeology	4
GEO SCI 511	Stratigraphy and Sedimentation	4
GEO SCI 515	Physical Sedimentology	4
GEO SCI 520	Introduction to Paleontology	4
GEO SCI 525	Terroir: Geology in a Glass	3
GEO SCI 562	Environmental Surface Hydrology	3
GEO SCI 563	Field Methods in Hydrogeology	4
GEO SCI 696	Topics in the Geological Sciences:	1-3
GEO SCI 697	Seminar in the Geological Sciences:	1-3
MTHSTAT 215	Elementary Statistical Analysis	3
POL SCI 383	Environmental Political Theory	3

### Approved CES Course Electives Outside of the College of Letters and Science

Although the following courses may count as credits toward the CES major requirements, they do not count to satisfy the advanced L&S credits requirement for the degree. Consult the program coordinator before enrolling any of these courses.

Code	Title	Credits
ARCH 340	Urban Design	3
ATM SCI 100	Survey of Meteorology	3
ATM SCI 240	Introduction to Meteorology	4
ATM SCI 330	Air-Pollution Meteorology	3
CIV ENG 492	Environmental Impact Assessment	3

FRSHWTR 502	Aquatic Ecosystem Dynamics	3
FRSHWTR 322	Ecology and Evolution of Freshwater Organisms	3
FRSHWTR 361	Introduction to Environmental Data Systems	3
FRSHWTR 391	Water and Natural Resource Economics	3
FRSHWTR 392	Water, Energy, Food, and Climate	3
FRSHWTR 393	Water Law, Policy, and the Environment	3
FRSHWTR 471	Introduction to Sensing Networks	3
FRSHWTR 504	Quantitative Freshwater Analysis	3
PH 375	Topics in Public Health:	3
URBPLAN 591	Introduction to Urban Geographic Information Systems (GIS) in Planning	3

### Other Potential Courses

Because of the interdisciplinary nature of the Conservation and Environmental Science Program, students are encouraged to work with the program coordinator to identify classes that will enable them best to gain the knowledge to achieve their goals. CES students can petition the Program to accept many classes beyond those listed above, if they are appropriate for the major and the individual student's program of study. For example, the following courses may apply:

Code	Title	Credits
ARCH 601	Special Topics:	1-3
ANTHRO 699	Independent Work	1-3
BIO SCI 497	Study Abroad:	1-12
BIO SCI 599	Special Topics in Biological Sciences:	1-3
BIO SCI 699	Independent Study	1-3
FRSHWTR 690	Undergraduate Seminar in Freshwater Sciences:	1-3
GEOG 698	GIS/Cartography Internship	1-6
GEOG 699	Independent Work	1-3
GEO SCI 699	Advanced Independent Reading	1-3

## Declaration of Major

Students wishing to declare the major can obtain the necessary information and materials from the Biological Sciences Office (Lapham Hall, Room 181) or the CES Program Coordinator's office (Lapham Hall, Room 393) or from their College of Letters and Science advisor.

In order to be accepted into the CES program, students should be in their sophomore year and have completed:

Code	Title	Credits
CES 210	Introduction to Conservation and Environmental Science	3
BIO SCI 150	Foundations of Biological Sciences I	4
GEO SCI 100 or GEOG 120	Introduction to the Earth Our Physical Environment	3

In addition to course work in the major, good communication skills are essential; students should take courses in public speaking and technical writing. Computer literacy and knowledge of statistics also are highly desirable. Additionally, introductory courses in economics, ethics, political science, and sociology are recommended. The coordinator or a

Letters and Science advisor can provide a current list of recommended courses.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Conservation and Environmental Sciences, BS

At UWM, students with a passion for nature and the environment can obtain a solid education in the natural sciences that are central to environmental science - biology, geosciences, and chemistry - and the social sciences of geography, economics, and politics which guide the application of conservation and environmental science in the real world.

Students at UWM can focus their conservation and environmental science work around land resources, water resources, biological resources/biodiversity, or environmental analysis. Internships and field work complement classroom learning. These opportunities can be found locally at UWM's own Field Station (<http://uwm.edu/letters-science/programs/?discipline=Field+Station>), on Lake Michigan aboard UWM's R/V Neeskay vessel, and at local agencies, or abroad in places as far flung as Iceland, Africa, Romania and the Caribbean.

An active Conservation Club is another student advantage at UWM. Activities range from on-campus sustainability projects to professional networking and more.

UWM's CES major builds on students' passion to solve environmental issues through either a BS or a BA degree. The BS requires more courses in math, biology, chemistry, and science and is suitable for careers in field or laboratory work, while the BA has fewer electives in science for a career in public programming, education, or administration.

Because of the breadth and flexibility of this major, students should consult with the Director and/or Coordinator to plan a course of study, preferably before the start of their sophomore year. It is particularly important to begin the introductory course sequences early, since they are prerequisites for advanced courses.

It is recommended that students obtain at least one semester of practical work or internship experience, either as an employee or as a volunteer, with state or federal resource management agencies, consulting firms, conservation or environmental organizations, or with nature centers or local parks.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students

must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
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### Oral and Written Communication

#### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)
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#### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra

Or equivalent course

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits	3
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### Humanities

Select 6 credits	6
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### Social Sciences

Select 6 credits	6
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### Natural Sciences

Select 6 credits (at least two courses including one lab)	6
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### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	

PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *	12
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### Cultural Diversity

Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3
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\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

## Conservation and Environmental Science Major Requirements

Conservation and Environmental Sciences offers two undergraduate tracks with separate sets of required classes: **Conservation and Natural Resources** and **Water Resources**.

The **Conservation and Natural Resources Track** is the broader of the two tracks, and gives students the widest range of options. Areas of emphasis, or focus areas, within this track include Land Resources, Conservation Biology, GIS Application, Natural Resource Policy, and Environmental Interpretation.

The **Water Resources Track** provides students with knowledge and skills critical for futures relating to water resources. Within this track, students may choose to focus on Environmental Chemistry and Toxicology, Surface and Groundwater Hydrology, or Aquatic Ecology and Limnology. Completion of this track will prepare students for graduate studies in water resources.



## Coursework for the Major (Conservation and Natural Resources Track)

The **Conservation and Natural Resources Track** requires a minimum of 54 credits, 29 of which are advanced-level. All students in the Conservation and Natural Resources track must fulfill the required 36 credits (25 lower-level core credits, and 11 advanced-level credits) and an additional 18 advanced-level credits from among the approved Conservation and Natural Resources Track electives. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Code	Title	Credits
<b>Required Introductory Core</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
CES 210	Introduction to Conservation and Environmental Science	3
CHEM 102	General Chemistry	5
GEO SCI 100 or GEOG 120	Introduction to the Earth Our Physical Environment	3
GEO SCI 102 or GEO SCI 150	Principles of Historical Geology Introduction to Ocean Sciences	3
GEOG 215	Introduction to Geographic Information Science	3
<b>Mid-Level Distributional Requirement</b>		
BIO SCI 310	General Ecology	4
GEOG 350	Conservation of Natural Resources	3
<b>Upper-Level Core</b>		
Select 18 upper-level approved CES electives with at least 3 credits taken from each of the following areas		18
Biological Sciences		
Geosciences		
Geography		
<b>Research Requirement</b>		
CES 471	Practicum in Natural Resources Management	4
<b>Total Credits</b>		<b>54</b>

## List of Approved Electives in the Conservation and Natural Resources Track

Code	Title	Credits
ANTHRO 103	Digging Up the Past: Approaches to Archaeology	3
BIO SCI 289	Internship in Biological Sciences, Lower Division	1-6
BIO SCI 315	Cell Biology	3
BIO SCI 325	Genetics	4
BIO SCI 358	Birds of Wisconsin	2
BIO SCI 370	Mammalian Physiology	3
BIO SCI 383	General Microbiology	4
BIO SCI 406	Marine Biology	3
BIO SCI 440	Ecology and Evolution of Amphibians and Reptiles	3
BIO SCI 451	Field Methods in Conservation	3

BIO SCI 465	Biostatistics	3
BIO SCI 480	Ecological Genetics	3
BIO SCI 489	Internship in Biological Sciences, Upper Division	1-6
BIO SCI 500	Plant Physiology	3
BIO SCI 501	Plant and Aquatic Ecophysiology Laboratory	3
BIO SCI 502	Introduction to Programming and Modeling in Ecology and Evolution	3
BIO SCI 505	Conservation Biology	3
BIO SCI 512	Limnology I	3
BIO SCI 523	Evolution and Ecology of Birds	3
BIO SCI 532	Behavioral Ecology	3
BIO SCI 540	Microbial Diversity and Physiology	3
BIO SCI 562	Topics in Field Biology:	1-2
BIO SCI 611	Seminar on Recent Advances in Limnology and Oceanography	2
BIO SCI 575	Evolutionary Biology	3
CES 289	Internship in Environmental Studies, Lower Division	1-6
CES 451	Field Methods in Conservation	3
CES 461	The Politics and Policy of Sustainability	3
CES 489	Internship in Environmental Studies, Upper Division	1-6
CES 497	Study Abroad:	1-12
CES 499	Ad Hoc:	1-6
CES 515	Environmental Law for Natural Resource Managers	3
CES 651	Principles of Stream Management and Restoration	3
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 221	Elementary Quantitative Analysis	4
CHEM 341	Introductory Survey of Organic Chemistry	3
CHEM 342	Introductory Organic Chemistry Laboratory	2
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 501	Introduction to Biochemistry	3
CHEM 524	Instrumental Analysis	3
CHEM 560	Biophysical Chemistry	3
CHEM 603	Introduction to Biochemistry Laboratory	2
ECON 328	Environmental Economics	3
GEOG 215	Introduction to Geographic Information Science	3
GEOG 247	Quantitative Analysis in Geography	3
GEOG 304	Human Impact on the Environment	3
GEOG 306	Natural Hazards	3
GEOG 310	General Climatology	3
GEOG 340	Biogeography	3

GEOG 403	Remote Sensing: Environmental and Land Use Analysis	4	PHYSICS 120	General Physics I (Non-Calculus Treatment)	4
GEOG 405	Cartography	4	PHYSICS 121	General Physics Laboratory I (Non-Calculus Treatment)	1
GEOG 415	Hydrogeography	3	<b>Mid-Level Distributional Requirement</b>		
GEOG 450	Climates of the Past and Climate Change	3	BIO SCI 310	General Ecology	4
GEOG 464	Environmental Problems	3	GEOG 350	Conservation of Natural Resources	3
GEOG 515	Watershed Analysis and Modeling	3	<b>Upper-Level Core</b>		
GEOG 520	Physical Geography of the City	3	Select 18 upper-level approved electives from the Water Resources electives		18
GEOG 525	Geographic Information Science	4	<b>Research Requirement</b>		
GEOG 547	Spatial Analysis	4	CES 471	Practicum in Natural Resources Management	4
GEOG 564	Urban Environmental Change and Social Justice	3	<b>Total Credits</b>		
GEOG 625	Intermediate Geographic Information Science	4			<b>61</b>
GEOG 650	Geography Field Work	3	<b>List of Approved Electives for the Water Resources Track</b>		
GEO SCI 301	Principles of Mineralogy	4	<b>Code</b>	<b>Title</b>	<b>Credits</b>
GEO SCI 400	Water Quality	4	BIO SCI 383	General Microbiology	4
GEO SCI 409	Process Geomorphology	4	BIO SCI 406	Marine Biology	3
GEO SCI 421	Conservation Paleontology	3	BIO SCI 440	Ecology and Evolution of Amphibians and Reptiles	3
GEO SCI 422	Plant-Insect Interactions in Deep Time	3	BIO SCI 465	Biostatistics	3
GEO SCI 443	Glacial and Pleistocene Geology	4	BIO SCI 500	Plant Physiology	3
GEO SCI 463	Physical Hydrogeology	4	BIO SCI 501	Plant and Aquatic Ecophysiology Laboratory	3
GEO SCI 464	Chemical Hydrogeology	4	BIO SCI 502	Introduction to Programming and Modeling in Ecology and Evolution	3
GEO SCI 511	Stratigraphy and Sedimentation	4	BIO SCI 512	Limnology I	3
GEO SCI 515	Physical Sedimentology	4	BIO SCI 532	Behavioral Ecology	3
GEO SCI 520	Introduction to Paleontology	4	BIO SCI 540	Microbial Diversity and Physiology	3
GEO SCI 525	Terroir: Geology in a Glass	3	BIO SCI 575	Evolutionary Biology	3
GEO SCI 562	Environmental Surface Hydrology	3	BIO SCI 611	Seminar on Recent Advances in Limnology and Oceanography	2
GEO SCI 563	Field Methods in Hydrogeology	4	CES 461	The Politics and Policy of Sustainability	3
GEO SCI 696	Topics in the Geological Sciences:	1-3	CES 651	Principles of Stream Management and Restoration	3
GEO SCI 697	Seminar in the Geological Sciences:	1-3	CHEM 341	Introductory Survey of Organic Chemistry	3
MTHSTAT 215	Elementary Statistical Analysis	3	CHEM 342	Introductory Organic Chemistry Laboratory	2
POL SCI 383	Environmental Political Theory	3	CHEM 343	Organic Chemistry	3

### Coursework for the Major (Water Resources Track)

The **Water Resources Track** requires a minimum of 61 credits, 29 of which are advanced-level. All students in the Water Resources Track must fulfill the required 43 credits (32 lower-level core credits, and 11 advanced-level credits) and an additional 18 advanced-level credits from among the approved Water Resources Track electives.

Code	Title	Credits
<b>Required Introductory Core</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
CES 210	Introduction to Conservation and Environmental Science	3
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
GEO SCI 100 or GEOG 120	Introduction to the Earth Our Physical Environment	3
GEOG 215	Introduction to Geographic Information Science	3
ECON 328	Environmental Economics	3
GEOG 247	Quantitative Analysis in Geography	3
GEOG 304	Human Impact on the Environment	3
GEOG 306	Natural Hazards	3
GEOG 310	General Climatology	3
GEOG 340	Biogeography	3

GEOG 403	Remote Sensing: Environmental and Land Use Analysis	4
GEOG 405	Cartography	4
GEOG 415	Hydrogeography	3
GEOG 515	Watershed Analysis and Modeling	3
GEOG 520	Physical Geography of the City	3
GEOG 525	Geographic Information Science	4
GEOG 625	Intermediate Geographic Information Science	4
GEOG 650	Geography Field Work	3
GEO SCI 400	Water Quality	4
GEO SCI 421	Conservation Paleontology	3
GEO SCI 422	Plant-Insect Interactions in Deep Time	3
GEO SCI 463	Physical Hydrogeology	4
GEO SCI 464	Chemical Hydrogeology	4
GEO SCI 511	Stratigraphy and Sedimentation	4
GEO SCI 515	Physical Sedimentology	4
GEO SCI 520	Introduction to Paleontology	4
GEO SCI 525	Terroir: Geology in a Glass	3
GEO SCI 562	Environmental Surface Hydrology	3
GEO SCI 563	Field Methods in Hydrogeology	4
GEO SCI 637	Planetary Geology	3
GEO SCI 696	Topics in the Geological Sciences:	1-3
MTHSTAT 215	Elementary Statistical Analysis	3
POL SCI 383	Environmental Political Theory	3

FRSHWTR 563	Finfish Aquaculture and Nutrition Principles	3
FRSHWTR 567	Fish Health	3
PH 375	Topics in Public Health:	3
URBPLAN 591	Introduction to Urban Geographic Information Systems (GIS) in Planning	3

## Declaration of Major

Students wishing to declare the major can obtain the necessary information and materials from the Biological Sciences Office (Lapham Hall, Room 181) or the CES Program Coordinator's office (Lapham Hall, Room 393) or from their College of Letters and Science advisor.

In order to be accepted into the CES program, students should be in their sophomore year and have completed:

Code	Title	Credits
CES 210	Introduction to Conservation and Environmental Science	3
BIO SCI 150	Foundations of Biological Sciences I	4
GEO SCI 100 or GEOG 120	Introduction to the Earth Our Physical Environment	3

In addition to course work in the major, good communication skills are essential; students should take courses in public speaking and technical writing. Computer literacy and knowledge of statistics also are highly desirable. Additionally, introductory courses in economics, ethics, political science, and sociology are recommended. The coordinator or a Letters and Science advisor can provide a current list of recommended courses.

## Approved CES Course Electives for both Tracks Outside of the College of Letters and Science

**Note:** Although the following courses may count as credits toward the CES major requirements, they do not count to satisfy the advanced L&S credits requirement for the degree. Consult the Coordinator before enrolling in any of these courses.

Code	Title	Credits
ARCH 340	Urban Design	3
ATM SCI 100	Survey of Meteorology	3
ATM SCI 240	Introduction to Meteorology	4
ATM SCI 330	Air-Pollution Meteorology	3
CIV ENG 492	Environmental Impact Assessment	3
FRSHWTR 322	Ecology and Evolution of Freshwater Organisms	3
FRSHWTR 361	Introduction to Environmental Data Systems	3
FRSHWTR 391	Water and Natural Resource Economics	3
FRSHWTR 392	Water, Energy, Food, and Climate	3
FRSHWTR 393	Water Law, Policy, and the Environment	3
FRSHWTR 471	Introduction to Sensing Networks	3
FRSHWTR 502	Aquatic Ecosystem Dynamics	3
FRSHWTR 504	Quantitative Freshwater Analysis	3
FRSHWTR 506	Environmental Health of Freshwater Ecosystems	3
FRSHWTR 510	Economics, Policy and Management of Water	3
FRSHWTR 512	Freshwater Sciences Practicum:	2-4

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

# Cultures and Communities, Undergraduate Certificate

One of the most exciting things about college is the opportunity to meet and work with people from so many different backgrounds and walks of life. Cultures and Communities operates around the premise that learning to work across differences of cultural background and experience is a process essential to intellectual growth and lifelong learning, and ultimately to building a better world. The Cultures and Communities (CC) undergraduate certificate program promotes such experiences through its unique array of interdisciplinary classes, collaborative projects, and community-based learning.

The Certificate provides students with a thorough understanding of the social construction of cultural identities and their relationship to history, society, politics, and economics. Students explore the multicultural construction of America and examine the community and culture of art, sexuality, gender, race, health, ethics, religion, and technology. The

certificate is valuable and applicable in any career that involves working with people - which is almost everything.

As part of the requirements for the certificate, students complete a service learning component where they work in the community, tying their classroom learning to real world experiences. And, because so many of these classes also count as general education requirements, many students find it quite seamless to add the certificate into their education plan.

## Eligibility

The Cultures and Communities Certificate is open to all degree-seeking undergraduates at UWM to complement the student's major. All students are required to complete an exit survey before the certificate is awarded.

## Requirements

Students must complete at least 3 credits in each of the areas below, including one course with a service learning component. All students are required to complete an exit survey before the certificate is awarded.

The following list of courses approved for the CC certificate indicates which requirement of the certificate is fulfilled by each course and how each course counts toward the University General Education Requirements. L&S students who wish to have their CC courses count toward their Letters and Science breadth requirements must select L&S courses. A single course may satisfy only one area. For the most up-to-date list, contact the Cultures and Communities Program office.

Code	Title	Credits
<b>Area I. Cultures and Communities Core</b>		
Select 3 credits		3
<b>Area II. Cultures and Communities of the United States</b>		
Select 3 credits		3
<b>Area III. Global Perspectives on Culture and Community</b>		
Select 3 credits		3
<b>Area IV. Art, Culture, and Community</b>		
Select 3 credits		3
<b>Area V. Science, Culture, and Society</b>		
Select 3 credits		3
<b>Total Credits</b>		<b>15</b>

### Area I. Cultures and Communities Core Course

Code	Title	Credits
ANTHRO 150	Multicultural America (SS/CD)	3
ART 150	Multicultural America (A/CD)	3
ENGLISH 150	Multicultural America (HU/CD)	3
FILM 150	Multicultural America (A/CD)	3
HIST 150	Multicultural America (HU/CD)	3
POL SCI 150	Multicultural America: Minority Voting Rights and Representation (CD)	3
URBPLAN 350	Social Justice, Urban Planning and the New Multicultural America (CD)	3
URB STD 150	Multicultural America (SS/CD)	3
WGS 150	Multicultural America (HU/CD)	3

**Area II. Cultures and Communities of the United States**

Code	Title	Credits
AFRIC 100	Black Reality: Survey of African-American Society (HU/CD)	3
AFRIC 102	Survey of African-American Literature (HU/CD)	3
AFRIC 111	Introduction to African-American History to 1865 (HU/CD)	3
AFRIC 112	Introduction to African-American History, 1865 to the Present (HU/CD)	3
AFRIC 125	Economics of the Black Community (SS/CD)	3
AFRIC 192	First-Year Seminar: (African American Life Stories) (HU)	3
AFRIC 193	First-Year Seminar: (Race in Popular Culture) (SS)	3
AFRIC 205	The Poetry of African, African-American, and Caribbean Writers (HU/CD) (if not selected in Area III)	3
AFRIC 210	The African-American Novel (HU/CD)	3
AFRIC 215	Introduction to Black Social and Cultural Traditions (SS)	3
AFRIC 228	Introduction to Black Political Economy (SS)	3
AFRIC 250	Black Women and White Women in the Contemporary United States (SS)	3
AFRIC 265	Psychological Effects of Racism (SS/CD)	3
AFRIC 314	The School in African-American Life (HU/CD)	3
AIS 101	Introduction to American Indian Studies (SS/CD)	3
AIS 105	Anishinaabe Ethnobotany: Plants in Anishinaabe Culture (CD)	3
AIS 106	Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD)	3
AIS 192	First-Year Seminar: (HU)	3
AIS 193	First-Year Seminar: (SS)	3
AIS 203	Western Great Lakes American Indian Community Life of the Past (SS/CD)	3
AIS/HIST 262	North American Indian History to 1887 (SS/CD)	3
AIS/HIST 263	North American Indian History Since 1887 (SS/CD)	3
AIS 271	Third-Semester Indigenous Languages of Wisconsin: (CD)	3
AIS/ENGLISH 276	Introduction to American Indian Literature: (HU/CD)	3
AIS/SOCIOL 321	Contemporary Issues of the American Indian (SS/CD)	3
AIS/ENGLISH 372	Survey of American Indian Literature (HU/CD)	3
AIS/HIST 473	History of Wisconsin Indians (CD)	3
AIS/HIST 474	Topics in North American Indian History: (CD)	3
AIS/HIST 475	American Indian History, Law, and Government (CD)	3
AIS/ENGLISH 520	Studies in American Indian Literature:	3
ANTHRO 150	Multicultural America (SS/CD) (if not selected above)	3
ANTHRO 193	First-Year Seminar: (SS) Approved topics include Museums: Gateways to Modern Life; Oral Traditions; or Museums for Educators)	3
ANTHRO 213	American Indian Peoples of Wisconsin (SS/CD)	3
ARABIC 164	Arabs and Islam in America (HU)	3
ART ED 130	Multicultural Art and Visual Learning in Elementary Education (A/CD)	3
COMMUN 350	Intercultural Communication (SS/CD)	3
ECON 248	Economics of Discrimination (SS/CD)	3
ED POL 113	The Milwaukee Community (SS)	3
ED POL 212	Educational Issues in Spanish Speaking Communities (HU/CD)	3
ED POL 460	The Chicano Experience (HU/CD)	3
ED POL 560	Education and Hispanics (SS/CD)	3
ED POL 621	History of Native Education and Policy Development (CD)	3
ED POL 625	Race Relations in Education (CD)	3
ENGLISH 150	Multicultural America (HU/CD) (if not selected above)	3
ENGLISH 192	First-Year Seminar: (HU)	3
	Topic: African American Folklore in Literature	
	Topic: Hmong American Life Stories (HU/CD)	
	Topic: Southeast Asian American Literature and Life	
	Topic: Images of American Indians (HU/CD)	
	Topic: Images of American Indians in Art, Film, and Literature	
	Topic: Asian American Life Stories	
	Topic: Asian American Literature (HU/CD)	
	Topic: Representations of the American Dream	
	Topic: Multicultural America (no credit for students with credit in English 150)	
	Topic: Multicultural Milwaukee (HU/CD)	
ENGLISH 243	Introduction to Literature by Women: (HU) Approved topics include Fiction by Women of Color or Women, Race, and Class)	3
ENGLISH 248	Literature and Contemporary Life: (HU)	3
	Topic: Introduction to LGBT Studies	
	Topic: Growing up Gay	
	Topic: Katrina in Context	
	Topic: Queer Theory and the Novel	
ENGLISH 263	Introduction to the Novel: (HU) (Queer Modernism)	3
ENGLISH/AIS 276	Introduction to American Indian Literature: (HU/CD)	3
ENGLISH 277	Introduction to Ethnic Minority Literature: (HU/CD)	3
ENGLISH/LATINX 279	Introduction to U.S. Latino/a Literature: (HU/CD)	3

ENGLISH 280	Introduction to Asian-American Literature: (HU/CD)	3	Topic: The Civil Rights Movement in Milwaukee (SS/CD)		
ENGLISH 281	Introduction to African-American Literature: (HU/CD)	3	Topic: U.S.-Mexico Borderlands		
ENGLISH/AIS 372	Survey of American Indian Literature (HU/CD)	3	HIST 229	History of Race, Science, and Medicine in the United States (HU/CD) (if not selected in Area V)	3
ENGLISH 373	Survey of Ethnic Minority Literature (HU/CD) (Topic: Z. N. Hurston, A. Walker, T. Morrison, G. Naylor)	3	HIST 243	History of Women in American Society (HU)	3
ENGLISH/LATINX 374	Survey of U.S. Latino/a Literature (CD)	3	HIST/AIS 262	North American Indian History to 1887 (SS/CD)	3
ENGLISH 375	Survey of Asian American Literature (CD)	3	HIST/AIS 263	North American Indian History Since 1887 (SS/CD)	3
ENGLISH 376	Survey of African-American Literature to 1930 (CD)	3	HIST/LATINX 267	The History of Latinos in the United States (HU/CD)	3
ENGLISH 377	Survey of African-American Literature, 1930 to the Present (CD)	3	HIST 269	Asian Americans in Historical Perspective (HU/CD)	3
ENGLISH 463	Writers in African-American Literature: (CD)	3	HIST 270	Topics in American History: (Topic: Mixed Race Identity in American Culture (HU/CD)	3
ENGLISH 517	Studies in African-American Literature: (CD)	3	HIST 271	The 1960s in the United States: A Cultural History (HU)	3
ENGLISH/AIS 520	Studies in American Indian Literature: (CD)	3	HIST 398	Honors Seminar: (American Mixed Race)	3
ENGLISH/LATINX 523	Studies in U.S. Latino/a Literature: (CD)	3	HIST 436	Immigrant America Since 1880 (HU/CD)	3
ENGLISH 524	Studies in Asian-American Literature: (CD)	3	HIST 445	African Americans from Slavery to Freedom (CD)	3
ENGLISH 685	Honors Seminar: (HU)	3	HIST 446	African Americans Since the Civil War (CD)	3
	Topic: Chinese American Women Writers (HU/CD)		HIST/AIS 473	History of Wisconsin Indians (HU/CD)	3
	Topic: Asian American Women Writers (HU/CD)		HIST/AIS 474	Topics in North American Indian History: (CD)	3
	Topic: Spirituality and Identity in Modern America (HU)		HIST/AIS 475	American Indian History, Law, and Government (CD)	3
	Topic: African Fiction		HMONG/ETHNIC 265	Hmong Americans: History, Culture, and Contemporary Life (SS/CD)	3
ETHNIC 101	The Multi-Racial Origins of American Cultures (HU/CD)	3	HONORS 200	Honors Seminar: The Shaping of the Modern Mind:	3
ETHNIC 102	Transnational Migrations: People on the Move (HU/CD)	3		Topic: Americans in the Making: Immigrant Life in the Late 20th Century (HU/OWC-B)	
ETHNIC 200	Racial Minorities in the United States (SS/CD)	3		Topic: Beyond the Border: Making Mexican America	
ETHNIC 250	Selected Topics in Ethnic Studies: (SS) (Topic: Blacks, Jews, and Black Jews)	3	HONORS 350	Honors Seminar in the Humanities: (HU) (Civil Rights and the Freedom Struggle)	3
ETHNIC/HMONG 265	Hmong Americans: History, Culture, and Contemporary Life (SS/CD)	3	ITALIAN 242	Topics in Italian American Studies: (HU)	3
ETHNIC/LGBT 275	Queer Migrations (HU/CD)	3	JEWISH 101	Jewish Culture in America: History, Literature, Film (HU)	3
ETHNIC 325	Gender, Race, and Ethnicity in Milwaukee: (HU/CD)	3	JAMS 111	Gender and the Media (HU)	3
EXCEDUC 330	Deaf History (SS)	3	LACUSL 200	Special Topics in Latin American, Caribbean, and U.S. Latinx Studies: (Chican@/Latin@ Art and Culture: Politics and Resistance)	3
EXCEDUC 352	American Deaf Culture (SS)	3	LACUSL 201	Latin American, Caribbean, and U.S. Latinx Arts and Culture: (HU) (Chican@/Latin@ Art and Culture: Politics and Resistance)	3
FILMSTD 212	Intermediate Topics in Film and Television Studies: (HU)	3	LATINX 101	Introduction to Latino Studies (SS/CD)	3
	Topic: African American Cinema				
	Topic: LGBT-TV: Television and Sexuality				
GEOG 114	Geography of Race in the United States (SS/CD)	3			
HIST 150	Multicultural America (HU/CD) (if not selected above)	3			
HIST 200	Historical Roots of Contemporary Issues: (SS)	3			
	Topic: The Civil Rights Movement in America (SS/CD)				

LATINX/HIST 267	The History of Latinos in the United States (HU/CD)	3
LATINX/ENGLISH 279	Introduction to U.S. Latino/a Literature: (HU/CD)	3
LATINX/ENGLISH 374	Survey of U.S. Latino/a Literature (CD)	3
LATINX/ENGLISH 523	Studies in U.S. Latino/a Literature: (CD)	3
L&S NS 295	Seminar in the Natural Sciences: (NS) (if not selected in Area V)	1-3
Topic: Green Science and Urban Space		
LGBT 200	Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (HU)	3
LGBT/ETHNIC 275	Queer Migrations (HU/CD)	3
POL SCI 150	Multicultural America: Minority Voting Rights and Representation (CD) (if not selected above)	3
POL SCI 215	Ethnicity, Religion and Race in American Politics (SS/CD)	3
PSYCH 230	Social Psychology: Psychological Perspectives (SS)	3
PSYCH 319	LGBTIQ Psychology (SS)	3
PSYCH 320	Psychology of Gender	3
RELIGST 350	Advanced Topics in Religious Studies: (Religion in Daily Life – Food, Drink, and Clothing)	3
SOC WRK 300	Aged to Perfection: Introduction to the Study of Aging (OWCB/SS)	3
SOC WRK 665	Cultural Diversity and Social Work (SS/CD)	3
SOCIOL 224	Race and Ethnicity in the United States (SS/CD)	3
SOCIOL 233	Social Inequality in the United States (SS)	3
SOCIOL 250	Sex and Gender (SS)	3
SOCIOL/AIS 321	Contemporary Issues of the American Indian (SS/CD)	3
SOCIOL 323	Perspectives on Latino Communities (SS/CD)	3
SPANISH 371	Introduction to Latino Literature in English (HU/CD)	3
THERREC 202	Disability: Society and the Person (SS)	3
URBPLAN 140	Issues in Contemporary Urban Planning (SS)	3
URBPLAN 350	Social Justice, Urban Planning and the New Multicultural America (CD)	3
URB STD 150	Multicultural America (SS/CD) (if not selected above)	3
WGS 150	Multicultural America (SS/CD) (if not selected above)	3
WGS 192	First-Year Seminar: (HU)	3
Topic: Gender in American Consumer Culture		
Topic: Drawing Women's Lives: The Graphic Memoir		
WGS 200	Introduction to Women's and Gender Studies: A Social Science Perspective (SS)	3

WGS 201	Introduction to Women's and Gender Studies: A Humanities Perspective (HU)	3
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### Area III. Global Perspectives on Culture and Community

Code	Title	Credits
AFRIC 205	The Poetry of African, African-American, and Caribbean Writers (HU/CD) (if not selected in Area II)	3
AFRIC 215	Introduction to Black Social and Cultural Traditions	3
AFRIC 232	Survey of African Societies and Cultures (SS)	3
AFRIC 235	African Americans and South Africa (HU)	3
AFRIC 334	Survey of Black American and Black Brazilian Societies (SS)	3
AMLLC 216	Survey of Civilization: (HU) (Topic: Language, Culture, and Politeness)	3
ANTHRO 102	Introduction to Anthropology: Culture and Society (SS)	3
ANTHRO 104	Lifeways in Different Cultures: A Survey of World Societies (SS)	3
ANTHRO 250	Women's Roles in Cross-Cultural Perspective (SS)	3
ANTHRO 355	Globalization, Culture, and Environment (SS)	3
ARABIC 111	Cultures and Civilizations of the Muslim Middle East (HU)	3
ARTHIST 104	African, New World and Oceanic Art and Architecture (HU)	3
ARTHIST 105	Asian Art and Architecture (HU)	3
CELTIC 133	Celtic Crossings: Overview of the History and Cultures of the Celtic World (HU)	3
COMPLIT 133	Contemporary Imagination in Literature and the Arts (HU)	3
COMPLIT 135	Experiencing Literature in the 21st Century: (HU)	3
Topic: Magical Realism and the Fantastic in Literature and Film		
Topic: Youth Culture in the Middle East Through Literature, Art, and Film		
COMPLIT 207	Global Literature from Antiquity to the 1600s: (HU)	3
COMPLIT 208	Global Literature from the 17th Century to the Present: (HU)	3
COMPLIT 230	Literature and Society: (HU)	3
Topic: Gender and Utopia		
Topic: "New World" Literature		
Topic: Women and Sexuality		
Topic: Nazi Germany: Victims, Perpetrators, and Bystanders		
Topic: The Holocaust		
COMPLIT 231	Literature and Religion: (HU)	3
Topic: Holocaust and the Arts: Literature and Music		
Topic: Holocaust: Children and War		
Topic: Holocaust in Literature and Film		

Topic: Holocaust in Poland			
Topic: Nazis in Western Europe			
Topic: The Quran as Literature			
COMPLIT 232	Literature and Politics: (HU)	3	
Topic: Contemporary Women Writers and the Ethics of Violence			
Topic: Gender and the Historical Novel			
Topic: The Representation of Revolution			
Topic: Women and War in Latin America and the Caribbean			
COMPLIT 233	Literature and Film: (HU) (Topic: The Literature and Film of Globalization)	3	
COMPLIT 309	Great Works of Modern Literature: (HU) (Topic: Cultural Identity and the Postcolonial Text)	3	
CRM JST 410	Comparative Criminal Justice (SS)	3	
ECON 193	First-Year Seminar: (SS) (Topic: Growth and Development of China, Japan, and Korea)	3	
ENGLISH 243	Introduction to Literature by Women: (HU) (Topic: Literature About Women of East and Southeast Asia)	3	
ENGLISH 278	Introduction to World Literatures Written in English: (HU) (Topic: Literature from the Middle East)	3	
ENGLISH 685	Honors Seminar: (HU) (Topic: African Fiction)	3	
GEOG 110	The World: Peoples and Regions (SS) (if not selected in Area V)	3	
GEOG 115	Globalization and Economic Development (SS)	3	
GEOG 213	Geography of Asia (SS) (if not selected in Area V)	3	
GEOG 333	Muslim Geographies: Identities and Politics	3	
GLOBAL 101	Introduction to Global Studies I: People and Politics (SS)	3	
GLOBAL 202	Introduction to Global Studies III: Globalization and Technology (SS)	3	
HIST 175	East Asian Civilization to 1600 (HU)	3	
HIST 176	East Asian Civilization Since 1600 (HU)	3	
HIST 180	Latin American Society and Culture (SS)	3	
HIST 192	First-Year Seminar: (HU)	3	
Topic: Global Religions: Diversity and Dialogue			
Topic: History and Globalization			
HIST 193	First-Year Seminar: (SS) (Topic: History and Globalization)	3	
HIST 200	Historical Roots of Contemporary Issues: (SS)	3	
Topic: Latin America and Globalization			
Topic: The African Diaspora			
HIST 210	The Twentieth Century: A Global History (SS)	3	
HIST 280	Islamic Civilization: The Formative Period, ca. 500-1258 (HU)	3	
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries (HU)	3	
HIST 284	Buddhism Across Asia (HU)	3	
HIST 287	The Vietnam War (SS)	3	
HIST 379	Introduction to Jewish History (HU)	3	
HIST 398	Honors Seminar: (Topic: History, Memory, and Reconciliation in East Asia (HU)	3	
ITALIAN 357	Topics in Italian Culture in Translation:	3	
JEWISH 247	Topics in Jewish Literature, Art, and Culture: (HU) (Topic: Anti-Semitism from Biblical Times to the Present)	3	
JEWISH 261	Representing the Holocaust in Words and Images (HU)	3	
JEWISH 368	Jewish and Christian Responses to the Holocaust (HU)	3	
JEWISH 379	Introduction to Jewish History (HU)	3	
LACS 101	Introduction to Latin American and Caribbean Studies (HU)	3	
LACUSL/THEATRE 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	3	
PHILOS 204	Introduction to Asian Religions (HU)	3	
POL SCI 106	Politics of the World's Nations (SS)	3	
POL SCI 175	Introduction to International Relations (SS)	3	
POL SCI 371	Nationalism and Ethnic Conflict (SS)	3	
Topic: History of Brazil			
Topic: Samba to Punk: Luso-Brazilian Music and Citizenship			
PORTUGS 225	Understanding Brazil: (HU)	3	
Topic: African Presence in Brazilian Culture and Literature			
Topic: Race, Class, and Gender			
PORTUGS 360	Luso-Brazilian Culture: (HU)	3	
Topic: Brazilian Music			
Topic: Brazilian Culture Through Film			
Topic: Music of Brazil and Portuguese-Speaking Countries			
RELIGST 101	Introduction to World Religions (HU)	3	
RUSSIAN 192	First-Year Seminar: (HU) (Topic: Russia Today)	3	
SCNDVST 192	First-Year Seminar: (HU) (Topic: Trolls, Gnomes, and Goblins: Scandinavian Myth and Legend)	3	
SOCIOL 103	World Society (SS)	3	
SOCIOL 235	Social Change in the Global Economy (SS)	3	
SPANISH 225	Understanding the Hispanic World: (subtitle) (HU)	3	
SPANISH 391	Social and Historical Issues in the Hispanic World: (subtitle) (HU)	3	
THEATRE/LACUSL 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	3	



### Area IV. Art, Culture, and Community

Code	Title	Credits
ART 100	American Art and Culture (A/CD) (LEC with CC content only)	3
ART 105	Art & Design Lecture Series (A)	3
ART 106	Art Survey: Creative Practice, Culture and Context (A)	3
ART 150	Multicultural America (A/CD) (if not selected above)	3
ART ED 130	Multicultural Art and Visual Learning in Elementary Education (A/CD)	3
DANCE 122	African Dance & Diaspora Technique I (A/CD)	2-3
DANCE 313	History of Dance in the African Diaspora (A/CD)	3
DANCE 320	Rituals and Culture (A)	2-3
DANCE 360	Movement and Learning (A)	3
DANCE 370	World Movement Traditions: (A)	2-3
Topic: Dances of the World		
Topic: Hip Hop 1/2/3		
Topic: Salsa/Merengue, Tai-Chi, Capoeira: Afro Brazilian Dance		
Topic: Capoeira: Afro Brazilian Dance		
FILM 150	Multicultural America (A/CD) (if not selected above)	3
MUSIC 102	American Popular Music (A)	3
MUSIC 280	Special Studies in Music: (Topic: Music in American Culture (A/CD)	1-3
MUSIC 309	American Folk and Popular Music (A)	2
MUSIC 310	Introduction to World Musics (A)	3
THEATRE 204	Theatre and Social Change (A)	3
THEATRE 260	Storytelling: (A)	3
Topic: Elder Tales		
Topic: Milwaukee - Stories from Our Own Backyard		
Topic: Stories and the Cultural Voice		
Topic: Toby to Tupac - Stories and Songs in Popular Culture		
Topic: Discovering Your Personal Story		

### Area V. Science, Culture, and Society

Code	Title	Credits
AIS 105	Anishinaabe Ethnobotany: Plants in Anishinaabe Culture (CD; if not selected in Area II)	3
AIS 106	Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy (CD; if not selected in Area II)	3
BIO SCI 103	Topics in Modern Biology: (NS)	3
Topic: Biology Through Art (NS)		
Topic: Discovering DNA: Our Society and Health (NS)		
BIO SCI 194	First-Year Seminar: (NS) (Topic: Forbidden Knowledge: Science and Censorship)	3
BIO SCI 206	Biology of Women (NS)	3
CHEM 381	Honors Seminar: (NS) (Topic: Sustainable Earth: Environmental and Societal Development)	3

CES 210	Introduction to Conservation and Environmental Science	3
GEOG 110	The World: Peoples and Regions (SS) (if not selected in Area III)	3
GEOG 125	Introduction to Environmental Geography (NS)	3
GEOG 140	Our Urban Environment: Introduction to Urban Geography (SS)	3
GEOG 213	Geography of Asia (SS) (if not selected in Area III)	3
GEOG 350	Conservation of Natural Resources (SS)	3
Course offered by the College of Health Sciences; also available as BMS, ComSDis, HCA, Kin, OccThpy, and TherRec		
HIST 229	History of Race, Science, and Medicine in the United States (HU/CD) (if not selected in Area II)	3
L&S NS 295	Seminar in the Natural Sciences: (NS) (if not selected in Area II)	1-3
Topic: Seminar on Green Science and Urban Spaces		
NURS 101	Cultural Diversity in Health Care (SS/CD)	3
NURS 380	Honors Seminar: (SS) (Topic: Negotiating Differences: Race and Culture in Contemporary Healthcare)	3
PHILOS 244	Ethical Issues in Health Care: (subtitle) (HU)	3
PHYSICS 194	First-Year Seminar: (NS) (Topic: Physics, Science, and Technology in Our Society: Friend or Foe?)	3

## Data Analytics, BS (College of Letters and Science)

There is data all around us. Businesses are looking to hire people who can manage that data, analyze it, and use it for more effective decision making. The Bachelor of Science in Data Analytics (BSDA) is designed for you to learn those skills.

The Bachelor of Science in Data Analytics is a special degree program that includes courses from the College of Letters & Science, the College of Community Engagement & Professions, the Lubar College of Business, and the College of Engineering & Applied Science to provide a solid general education as well as an interdisciplinary approach to data analytics.

The BS in Data Analytics at UWM is unique because its goal is to train students to practice data analytics in a field they are most passionate about. If you enroll in this program, you will take foundational classes to build core data analytics skills, then specialize in data analytics for business, health, information science, natural sciences, social sciences, or geographic information sciences.

The career prospects for individuals with data analytics degrees are very positive. Data analytics skills are being used not only in industries that are obviously oriented toward using data, like information technology, sciences and business, but also in fields that more recently have begun to take full advantage of their data resources, like agriculture, atmospheric sciences, environmental sciences, geography, and healthcare.

## Requirements

The B.S. in Data Analytics requires 33 credits in General Education courses, 16 credits in Foundation courses, 33 credits in Core courses, 24 credits in a Specialization, and electives to reach a total of 120 credits.

### General Education Competency and Breadth Courses (p. 30)

Code	Title	Credits
<b>Oral and Written Communication Part A</b>		
Grade of C or better in ENGLISH 102 or equivalent		3
<b>Oral and Written Communication Part B</b>		
ENGLISH 205	Business Writing	3
<b>Quantitative Literacy Part A</b>		
Grade of C or better in one of the following:		3
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
Equivalent course		
<b>Quantitative Literacy Part B</b>		
Choose one of the following:		3
MATH 208	Quantitative Models for Business	
MATH 211	Survey in Calculus and Analytic Geometry I	
MATH 213	Calculus with Life Sciences Applications	
MATH 221	Honors Calculus I	
MATH 231	Calculus and Analytic Geometry I	
<b>Breadth Courses</b>		
Arts GER course		3
Cultural Diversity GER course		3
Humanities GER courses		6
Natural Science GER courses (including one lab or field experience)		6
Social Science GER courses		6
Language other than English (two semesters or equivalent)		0-10
<b>Total Credits</b>		<b>36</b>

### Foundation Courses

Code	Title	Credits
<b>Mathematics</b>		
MATH 240	Matrices and Applications	
MATH 212	Survey in Calculus and Analytic Geometry II (4 credits)	
<i>Choose one of the following (3 credits)</i>		
BUS ADM 210	Statistical Modeling in Business Analytics	
BUS ADM 211	Business Scholars: Statistical Modeling in Business Analytics	
ECON 210	Economic Statistics	
MTHSTAT 215	Elementary Statistical Analysis	
<b>Computer Literacy 1</b> <sup>1</sup>		<b>3</b>
<i>Choose one of the following (3 credits)</i>		
BUS ADM 230	Introduction to Information Technology Management	

HS 224	Computational Tools for Healthcare Professionals	
COMPSCI 150	Survey of Computer Science	
<b>Computer Literacy 2</b> <sup>1</sup>		<b>3</b>
<i>Choose one of the following (3 credits)</i>		
COMPSCI 202	Introductory Programming Using Python	
COMPSCI 240	Introduction to Engineering Programming	
COMPSCI 250	Introductory Computer Programming	
INFOST 350	Introduction to Application Development	
<b>Total Credits</b>		<b>16</b>

<sup>1</sup> Computer Literacy 1 and 2 can be satisfied by COMPSCI 250 and COMPSCI 251.

### Core Courses

Code	Title	Credits
<b>Programming Languages</b>		
<i>Choose two of the following (6 credits)</i>		<b>6</b>
BUS ADM 335	Introduction to Business Application Development	
BUS ADM 432	Object-Oriented Systems Development	
INFOST 350	Introduction to Application Development (Cannot be used in this category if it was used to satisfy the 'Computer Literacy 2' requirement)	
INFOST 440	Web Application Development	
BIO SCI 502	Introduction to Programming and Modeling in Ecology and Evolution	
COMPSCI 351	Data Structures and Algorithms	
MTHSTAT 216	Introduction to Statistical Computing and Data Science	
<b>Databases</b>		<b>3</b>
<i>Choose one of the following (3 credits)</i>		
BUS ADM 434	Data Base Management Systems	
INFOST 410	Database Information Retrieval Systems	
HI 537	Health Information Technology and Management	
COMPSCI 557	Introduction to Database Systems	
<b>Analytics and Big Data/Data Mining</b>		<b>6</b>
<i>Choose two of the following (6 credits)</i>		
BUS ADM 336	Enterprise Systems and Data Analytics	
BUS ADM 536	Business Intelligence	
INFOST 582	Introduction to Data Science	
INFOST 687	Data Analysis for Data Science	
INFOST 691	Special Topics in Information Science: ('Computer Forensics' is eligible. Other topics offered in a specific offering of this course must be approved for the degree by the Director of the Program.)	
ATM SCI 600	Data Analytics	
COMPSCI 411	Machine Learning and Applications	

COMPSCI 422	Introduction to Artificial Intelligence
COMPSCI 425	Introduction to Data Mining
ECON 411	Economic Forecasting Methods
GEOG 215	Introduction to Geographic Information Science
GEOG 525	Geographic Information Science (4 credits)
<b>Visualization</b>	<b>3</b>
<i>Choose one of the following (3 credits)</i>	
BUS ADM 438	Information Technology Management Topics:
INFOST 370	Data Analysis and Visualization for the Information Professional
GEOG 405	Cartography (4 credits)
<b>Statistics</b>	<b>6</b>
<i>Choose two of the following (6 credits)</i>	
MTHSTAT 361	Introduction to Mathematical Statistics I
MTHSTAT 362	Introduction to Mathematical Statistics II
ATM SCI 500	Statistical Methods in Atmospheric Sciences
ECON 413	Statistics for Economists
ECON 513	Introduction to Econometrics
<b>Communication</b>	<b>3</b>
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century
<b>Ethics</b>	<b>3</b>
<i>Choose one of the following (3 credits)</i>	
BUS ADM 530	Privacy and Information Security for Business
INFOST 661	Information Ethics
HS 311	Law and Ethics for Healthcare Professionals
COMPSCI 395	Social, Professional, and Ethical Issues
PHILOS 237	Technology, Values, and Society
SOCIOL 327	Data, Technology, and Society
<b>Capstone/Fieldwork/Thesis</b>	<b>3</b>
<i>Choose one of the following (3 credits)</i>	
BUS ADM 389	Real Estate Internship
BUS ADM 394	Human Resources Management Internship
BUS ADM 396	Finance Internship
BUS ADM 397	Marketing Internship
BUS ADM 398	Supply Chain & Operations Management Internship
BUS ADM 400	Accounting Professional Internship
BUS ADM 439	Information Technology Management Professional Internship
BUS ADM 459	Finance Professional Internship
BUS ADM 469	Marketing Professional Internship
BUS ADM 479	Supply Chain & Operations Management Professional Internship
BUS ADM 494	International Business Internship

BUS ADM 534	Information Technology Practicum
BUS ADM 600	Management Analysis
INFOST 408	Nonprofit Information Technology
INFOST 490	Senior Capstone
INFOST 495	Information Internship
COMPSCI 595	Capstone Project
ECON 489	Internship in Economics, Upper Division
MTHSTAT 489	Internship in Mathematical Statistics, Upper Division
MATH 599	Capstone Experience (1 credit)
GEOG 600	Perspectives on Geography
GEOG 698	GIS/Cartography Internship

**Total Credits 33**

**Electives in Different Specializations (24 credits in each specialization)**

Code	Title	Credits
<b>Business</b>		<b>24</b>
Select any 24 credits; Sub-specializations are listed so students may focus their coursework.		
BUS ADM 532	Web Development for Open Business Systems	
BUS ADM 533	Introduction to Connected Systems for Business	
BUS ADM 536	Business Intelligence	
BUS ADM 537	Enterprise Systems Concepts and Issues	
BUS ADM 539	Web Application Server Development	
BUS ADM 540	ERP Certification	
<i>Supply Chain</i>		
BUS ADM 370	Introduction to Supply Chain Management	
BUS ADM 436	Systems Analysis and Design	
BUS ADM 478	Supply Chain Analytics	
BUS ADM 571	Quality and Six Sigma Tools	
<i>Marketing</i>		
BUS ADM 360	Principles of Marketing	
BUS ADM 462	Marketing Research	
<i>Finance</i>		
BUS ADM 350	Principles of Finance	
BUS ADM 450	Intermediate Finance	
BUS ADM 451	Investment Finance	
BUS ADM 457	Financial Modeling	
BUS ADM 458	Venture Finance	
<i>Recommended<sup>2</sup></i>		
BUS ADM 300	Career and Professional Development (1 credit)	
<b>Information Science and Technology</b>		<b>24</b>
INFOST 240	Web Design I	
INFOST 315	Knowledge Organization for Information Science and Technology	
INFOST 320	Web Design II	
INFOST 325	Information Security I	

INFOST 340	Introduction to Systems Analysis
INFOST 350	Introduction to Application Development (If not used already as part of the Foundations requirement)
INFOST 375	Multimedia Web Design
INFOST 383	Native Mobile Applications
INFOST 430	Multimedia Application Development
INFOST 465	Legal Aspects of Information Products and Services
INFOST 491	Advanced Topics in Information Science & Technology: <sup>3</sup>
INFOST 583	Survey of Information Security
INFOST 584	Survey of Web and Mobile Content Development
INFOST 695	Ethical Hacking I
INFOST 691	Special Topics in Information Science: <sup>3</sup>
<b>Health</b>	<b>24</b>
<i>This specialization will require 3-6 credits from a different specialization as approved by the Program Director.</i>	
HCA 307	Epidemiology for the Health Sciences
HCA 444	Introduction to Text Retrieval and Its Applications in Biomedicine
HCA 541	Healthcare Information Systems Analysis and Design
HCA 542	Healthcare Database Design and Management
PH 355	Public Health Research Methods I
PH 410	True Lies: Consuming and Communicating Quantitative Information
PH 455	Public Health Research Methods II
<i>Recommend one of the following: <sup>2</sup></i>	
HS 222	Language of Medicine
BMS 205	Introduction to Diagnostic Medicine
NURS 352	Health and Illness Concepts 1: Introduction
<b>Natural Sciences</b>	<b>24</b>
BIO SCI 469	Genomic Data Analysis (2 credits)
FRSHWTR 504	Quantitative Freshwater Analysis
FRSHWTR 514	Analytical Techniques in Freshwater Sciences
FRSHWTR 640	Sequence Analysis
MTHSTAT 563	Regression Analysis
MTHSTAT 564	Time Series Analysis
MTHSTAT 568	Multivariate Statistical Analysis
MATH 583	Introduction to Probability Models
ACTSCI 391	Investment Mathematics I (4 credits)
ACTSCI 591	Investment Mathematics II
ACTSCI 593	Actuarial Models I
ACTSCI 594	Actuarial Models II
ACTSCI 596	Actuarial Statistics I
ACTSCI 597	Actuarial Statistics II
<b>Social Sciences</b>	<b>24</b>
<i>Choose at most one of the following methods courses:</i>	

CRM JST 662	Methods of Social Welfare Research
POL SCI 203	Introduction to Political Science Research
PSYCH 325	Research Methods in Psychology (4 credits)
AFRIC 301	Research Methods in African & African Diaspora Studies
SOCIOL 361	Research Methods in Sociology
<i>Choose at most one of the following multiple regression courses</i>	
ECON 310	Research Methods for Economics
PSYCH 610	Experimental Design
SOCIOL 461	Social Data Analysis Using Regression
<i>And, take courses from the list below to complete 24 credits.</i>	
CRM JST 510	Introduction to Crime Analysis
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS
GEOG 215	Introduction to Geographic Information Science
GEOG 525	Geographic Information Science (4 credits)
GEOG 547	Spatial Analysis (4 credits)
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 510	Advanced Psychological Statistics
SOCIOL 352	Social Networks
<b>Geographic Information Science</b>	<b>24</b>
GEOG 403	Remote Sensing: Environmental and Land Use Analysis (4 credits)
GEOG 437	Qualitative Methods in Geography
GEOG 547	Spatial Analysis (4 credits)
GEOG 515	Watershed Analysis and Modeling
GEOG 625	Intermediate Geographic Information Science (4 credits)
URBPLAN 591	Introduction to Urban Geographic Information Systems (GIS) in Planning
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS

<sup>2</sup> Recommended courses do not count toward the specialization unless approved by the Director. They are merely recommended additional courses.

<sup>3</sup> Specific topics courses need to be approved for the degree by the Program Director. A topic course cannot be used again if applied to a prior degree requirement category.

## General Electives

With the help of their academic advisor, students will select electives to complete the 120 total credits required for the degree. Electives are tailored to each student's interests and career goals.

## Second Degree

A student wishing to complete a second degree in BSDA will need to complete all 33 credits of the Core Courses. They must complete the Foundations courses to be eligible for this degree. They are not required

to complete the Electives with specialization, as their first major may fulfill that role in the degree.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Digital Arts and Culture

The Digital Arts and Culture (DAC) area is interdisciplinary, combining courses in the areas of arts, humanities, social sciences, and information studies. The undergraduate program offers two learning tracks, a certificate and an multi-disciplinary major.

## Programs

- Digital Arts and Culture, BA (p. 989)
- Digital Arts and Culture, Undergraduate Certificate (p. 994)

## Digital Arts and Culture, BA

The Digital Arts and Culture program is designed to give students a comprehensive understanding of the intersection of digital technologies, culture, and creativity. You will study and explore a variety of emerging media and systems and have exciting practical opportunities with these tools to make, analyze, and share creative works and cultural products.

Our program is student-centered, meaning that you will have the freedom to pursue your interests and tailor your coursework to meet your individual goals. Whether you want to specialize in digital storytelling, games, design, social media, or web development, our faculty, staff, and advisors will work with you to create a personalized plan of study that reflects your passion and ambition.

At the heart of the Digital Arts and Culture program is a commitment to collaboration and community-building. Throughout your academic career, you will have the chance to work with other students, faculty, and community partners on various projects to cultivate creative practices, technological skills, and a supportive network. Our program is interdisciplinary and interactive, with plenty of opportunities for hands-on learning, experimentation, and inquiry within emerging fields.

Upon completing the program, you will be well-prepared to pursue career paths within the creative industries, such as advertising, design, information technology, publishing, and entertainment, and in cultural institutions, like museums, galleries, libraries, and archives. Our graduates have gone on to work as multimedia and digital marketing specialists, editors and producers for broadcast media, graphic designers and creative directors, and more. Additionally, our program sets you up with a strong foundation for graduate programs in digital media, communication studies, rhetoric and culture, and related fields.

If you are enthusiastic about the creative potential of digital technologies and networks, and the critical ways that they shape society, the Digital

Arts and Culture may be the perfect fit for you. Come join us and explore the countless possibilities of our digital futures!

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6

### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College

requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Digital Arts and Culture Degree Requirements

You are strongly advised to consult both the DAC advisor and your L&S advisor to ensure you stay on track towards a degree. A total of 36 credits is required for the major, of which at least 15 upper-level L&S credits must be completed in residence at UWM. No more than 21 credits from a single curricular area may count toward the submajor. Students must earn a 2.0 GPA on all UWM credits that count toward the major. In addition, the College requires that students earn a minimum 2.0 GPA on all transfer work, counting towards the major.

Code	Title	Credits
<b>Core Culture Courses</b>		
ART 118	Digital Arts: Culture, Theory, Practice	3
JAMS/DAC 113	Internet Culture	3
<b>Media Systems Courses</b>		
Select one of the following:		3
ARTHIST/ENGLISH/ FILMSTD 111	Entertainment Arts: Film, Television, and the Internet <sup>1</sup>	
INFOST 110	Introduction to Information Science and Technology	
JAMS 101	Introduction to Mass Media	
<b>Digital Composition Courses</b>		
Select two of the following:		6
ART 212	Creative Technologies	
ART 218	Moving Images and Sound in Art & Design	
ART 221	Introduction to Design	
ENGLISH 206	Technical Writing	
ENGLISH 240	Rhetoric, Writing, and Culture:	
INFOST 240	Web Design I	
JAMS 201	Media Writing	
JAMS 231	Publication Design	
FILM 255	Introduction to Digital Arts	
<b>Understanding Digital Culture Courses</b>		
Select one of the following:		3
ART 309	Issues in Contemporary Art:	
COMMUN 313	Human Communication and Technology	
ENGLISH/FILMSTD 380	Media and Society:	

INFOST 310	Human Factors in Information Seeking and Use	
JAMS 461	Media Ethics	
<b>Practicing the Digital Arts Courses</b>		
Select one of the following:		3
ART 324	Web Design	
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	
INFOST 350	Introduction to Application Development	
INFOST/ART/DAC 408	Nonprofit Information Technology (application required before open enrollment)	
JAMS/DAC 336	Media Graphics	
<b>Capstone Seminar</b>		
DAC 661	Digital Engagement Seminar (only offered in Spring semesters)	3
<b>Electives</b>		
Select at least 6 credits from the Understanding Digital Culture Expanded Electives and 3 credits from the Practicing Digital Arts Expanded Electives. The remaining 3 credits can come from either group. At least one course from each group should be numbered 300 or above.		12
<b>Understanding Digital Culture Expanded Electives</b>		
ANTHRO/DAC 140	Games and Society	
ANTHRO 302	Anthropology and Popular Culture	
ANTHRO 340	Cultures of Online Games and Virtual Worlds	
ART 150	Multicultural America	
ART 309	Issues in Contemporary Art:	
ARTHIST/ENGLISH/ FILMSTD 111	Entertainment Arts: Film, Television, and the Internet (if not selected above)	
ARTHIST 376	History and Theory of New Media Art	
COMMUN 310	Communication in Organizations	
COMMUN 313	Human Communication and Technology (if not selected above)	
COMMUN 350	Intercultural Communication	
COMMUN 360	Entertainment and Politics	
COMMUN 370	Quantitative Research in Communication	
COMMUN 410	Organizational Communication Technology	
COMMUN 413	Rhetoric and the Internet	
COMMUN 440	Contemporary Problems in Freedom of Speech	
COMPLIT 133	Contemporary Imagination in Literature and the Arts	
COMPLIT 135	Experiencing Literature in the 21st Century:	
COMPLIT 233	Literature and Film:	
DAC 199	Independent Study	
DAC 699	Advanced Independent Study	
ENGLISH 253	Science Fiction:	
ENGLISH/FILMSTD 290	Introduction to Film Studies	



ENGLISH/FILMSTD 291	Introduction to Television Studies	ART 221	Introduction to Design (if not selected above)
ENGLISH 294	Game Culture	ART 253	Introduction to Photography
ENGLISH/FILMSTD 312	Topics in Film, Television and Digital Studies:	ART 313	Creative Coding
ENGLISH/FILMSTD 329	Film and Literature	ART 314	Digital Painting
ENGLISH/FILMSTD 380	Media and Society: (if not selected above)	ART 316	Creative Interfaces
ENGLISH/FILMSTD 383	Cinema, Television, and Genre:	ART 317	3D Environments and XR
ENGLISH/FILMSTD 393	Entertainment Industries:	ART 318	Creative Electronics
ENGLISH/FILMSTD 394	Theories of Digital Culture:	ART 324	Web Design (if not selected above)
FILMSTD 212	Intermediate Topics in Film and Television Studies:	ART 325	Web Design II
GLOBAL 202	Introduction to Global Studies III: Globalization and Technology	ART 327	Digital Media Workshop:
GLOBAL 351	Language, Media, and Social Practice in Global Communications	ART 424	Topics in Web, Interaction and Screen Design:
INFOST 110	Introduction to Information Science and Technology (if not selected above)	ART 426	Motion Graphics
INFOST 120	Information Technology Ethics	DAC 289	Internship in Digital Arts and Culture, Lower Division
INFOST 310	Human Factors in Information Seeking and Use (if not selected above)	DAC 489	Internship in Digital Arts and Culture, Upper Division
INFOST 340	Introduction to Systems Analysis	ENGLISH 206	Technical Writing (if not selected above)
INFOST 465	Legal Aspects of Information Products and Services	ENGLISH 214	Writing in the Professions: (if not selected above)
INFOST 491	Advanced Topics in Information Science & Technology:	ENGLISH 240	Rhetoric, Writing, and Culture:
INFOST 674	The Search Engine Society	ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century (if not selected above)
INFOST 675	Information Technology and Organizations	ENGLISH 431	Topics in Advanced Communications:
JAMS 101	Introduction to Mass Media (if not selected above)	ENGLISH 435	Rhetoric and Professional Writing
JAMS 111	Gender and the Media	ENGLISH 436	Technical Documentation
JAMS/DAC 113	Internet Culture (if not selected above)	ENGLISH 437	Project Management for Professional Writers
JAMS 262	Principles of Media Studies	ENGLISH 439	Information Design
JAMS 304	News Literacy	ENGLISH 443	Grant Writing
JAMS 450	Race and Ethnicity in the Media	FILM 107	Digital Filmmaking for Non-Majors
JAMS 460	History of Mass Media	FILM 180	Foundation Production: Fiction
JAMS 461	Media Ethics (if not selected above)	FILM 181	Foundation Production: Nonfiction
JAMS 559	Freedom of Expression in the Digital Age	FILM 255	Introduction to Digital Arts (if not selected above)
JAMS 562	Media Studies and Culture	FILM 301	Film Art for Non-Majors
<b>Practicing the Digital Arts Expanded Electives</b>		FILM 463	Experimental Documentary
ART 108	2D Studio: Concept, Color and Composition	FILM 466	Appropriated Media
ART 118	Digital Arts: Culture, Theory, Practice (if not selected above)	GEOG 215	Introduction to Geographic Information Science
ART 212	Creative Technologies (if not selected above)	GEOG 525	Geographic Information Science
ART 218	Moving Images and Sound in Art & Design (if not selected above)	INFOST 240	Web Design I (if not selected above)
		INFOST 320	Web Design II
		INFOST 350	Introduction to Application Development (if not selected above)
		INFOST 370	Data Analysis and Visualization for the Information Professional
		INFOST 375	Multimedia Web Design
		INFOST/ART/DAC 408	Nonprofit Information Technology (if not selected above)
		INFOST 685	Electronic Publishing and Web Design

JAMS 201	Media Writing (if not selected above)
JAMS 207	Introduction to Advertising and Public Relations
JAMS 231	Publication Design (if not selected above)
JAMS 232	Photojournalism
JAMS 302	Introduction To Video Storytelling
JAMS 325	Audio Storytelling
JAMS 332	Introduction to Digital Documentary
JAMS/DAC 336	Media Graphics (if not selected above)
JAMS 370	Introduction to Social Media and Search Engine Optimization
JAMS 399	On-Campus Internship ( DAC placement)
JAMS 481	Topics in Social Media:
MUSIC 327	Studio Techniques
MUSIC 328	Interactive Electronic Music
MUSIC 680	Special Studies in Music: (Interactivity and Improvisation)
THEATRE 218	Computer Modeling and Graphics for Live Performance
THEATRE 337	Sound Production and Digital Editing for Stage and Studio
THEATRE 437	Sound Design and Digital Editing

**Total Credits** **36**

<sup>1</sup> ARTHIST 111/ENGLISH 111/FILMSTD 111 can be used either to fulfill the Media Systems requirement, or as an elective, but cannot be used to satisfy both.

## Advising

You are strongly advised to consult both the DAC advisor and your L&S advisor to ensure you stay on track towards a degree.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and

- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Digital Arts and Culture, Undergraduate Certificate

The Digital Arts and Culture (DAC) undergraduate certificate is an interdisciplinary degree program, combining courses in the areas of arts, humanities, social sciences, and information studies.

The program aims to empower learning communities by leading students to a variety of opportunities: to develop skills and understanding of new knowledge production and research methods; to operate with confidence as media practitioners and global communicators with a diverse range of

media literacies; and to collaborate and contribute as creative problem solvers using digital media in a networked culture.

Students in the Digital Arts & Culture program will be able to:

- Analyze digital and electronic media systems, explaining what these platforms do and how they do it.
- Engage with complex digital issues: online, offline, via ubiquitous computing hardware and software.
- Organize information, both architecturally and visually, structuring software, websites, advertisements, social media, and more.
- Demonstrate hands-on, collaborative, and cross-disciplinary, media production with artists and designers.

Coursework is drawn from three colleges at UWM: College of the Arts & Architecture (specifically the Peck School of the Arts within the College), College of Letters and Science, and the College of Community Engagement & Professions (specifically the School of Information Studies within that college), with an overarching interest in the study and practice of Arts, Information, and Media.

Five categories of courses define the themes of the program:

- **Core Culture**, introducing students to essential cultural and historical dimensions of Digital Art and network practices.
- **Media Systems**, providing an overview of media industries.
- **Digital Composition**, building on the foundations of the 100-level core culture courses, encompassing courses that set out competencies in composing with concepts and tools of digital media for students to achieve.
- **Understanding Digital Culture**, engaging at the upper levels to analyze more complex systems and issues.
- **Practicing the Digital Arts**, also engaging at the upper levels, as a means of gaining practical experience organizing and collaborating in media production processes.

## Eligibility

The certificate program is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the university as non-degree students, individuals must meet regular university admission requirements. Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements.

## Requirements

To obtain the certificate, students must complete a minimum of 24 credits with a GPA of 2.0 or above; at least 9 of these credits must be at the 300 level or above. At least 12 credits must be in courses from the College of Letters and Science, and at least 6 of the L&S credits must be at the 300 level or above. No more than 15 credits from a single curricular area may apply toward satisfaction of the certificate requirements. The following requirements must be met. All courses are 3 credits unless otherwise noted.

Code	Title	Credits
<b>Core Culture Courses</b>		
Select one of the following:		3
ART 118	Digital Arts: Culture, Theory, Practice	
JAMS 113	Internet Culture	
<b>Media Systems Courses</b>		
Select one of the following:		3
ARTHIST/ENGLISH/ FILMSTD 111	Entertainment Arts: Film, Television, and the Internet	
INFOST 110	Introduction to Information Science and Technology	
JAMS 101	Introduction to Mass Media	
<b>Understanding Digital Culture Courses</b>		
Select one of the following:		3
ART 309	Issues in Contemporary Art:	
COMMUN 313	Human Communication and Technology	
ENGLISH 380	Media and Society:	
INFOST 310	Human Factors in Information Seeking and Use	
JAMS 461	Media Ethics	
<b>Practicing the Digital Arts Courses</b>		
Select one of the following:		3
ART 324	Web Design	
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	
INFOST 350	Introduction to Application Development	
INFOST/ART/DAC 408	Nonprofit Information Technology (application required before open enrollment)	
JAMS/DAC 336	Media Graphics	
<b>Total Credits</b>		<b>12</b>

## Electives

Select 12 additional credits from the lists below, including at least 6 credits from Understanding Digital Culture and 6 credits from Practicing the Digital Arts. At least one of these courses should be numbered 300 or above.

### Understanding Digital Culture Electives

Code	Title	Credits
Enroll in and complete 6 credits:		
ANTHRO/DAC 140	Games and Society	
ANTHRO 302	Anthropology and Popular Culture (if not selected above)	
ANTHRO 340	Cultures of Online Games and Virtual Worlds	
ART 150	Multicultural America	
ART 309	Issues in Contemporary Art: (if not selected above)	
ARTHIST 376	History and Theory of New Media Art	
COMMUN 310	Communication in Organizations	
COMMUN 313	Human Communication and Technology (if not selected above)	

COMMUN 350	Intercultural Communication
COMMUN 360	Entertainment and Politics
COMMUN 370	Quantitative Research in Communication
COMMUN 410	Organizational Communication Technology
COMMUN 413	Rhetoric and the Internet
COMMUN 440	Contemporary Problems in Freedom of Speech
COMPLIT 133	Contemporary Imagination in Literature and the Arts
COMPLIT 135	Experiencing Literature in the 21st Century:
COMPLIT 233	Literature and Film:
DAC 199	Independent Study
DAC 699	Advanced Independent Study
ENGLISH/ARTHIST/ FILMSTD 111	Entertainment Arts: Film, Television, and the Internet (if not selected above)
ENGLISH 253	Science Fiction:
ENGLISH/FILMSTD 290	Introduction to Film Studies
ENGLISH/FILMSTD 291	Introduction to Television Studies
ENGLISH 294	Game Culture
ENGLISH/FILMSTD 312	Topics in Film, Television and Digital Studies:
ENGLISH/FILMSTD 329	Film and Literature
ENGLISH/FILMSTD 380	Media and Society: (if specific title not selected above)
ENGLISH/FILMSTD 383	Cinema, Television, and Genre:
ENGLISH/FILMSTD 393	Entertainment Industries:
ENGLISH/FILMSTD 394	Theories of Digital Culture:
FILMSTD 212	Intermediate Topics in Film and Television Studies:
GLOBAL 202	Introduction to Global Studies III: Globalization and Technology
GLOBAL 351	Language, Media, and Social Practice in Global Communications
INFOST 110	Introduction to Information Science and Technology (if not selected above)
INFOST 120	Information Technology Ethics
INFOST 310	Human Factors in Information Seeking and Use (if not selected above)
INFOST 340	Introduction to Systems Analysis
INFOST 465	Legal Aspects of Information Products and Services
INFOST 491	Advanced Topics in Information Science & Technology:
INFOST 674	The Search Engine Society
INFOST 675	Information Technology and Organizations

JAMS 101	Introduction to Mass Media (if not selected above)
JAMS 111	Gender and the Media
JAMS/DAC 113	Internet Culture (if not selected above)
JAMS 262	Principles of Media Studies
JAMS 304	News Literacy
JAMS 450	Race and Ethnicity in the Media
JAMS 460	History of Mass Media
JAMS 461	Media Ethics
JAMS 559	Freedom of Expression in the Digital Age
JAMS 562	Media Studies and Culture

### Practicing the Digital Arts

Code	Title	Credits
Enroll in and complete 6 credits:		
ART 108	2D Studio: Concept, Color and Composition	
ART 118	Digital Arts: Culture, Theory, Practice (if not selected above)	
ART 212	Creative Technologies	
ART 218	Moving Images and Sound in Art & Design	
ART 221	Introduction to Design	
ART 253	Introduction to Photography	
ART 313	Creative Coding	
ART 314	Digital Painting	
ART 316	Creative Interfaces	
ART 317	3D Environments and XR	
ART 318	Creative Electronics	
ART 324	Web Design (if not selected above)	
ART 325	Web Design II	
ART 327	Digital Media Workshop:	
ART 424	Topics in Web, Interaction and Screen Design:	
ART 426	Motion Graphics	
DAC 289	Internship in Digital Arts and Culture, Lower Division	
DAC 489	Internship in Digital Arts and Culture, Upper Division	
DAC 661	Digital Engagement Seminar (only offered in Spring semesters)	
ENGLISH 206	Technical Writing	
ENGLISH 214	Writing in the Professions: (Writing and Social Media for Careers)	
ENGLISH 240	Rhetoric, Writing, and Culture:	
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century (if not selected above)	
ENGLISH 431	Topics in Advanced Communications:	
ENGLISH 435	Rhetoric and Professional Writing	
ENGLISH 436	Technical Documentation	
ENGLISH 437	Project Management for Professional Writers	
ENGLISH 439	Information Design	

ENGLISH 443	Grant Writing
FILM 107	Digital Filmmaking for Non-Majors
FILM 180	Foundation Production: Fiction
FILM 181	Foundation Production: Nonfiction
FILM 255	Introduction to Digital Arts
FILM 301	Film Art for Non-Majors
FILM 463	Experimental Documentary
FILM 466	Appropriated Media
GEOG 215	Introduction to Geographic Information Science
GEOG 525	Geographic Information Science
INFOST 240	Web Design I
INFOST 320	Web Design II
INFOST 350	Introduction to Application Development
INFOST 370	Data Analysis and Visualization for the Information Professional
INFOST 375	Multimedia Web Design
INFOST/ART/DAC 408	Nonprofit Information Technology (if not selected above)
INFOST 685	Electronic Publishing and Web Design
JAMS/DAC 113	Internet Culture (if not selected above)
JAMS 201	Media Writing (if not selected above)
JAMS 207	Introduction to Advertising and Public Relations
JAMS 231	Publication Design
JAMS 232	Photojournalism
JAMS 302	Introduction To Video Storytelling
JAMS 325	Audio Storytelling
JAMS 332	Introduction to Digital Documentary
JAMS/DAC 336	Media Graphics (if not selected above)
JAMS 370	Introduction to Social Media and Search Engine Optimization
JAMS 399	On-Campus Internship (DAC placement)
JAMS 481	Topics in Social Media:

MUSIC 327	Studio Techniques
MUSIC 328	Interactive Electronic Music
MUSIC 680	Special Studies in Music: (Interactivity and Improvisation)
THEATRE 218	Computer Modeling and Graphics for Live Performance
THEATRE 337	Sound Production and Digital Editing for Stage and Studio
THEATRE 437	Sound Design and Digital Editing

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Committee.

## Economics

Economics is the study of choice. In a world with scarce resources (such as raw materials, labor, time), economists study how people choose to use those resources to make people as well-off as possible. The economics curriculum stresses both theory and application of important economic issues in society, such as unemployment, inflation, exchange rates, labor markets, economic development, environmental policies, and international trade and finance.

The Department of Economics in the College of Letters and Science offers a wide variety of courses in economic theory, policy, and statistics.

## Related Programs

A related special major is international studies (p. 1128); a related degree program is the BA in Global Studies (p. 1088).

## Programs

- Applied Econometrics and Data Analysis, Graduate Certificate (p. 998)
- Economics, BA (p. 999)
- Economics, MA (p. 1003)
- Economics, Minor (p. 1004)
- Economics, PhD (p. 1005)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Scott Adams	Professor, Chair	PhD	Michigan State University	✓	
Swarnjit S. Arora	Professor Emeritus	PhD	State University of New York at Buffalo		✓
Mohsen Bahmani-Oskoe	Distinguished Wilmeth Professor	PhD	Michigan State University	✓	
Niloy Bose	Professor	PhD	Virginia Tech	✓	
Avik Chakrabarti	Associate Professor	PhD	University of Michigan	✓	
Susan Donohue Davies	Adjunct Assistant Professor	PhD	University of Wisconsin-Milwaukee		
Scott Drewianka	Associate Professor	PhD	University of Chicago	✓	
John S. Heywood	Distinguished Professor	PhD	University of Michigan	✓	
William L. Holahan	Professor Emeritus	PhD			✓
Sunwoong Kim	Professor	PhD	Massachusetts Institute of Technology	✓	
N. Kundan Kishor	Associate Professor	PhD	University of Washington	✓	
Itziar Lazkano	Assistant Professor	PhD	University of Calgary	✓	

Tong Hun Lee	Professor	PhD			✓
Vivian Lei	Associate Professor	PhD	Purdue University		✓
Markos J. Mamalakis	Professor Emeritus	PhD			✓
Matthew McGinty	Associate Professor	PhD	University of California, Santa Cruz		✓
G. Richard Meadows	Professor Emeritus	PhD			✓
Hamid Mohtadi	Professor	PhD	University of Michigan		✓
Antu P. Murshid	Associate Professor	PhD	Rutgers University		✓
Rebecca Neumann	Associate Professor	PhD	University of Colorado		✓
Yoshio Niho	Professor Emeritus	PhD			✓
James A. Peoples	Professor	PhD	University of California, Berkeley		✓
Eric Schenker	Professor	PhD			✓
Filip Vesely	Associate Professor	PhD	Purdue University		✓

## Applied Econometrics and Data Analysis, Graduate Certificate

The certificate program in applied econometrics and data analysis is designed to prepare students for the job market that emphasizes quantitative data skills. Job applicants with econometrics skills are in high demand in many occupations in business and government. In the business world, a few examples of areas in which those with econometrics training work are policy analysis, financial analysis, forecasting, market research, logistics, and quality control. Econometrics training is also useful for government jobs. Policymakers need hard evidence on which to base their decisions; data must be collected, analyzed, and presented in a convincing way. State and Federal Government departments, such as the Federal Reserve and the Bureau of Labor Statistics, regularly seek graduates with econometric and data skills.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

#### Admission

Adequate preparation at the undergraduate level equivalent to two semesters of course work in intermediate microeconomic theory (ECON 301 or equivalent) and intermediate macro-economic theory

(ECON 302 or equivalent), one semester of statistics, and one semester of calculus.

Applicants must possess a baccalaureate degree and have a minimum 3.0 GPA at the undergraduate level, be admitted to another UWM graduate program and have an minimum 3.0 GPA, or 6 or more graduate credits in Economics with a minimum 3.0 GPA.

### Credits and Courses

To obtain the certificate, students must complete 16 credits in approved courses in applied econometrics and data sciences as listed below, with a minimum grade point average of 3.0. Courses for the certificate may not be taken on a credit/no credit basis.

Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

Code	Title	Credits
<b>Required</b>		
ECON 703	Econometrics	4
<b>Electives</b>		
Select four from the following:		12
ECON 710	Applied Econometrics	
ECON 734	Foundation of Econometric Methods	
ECON 735	Econometric Methods I	
ECON 835	Econometric Methods II	
ECON 915	Seminar: Econometric Methods:	
ECON 999	Independent Work <sup>1</sup>	
ECON 310G	Research Methods for Economics	
ECON 411G	Economic Forecasting Methods	
ECON 413G	Statistics for Economists	
ECON 513G	Introduction to Econometrics	
ECON 751	Labor Economics I	
ECON 752	Labor Economics II	
ECON 905	Seminar: Banking and Monetary Theory:	
BUS ADM 995	Doctoral Seminar in Decision Sciences:	
MTHSTAT 566G	Computational Statistics	
MTHSTAT 766	Computational Statistics	
<b>Total Credits</b>		<b>16</b>

<sup>1</sup> A maximum of 3 credits in ECON 999 can apply to the certificate.

## Additional Requirements

### Transfer Credit

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Graduate Committee of the Department of Economics. A maximum of three (3) credits may be transferred to count toward the Applied Econometrics and Data Analysis certificate program's 16-credit requirement.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Economics, BA

Economics is the study of choice and decision-making in the face of scarce resources, both at the individual and group levels. Economists examine tradeoffs between different actions and behaviors; analyze different scenarios such as a change in prices, cultural values, or law; and seek to explain and predict human behavior.

Students often ask what the difference is between Economics and Finance. The areas are interrelated and inform and influence each other. Professionally, there is also crossover, with economists working in financial markets and financial experts working on economic policy. In

broad terms, economics focuses on concepts related to overall markets, government policy, and decision-making influences. Finance tends to focus on individual businesses and individual people, including the study of assets and liabilities, and financial statements and reporting.

At UWM, students of economics have access to faculty members who are internationally recognized experts in their field. Focus areas for students to choose from include economic theory, quantitative methods including econometrics, public policy, law and the economy, labor economics, and international economic relations.

Many are surprised to learn about the diverse career paths a major in Economics can lead to. Individuals with strong analytical ability and skill working with data and statistics are in high demand in financial management, accounting, human resources, data management, law, marketing, insurance, and more.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	

MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3

MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.



Code	Title	Credits
Completed in one of the following ways:		
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	0-18
	Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)	

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	9
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

### Economics Major Requirements

To major in economics, students must earn grades of at least C in ECON 103 and ECON 104, attain at least a 2.0 GPA on all credits in the major attempted at UWM, and attain at least a 2.0 GPA on all major credits attempted when any transfer work is included along with the UWM work. The major in economics requires a minimum of 30 credits plus a research requirement including the following:

Code	Title	Credits
<b>Required <sup>1</sup></b>		
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
ECON 210	Economic Statistics <sup>2</sup>	3
ECON 301	Intermediate Microeconomics	3
ECON 302	Intermediate Macroeconomics	3
<b>Electives <sup>1</sup></b>		
Select at least one course at the 400 level or above (excluding ECON 415).		3
Select 12 additional credits in ECON, 3 of which must be in an approved research requirement course (see below).		12
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> At least 15 credits must be in upper-division (300 level and above) economics courses taken in residence at UWM.

<sup>2</sup> BUS ADM 210 or MTHSTAT 215 may be substituted for ECON 210 and will count in the major GPA.

#### Research Requirement

All majors in economics must complete an independent research experience by selecting, from the list below, a 400- or 500-level course in which they will write and present a research paper. The contents of the

paper and the presentation of the results will be arranged with the faculty member teaching the course.

Eligible courses include:

Code	Title	Credits
ECON 404	Economic Applications of Game Theory	
ECON 411	Economic Forecasting Methods	
ECON 413	Statistics for Economists	
ECON 426	Public Economics	
ECON 432	Industrial Organization	
ECON 447	Labor Economics	
ECON 448	Economics of Human Resources	
ECON 454	International Trade	
ECON 455	International Finance	
ECON 506	Mathematical Economics I	
ECON 513	Introduction to Econometrics	
ECON 525	The Economics of Water	
ECON 699	Independent Work	

## Optional Concentrations

The Department offers three optional concentrations within the major. While completing the major requirements outlined above, students may elect to complete one of the following sets of requirements:

### International Economic Relations

Code	Title	Credits
ECON 351	Introduction to International Economic Relations	
ECON 353	Economic Development	
ECON 454	International Trade	
ECON 455	International Finance	

### Quantitative Methods

Code	Title	Credits
ECON 310	Research Methods for Economics	
ECON 411	Economic Forecasting Methods	
ECON 413	Statistics for Economists	
ECON 513	Introduction to Econometrics	

### Graduate Preparation

Code	Title	Credits
ECON 413	Statistics for Economists	
ECON 506	Mathematical Economics I	
ECON 513	Introduction to Econometrics	
ECON 606	Mathematical Economics II	

## Additional Economics Modules

For courses that meet the requirements of the following modules:

- General Economics;
- Economic Theory;

- The Economics of Public Policy;
- Strategy, Law, and the Economy; and
- Labor Economics

Please see below.

Code	Title	Credits
<b>General Economics</b>		
ECON 100	Introductory Economics	
ECON 103	Principles of Microeconomics	
ECON 104	Principles of Macroeconomics	
ECON 110	Economics of Personal Finance	
ECON 193	First-Year Seminar:	
ECON 199	Independent Study	
ECON 210	Economic Statistics	
ECON 248	Economics of Discrimination	
ECON 258	Selected Topics in Economics:	
ECON 289	Internship in Economics, Lower Division	
ECON 297	Study Abroad:	
ECON 299	Ad Hoc:	
ECON 381	Honors Seminar:	
ECON 458	Selected Topics in Economics:	
ECON 489	Internship in Economics, Upper Division	
ECON 497	Study Abroad:	
ECON 499	Ad Hoc:	
ECON 699	Independent Work	
<b>Economic Theory</b>		
ECON 301	Intermediate Microeconomics	
ECON 302	Intermediate Macroeconomics	
ECON 404	Economic Applications of Game Theory	
ECON 506	Mathematical Economics I	
ECON 606	Mathematical Economics II	
<b>The Economics of Public Policy</b>		
ECON 325	Money and Banking	
ECON 328	Environmental Economics	
ECON 426	Public Economics	
ECON 450	Health Economics	
ECON 525	The Economics of Water	
<b>Strategy, Law, and the Economy</b>		
ECON 231	Analysis of American Industries	
ECON 335	Economics of Antitrust Laws	
ECON 432	Industrial Organization	
<b>Labor Economics</b>		
ECON 415	Economics of Employment and Labor Relations	
ECON 447	Labor Economics	
ECON 448	Economics of Human Resources	

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your

entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Major

Departmental honors are awarded upon graduation to students who achieve a 3.000 GPA on all UWM graded credits attempted, a 3.500 GPA on all credits that count toward the major, and a 3.500 GPA on all credits in advanced-level (numbered 300 and above) courses that count toward the major.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Economics, MA

The Department of Economics offers graduate programs of study designed to prepare students for careers in education and for careers in administrative and research positions in government, industry and labor. The programs are built upon a solid core of training in economic theory and in quantitative analysis, with area concentrations in econometrics, economic growth and development, industrial organization, international economics, labor economics and human resources, mathematical economics, monetary theory and policy, and urban and regional economics.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. An undergraduate major in economics and one semester of calculus. Alternatively, adequate preparation at the undergraduate level equivalent to two semesters of coursework in intermediate economic theory, one semester of statistics, and one semester of calculus.
2. Submission of scores on the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) General Test or equivalent quantitative courses is recommended. Test of English as a Foreign Language exam is required for applicants whose native language is not English.
3. Two letters of recommendation from persons familiar with applicant's scholastic achievement and potential.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. Deficiencies are to be made up through the following:

- in economic theory through ECON 301 and ECON 302;
- in statistics through ECON 210; and
- in calculus through MATH 211.

## Credits and Courses

### Option A: Thesis Option

Minimum degree requirement is 30 graduate credits.

Code	Title	Credits
<b>Thesis</b>		
Select 6 credits of the following:		6
ECON 990	Graduate Thesis	
<b>Required</b>		
ECON 701	Economic Theory: Microeconomics	4
ECON 702	Economic Theory: Macroeconomics	4
ECON 703	Econometrics	4
<b>Additional Requirements</b> <sup>1</sup>		
Select one of the following:		6
One area of concentration		
ECON 506 & ECON 606	Mathematical Economics I and Mathematical Economics II	
Select 6 additional credits of graduate work		6
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> The student must select one area of concentration offered by the Department and must take at least two semesters in this concentration in courses numbered 700 or above (except ECON 990, ECON 991 and ECON 999).

### Latin American Concentration

A concentration on Latin America is available. A student with previous interest and commitment in Latin American studies, who is able to demonstrate—through examination—good reading ability and fair conversational ability in Spanish or Portuguese, is permitted to select this concentration under Option A. Requirements for this concentration are:

Code	Title	Credits
<b>Thesis</b>		
Select 6 credits of the following:		6
ECON 990	Graduate Thesis	
<b>Required</b>		
ECON 774	Economic Development - Theory	3
ECON 775	Economic Development - Policy	3
<b>Electives</b>		
Select 3 credits in Interdisciplinary Seminar on Latin America		3
Select a graduate course in Latin America in some field other than economics		3
Select 9 additional credits of graduate work		9
<b>Total Credits</b>		<b>27</b>

### Option B: Non-Thesis Option

Code	Title	Credits
<b>Required</b>		
ECON 701	Economic Theory: Microeconomics	4
ECON 702	Economic Theory: Macroeconomics	4
ECON 703	Econometrics	4
<b>Additional Requirements</b>		
Select one of the following:		6
One area of concentration <sup>1</sup>		
ECON 506 & ECON 606	Mathematical Economics I and Mathematical Economics II	
Select 6 additional credits of graduate work		6
<b>700- Level and Above</b>		
Select any two courses numbered 700 or above in other areas of economics <sup>2</sup>		6
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> The student must take at least two courses in this concentration in courses numbered 700 or above.

<sup>2</sup> Except ECON 734, ECON 990, ECON 991, and ECON 999.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. In Economics the newly admitted master's student is advised by the Graduate Study advisor.

### Option A: Thesis Option

#### Thesis

An acceptable thesis must be written on the student's area of concentration.

#### Comprehensive Examination

The student must pass a final oral examination in defense of the thesis.

#### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

### Option B: Non-Thesis Option

#### Thesis

No formal thesis is required. The student must submit a master's paper instead of a thesis.

#### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Economics, Minor

Economics is the study of choice and decision-making in the face of scarce resources, both at the individual and group levels. Economists examine tradeoffs between different actions and behaviors; analyze

different scenarios such as a change in prices, cultural values, or law; and seek to explain and predict human behavior.

Students often ask what the difference is between Economics and Finance. The areas are interrelated and inform and influence each other. Professionally, there is also crossover, with economists working in financial markets and financial experts working on economic policy. In broad terms, economics focuses on concepts related to overall markets, government policy, and decision-making influences. Finance tends to focus on individual businesses and individual people, including the study of assets and liabilities, and financial statements and reporting.

At UWM, students of economics have access to faculty members who are internationally recognized experts in their field. Focus areas for students to choose from include economic theory, quantitative methods including econometrics, public policy, law and the economy, labor economics, and international economic relations.

## Requirements

The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM, and at least a 2.0 GPA on all minor credits attempted when any transfer work is included along with the UWM work. The minor in economics requires a minimum of 18 credits:

Code	Title	Credits
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
ECON 210	Economic Statistics <sup>1</sup>	3
Select 9 credits in upper-division (300 level or above) economics courses taken in residence at UWM		9
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> BUS ADM 210 or MTHSTAT 215 may be substituted for ECON 210 and will count in the minor GPA.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Economics, PhD

The Department of Economics offers graduate programs of study designed to prepare students for careers in education and for careers in administrative and research positions in government, industry and labor. The programs are built upon a solid core of training in economic theory and in quantitative analysis, with area concentrations in econometrics, economic growth and development, industrial organization, international economics, labor economics and human resources, mathematical economics, monetary theory and policy, and urban and regional economics.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program. A master's degree is not prerequisite for admission to the PhD program in economics.

- An undergraduate major in economics with a grade point average (both overall and in economics) of 3.0 (4.0 scale) and one semester of calculus or adequate preparation at the undergraduate level equivalent to two semesters of coursework in intermediate economic theory, one semester of statistics, and one semester of calculus.
- An applicant having a master's degree in economics or graduate coursework in economic theory must have a graduate grade point average of at least 3.33 (4.0 scale).
- Submission of scores on the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) General Test and Subject Test or equivalent quantitative courses is recommended. Test of English as a Foreign Language exam is required for applicants whose native language is not English.
- Two letters of recommendation from persons familiar with applicant's scholastic achievement and potential.
- Reason statement. A personal statement that describes your research interests, qualifications, and career goals.

### Reapplication

A student who is in the master's program must formally reapply for admission to Graduate School before continuing toward the PhD. To receive doctoral student status, a student must complete the master's degree or obtain a waiver of this requirement from the admissions committee, the graduate study advisor, and the Department Chair. The waiver must be obtained before the student completes 27 credits in the MA program.

## Credits and Courses

Minimum degree requirement is 54 credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM. Of the total credits required, a minimum of 42 must be taken in the field of economics.

Code	Title	Credits
ECON 801	Advanced Microeconomic Theory I	3
ECON 802	Advanced Macroeconomic Theory I	3
ECON 803	Advanced Microeconomic Theory II	3
ECON 804	Advanced Macroeconomic Theory II	3
Select 12 credits in quantitative theory		12
Select 15 credits in two areas of concentration		15
Select 3 credits of research skills as detailed below		3
Select one of the following:		9-12
Minor Field <sup>1</sup>		
Electives <sup>2</sup>		
<b>Total Credits</b>		<b>51-54</b>

<sup>1</sup> Minor field: 9 to 12 credits in a single department other than Economics; courses planned with a professor in the minor department and the examination, if required, is administered by the minor department.

<sup>2</sup> Electives: 9 to 12 credits in courses from any departments, including Economics, but no more than 6 credits in any one department other than Economics; courses are to be planned with the approval of the Graduate Study advisor and no examination is required.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. In Economics, the newly admitted PhD student is advised by the Graduate Study advisor.

### Research Skill

Research skill requirements are individually assigned by the graduate study advisor. Research skill requirement is fulfilled through courses in computer science, mathematics, statistics, mathematical economics (700 level or above), or econometrics (700 level or above).

### Residence

The student must meet minimum Graduate School residence requirements. The PhD student meets the continuous portion of the residence credit requirement by completing 8 to 12 credits in each of two consecutive semesters, including summer sessions. Residence credit is not earned at the master's level or prior to award of the master's degree.

### Doctoral Preliminary Examination

The student must pass doctoral preliminary examinations for formal admission to candidacy for the degree. The examinations are given in sections covering economic theory and the student's two areas of concentration. Students must take the sections in economic theory first.

Students may attempt any prelim exam twice. Any student failing a prelim exam twice may appeal to the Graduate Faculty for permission to take the exam for a third time if:

1. The student's request is accompanied by letters of support from at least two members of the faculty and where one of the faculty is a member of the prelim committee awarding the failing grade, and
2. The student is still able to satisfy the time limits outlined below. (Note: These conditions must be met before an appeal can be

considered by the Graduate Faculty. Satisfaction of these conditions in no way obligates the Graduate Faculty to grant any appeal.)

Students may not take the field exams until they have passed both theory exams. A section is also included covering the minor if there is one; this section is administered by the department concerned.

The schedule specifying the time at which these examinations are taken is as follows:

1. A doctoral student with an MA in Economics from UWM must attempt both theory prelims at the conclusion of 2 semesters or 12 credits (whichever happens last) and must pass both theory prelims prior to the start of the 5th semester or at the conclusion of 24 credits (whichever happens last).
2. A doctoral student with an MA in Economics from another institution must attempt both theory prelims at the conclusion of 3 semesters or 24 credits (whichever happens last) and must pass both theory prelims prior to the beginning of the 6th semester or at the conclusion of 36 credits (whichever happens last).
3. A doctoral student without an MA in Economics must attempt both theory prelims at the conclusion of 5 semesters or 36 credits (whichever happens last) and must pass both exams prior to the beginning of the 8th semester or at the conclusion of 48 credits (whichever happens last).

### Dissertation

The candidate must write a dissertation which demonstrates ability to formulate a research topic and pursue independent and original investigation.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

## English

English studies today offers a wider range of classes, topics, and projects than ever before. You can still explore the classic works of literature and the great authors, to be sure. But now our curriculum also includes film studies and media, rhetoric and professional writing, the digital humanities, critical and cultural theory, and creative writing workshops. Students can focus their studies in these areas and choose elective classes that best meet their personal and career goals.

Our courses primarily cover the language and literature of English-speaking peoples, but English is a global language - literature in English now comes from all over the world. Many of our courses feature postcolonial fiction, drama, poetry, and prose from Africa, Asia, the Caribbean and the Americas. The study of U.S.-based literature includes Native American, African American, Latinx, and Asian American works that explore the rich cultural diversity of contemporary society.

Through these courses students develop deep and broad skills in reading and writing and an eye for how to approach literature, language, and rhetoric from multiple perspectives. We encourage every student to question the meaning, context, value and aesthetics in the works they

read and apply these critical analyses tools in their professional and personal lives.

- English, MA/Library and Information Science, MLIS (p. 1019)
- English, Minor (p. 1022)
- English, PhD (p. 1023)
- English, Writing, Editing, and Publishing Minor (p. 1025)

## Programs

- English, BA (p. 1008)
- English, MA (p. 1017)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Gerald J. Alred	Professor	MA			✓
Sukanya Banerjee	Associate Professor	PhD	University of California-Riverside	✓	
F. Xavier Baron	Professor	PhD			✓
Kimberly Blaeser	Professor	PhD	University of Notre Dame	✓	
Gilberto Blasini	Associate Professor	PhD	University of California-Los Angeles	✓	
Rachel Bloom-Pojar	Assistant Professor	PhD	University of Kansas	✓	
Mary Louise Buley-Meissner	Professor	PhD	University of Washington	✓	
Marcus P. Bullock	Professor	PhD			✓
Liam Callanan	Professor	MFA	George Mason University	✓	
George M. Clark	Professor	PhD	Florida State University	✓	
David P. Clark	Associate Professor	PhD	Iowa State University	✓	
Brenda Cárdenas	Associate Professor	MFA	University of Michigan - Ann Arbor	✓	
Rebecca Dunham	Professor	PhD	University of Missouri	✓	
J. Denny Fischer	Assistant Professor	PhD	University of Illinois		
Jane A. Gallop	Distinguished Professor	PhD	Cornell University	✓	
Alice Gillam	Professor	PhD	Ball State University		✓
John A. Goulet	Professor	PhD			✓
Sandra Grayson	Professor	PhD	University of California – Riverside	✓	
Richard Grusin	Distinguished Professor	PhD	University of California-Berkeley	✓	
J. Lane Hall	Professor	MFA	University of Wisconsin-Madison	✓	
Kristie Hamilton	Associate Professor	PhD	University of Texas-Austin	✓	
Gregory S. Jay	Professor	PhD	State University of New York-Buffalo	✓	
Barrett Kalter	Associate Professor	PhD	Rutgers University	✓	
William Keith	Professor	PhD	University of Texas-Austin	✓	
Gwynne Kennedy	Associate Professor	PhD	University of Pennsylvania	✓	
Mauricio Kilwein Guevara	Professor	PhD	University of Wisconsin-Milwaukee	✓	
Andrew Kincaid	Associate Professor	PhD	University of Minnesota	✓	
James M. Kuist	Professor	PhD			✓
Valerie Laken	Associate Professor	MFA	University of Michigan	✓	
Joseph Lanter	Professor	PhD	University of Leiden, the Netherlands	✓	
Dennis Lynch	Professor	PhD	University of California-Berkeley		✓
Andrew Martin	Professor	PhD	University of Iowa		✓
Patricia Mayes	Associate Professor	PhD	University of California-Santa Barbara	✓	
Margaret Mika	Senior Lecturer	MA	University of Wisconsin-Milwaukee		
Stuart Moulthrop	Professor	PhD	Yale University	✓	
Jane B. Nardin	Professor	PhD			✓
Mark Netzloff	Associate Professor, Chair	PhD	University of Delaware	✓	
Margaret Noodin	Associate Professor	PhD	University of Minnesota	✓	
Tasha Oren	Associate Professor	PhD	University of Wisconsin-Madison	✓	

Jason Puskar	Associate Professor	PhD	Harvard University	✓	
Peter Sands	Associate Professor	PhD	State University of New York-Binghamton	✓	
Kumkum Sangari	Professor	PhD	University of Leeds, United Kingdom	✓	
Charles I. Schuster	Professor	PhD	University of Iowa		✓
Rachel Spilka	Associate Professor	PhD	Carnegie Mellon University	✓	
Bruce R. Stark	Associate Professor	PhD			✓
Jocelyn Szczepaniak-Gillece	Assistant Professor	PhD	Northwestern University	✓	
William Van Pelt	Associate Professor	PhD	University of California-Santa Cruz		✓
Carolyn Washburn	Senior Lecturer	MSW	University of Pennsylvania		
Shevaun Watson	Associate Professor	PhD	Miami University of Ohio	✓	
Tami Williams	Associate Professor	PhD	University of California-Los Angeles	✓	
Michael Wilson	Associate Professor	PhD	Cornell University	✓	
Anne Wysocki	Professor	PhD	Michigan Technological University		✓

## English, BA

Majoring in English provides students with a wealth of intellectual and practical learning, a foundation to future success. In today's high-technology, interconnected world, the ability to read carefully, think imaginatively, understand others, and communicate across all types of platforms and formats is essential.

Students in the English major at UWM get to choose a track and focus their studies on an area of particular interest:

- Literature and Cultural Theory - where the reading and analysis of literature is emphasized
- Rhetoric and Writing - a broad field that includes writing for different genres
- Creative Writing - ideal for students who love fiction and poetry
- Professional and Technical Writing - with an emphasis on business documentation
- Media, Cinema, and Digital Studies - includes the many forms of communicating through media such as film, tv, games, and the web

Can't choose? In the open focus track of the major, students take a little bit of everything.

In small classes, our students learn to understand the power and possibilities of the English language across the centuries and around the world. Students learn to think critically, write persuasively, argue logically, delve deeply into history, and explore their own creativity. Students are challenged to examine their own assumptions, sharpen their writing, and learn how to read and understand even the most difficult works, from fiction to philosophy.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within

five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		



Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3

MATH 175 Mathematical Explorations for Elementary Teachers I 3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways: 0-18		
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College

requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## English Major Requirements

Prospective majors are expected to consult with the associate chair for undergraduate studies in designing a program that satisfies their individual interests, abilities, and ambitions; if appropriate, a particular requirement may be waived to meet a student's special programmatic needs. English majors intending to continue their studies in graduate school are urged to plan with the coordinator a program that meets graduate school expectations and prepares them for the Graduate Record Exam.

Students entering with advanced standing are required to earn at least 15 credits in English courses numbered 300 and above while in residence at UWM.

#### Credit Requirements

All courses taken towards the major must be at or above the 300 level unless otherwise noted. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

English majors also must complete one of the following tracks. In each track, in their senior year, majors complete a capstone course or senior seminar. This course includes one or more in-depth writing assignments or projects that include a research component, which satisfies the research requirement for the L&S degree.

Code	Title	Credits
<b>Tracks</b>		
Select one of the following tracks:		36
Track A: Literature and Cultural Theory		
Track B: Rhetoric and Professional Writing		
Track C: Creative Writing		
Track H: Media, Cinema, and Digital Studies		
Track O: Open Focus		
<b>Total Credits</b>		<b>36</b>

## Tracks

### Track A: Literary and Cultural Theory

Code	Title	Credits
ENGLISH 215	Introduction to English Studies	3
Select one of the following in English literature from before 1900 and one in pre-1800 literature:		6

ENGLISH 301	Survey of English Literature, Beginnings to 1500	ENGLISH 522	Studies in World Literature Written in English:
ENGLISH 302	Survey of English Literature, 1500-1660	ENGLISH 523	Studies in U.S. Latino/a Literature:
ENGLISH 303	Survey of English Literature, 1660-1798	ENGLISH 524	Studies in Asian-American Literature:
ENGLISH 304	Survey of English Literature, 1798-1900	ENGLISH 622	Seminar in Irish Literature:
ENGLISH 451		ENGLISH 628	Seminar in Literature by Women:
ENGLISH 452	Shakespeare	ENGLISH 629	Seminar in Literature and Sexuality:
ENGLISH 454	Milton	ENGLISH 631	Seminar in African-American Literature:
ENGLISH 455		ENGLISH 632	Seminar in American Indian Literature:
ENGLISH 456	Writers in English Literature, 1500-1660:	Select one of the following:	3
ENGLISH 457	Writers in English Literature, 1660-1798:	ENGLISH 415	Fiction Workshop
ENGLISH 458	Writers in English Literature, 1798-1900:	ENGLISH 416	Poetry Workshop
ENGLISH 500		ENGLISH 430	Advanced Writing Workshop
ENGLISH 501		ENGLISH 431	Topics in Advanced Communications:
ENGLISH 504	Studies in Literature, 1660-1800:	ENGLISH 433	Creative Nonfiction for Publication
ENGLISH 505	Studies in Literature, 1800-1900:	ENGLISH 434	Editing and Publishing
ENGLISH 530		ENGLISH 435	Rhetoric and Professional Writing
Select one of the following:	3	ENGLISH 436	Technical Documentation
ENGLISH 307	Survey of American Literature to 1865	ENGLISH 437	Project Management for Professional Writers
ENGLISH 308	Survey of American Literature, 1865-1965	ENGLISH 438	Advanced Research Writing
ENGLISH 460	Writers in American Literature, 1500-1900:	ENGLISH 615	Advanced Workshop in Fiction
Select one of the following:	3	ENGLISH 616	Advanced Workshop in Poetry:
ENGLISH 378	Survey of Current Literary and Cultural Theory	Select one of the following capstone seminars (satisfies L&S research requirement):	3
ENGLISH 390	Classical Film Criticism and Theory	ENGLISH 620	
ENGLISH 394	Theories of Digital Culture:	ENGLISH 621	
ENGLISH 395	Feminist Media Criticism and Theory:	ENGLISH 622	Seminar in Irish Literature:
ENGLISH 402	Theories of Language and Literature:	ENGLISH 623	Seminar in American Literature:
ENGLISH 432	The Rhetoric of Argument	ENGLISH 624	Seminar in Modern Literature:
ENGLISH 545		ENGLISH 625	Seminar in Literary History:
ENGLISH 547	Studies in Theory and Criticism:	ENGLISH 626	Seminar in Critical Theory:
ENGLISH 626	Seminar in Critical Theory:	ENGLISH 627	Seminar in Literature and Culture:
Select two of the following:	6	ENGLISH 628	Seminar in Literature by Women:
ENGLISH 306	Survey of Irish Literature	ENGLISH 629	Seminar in Literature and Sexuality:
ENGLISH 332	LGBTQ+ Literature:	ENGLISH 630	Seminar in Literature and the Other Arts:
ENGLISH 372	Survey of American Indian Literature	ENGLISH 631	Seminar in African-American Literature:
ENGLISH 373	Survey of Ethnic Minority Literature	ENGLISH 632	Seminar in American Indian Literature:
ENGLISH 374	Survey of U.S. Latino/a Literature	ENGLISH 633	Seminar in Rhetoric and Professional Writing:
ENGLISH 375	Survey of Asian American Literature	ENGLISH 685	Honors Seminar:
ENGLISH 376	Survey of African-American Literature to 1930	9 credits in English electives are required for the major. Students can take 9 credits at the 300 level and above, or 6 credits at the 300 level and above, and 3 credits in a 200-level literature course selected from the following:	9
ENGLISH 377	Survey of African-American Literature, 1930 to the Present	ENGLISH 221	
ENGLISH 381	World Literatures Written in English:	ENGLISH 222	English Writers, 1800 to the Present
ENGLISH 463	Writers in African-American Literature:	ENGLISH 224	
ENGLISH 465	Women Writers:	ENGLISH 229	
ENGLISH 517	Studies in African-American Literature:	ENGLISH 243	Introduction to Literature by Women:
ENGLISH 518	Studies in Irish Literature:	ENGLISH 245	The Life, Times, and Work of a Literary Artist:
ENGLISH 520	Studies in American Indian Literature:	ENGLISH 247	Literature and Human Experience:
ENGLISH 521			

ENGLISH 248	Literature and Contemporary Life:
ENGLISH 251	Fantasy in Literature:
ENGLISH 253	Science Fiction:
ENGLISH 260	Introduction to Poetry:
ENGLISH 261	Introduction to Short Stories:
ENGLISH 262	Introduction to Drama:
ENGLISH 263	Introduction to the Novel:
ENGLISH 268	Introduction to Cultural Studies:
ENGLISH 269	Literary Forms and Genres:
ENGLISH 276	Introduction to American Indian Literature:
ENGLISH 277	Introduction to Ethnic Minority Literature:
ENGLISH 278	Introduction to World Literatures Written in English:
ENGLISH 279	Introduction to U.S. Latino/a Literature:
ENGLISH 280	Introduction to Asian-American Literature:
ENGLISH 281	Introduction to African-American Literature:
ENGLISH 285	Modern Irish Language and Literature in Translation

**Total Credits** **36**

### Track B: Rhetoric and Professional Writing

Code	Title	Credits
Core Courses		
ENGLISH 215	Introduction to English Studies	3
ENGLISH 240	Rhetoric, Writing, and Culture:	3
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3
ENGLISH 633	Seminar in Rhetoric and Professional Writing: (subtitle) (capstone seminar experience) (satisfies L&S research requirement)	3
Select 18 credits in Rhetoric, Professional Writing, and Media Studies (only 6 credits may be at the 200-level)		18
ENGLISH 205	Business Writing	
ENGLISH 206	Technical Writing	
ENGLISH 207	Health Science Writing	
ENGLISH 294	Game Culture	
ENGLISH 380	Media and Society:	
ENGLISH 400	Introduction to English Linguistics	
ENGLISH 404	Language, Power, and Identity	
ENGLISH 426	Professional and Technical Communications Research	
ENGLISH 427	Writing for Nonprofits	
ENGLISH 431	Topics in Advanced Communications: (Rhetorical History and Theory)	
ENGLISH 432	The Rhetoric of Argument	
ENGLISH 430	Advanced Writing Workshop	
ENGLISH 433	Creative Nonfiction for Publication	
ENGLISH 435	Rhetoric and Professional Writing	
ENGLISH 436	Technical Documentation	

ENGLISH 437	Project Management for Professional Writers	
ENGLISH 434	Editing and Publishing	
ENGLISH 439	Information Design	
ENGLISH 443	Grant Writing	
ENGLISH 444	Technical Editing	
ENGLISH 446	Global Business Communications	
ENGLISH 448	Technical Communications Theory and Practice	
ENGLISH 449	Internship in the Humanities	
Select 6 credits in Diversity and Community Studies		6
ENGLISH 316	World Cinema:	
ENGLISH 332	LGBTQ+ Literature:	
ENGLISH 372	Survey of American Indian Literature	
ENGLISH 373	Survey of Ethnic Minority Literature	
ENGLISH 374	Survey of U.S. Latino/a Literature	
ENGLISH 375	Survey of Asian American Literature	
ENGLISH 376	Survey of African-American Literature to 1930	
ENGLISH 377	Survey of African-American Literature, 1930 to the Present	
ENGLISH 381	World Literatures Written in English:	
ENGLISH 463	Writers in African-American Literature:	
ENGLISH 465	Women Writers:	
ENGLISH 517	Studies in African-American Literature:	
ENGLISH 520	Studies in American Indian Literature:	
ENGLISH 521		
ENGLISH 522	Studies in World Literature Written in English:	
ENGLISH 523	Studies in U.S. Latino/a Literature:	
ENGLISH 524	Studies in Asian-American Literature:	
ENGLISH 575	The Story Experience	
ENGLISH 628	Seminar in Literature by Women:	
ENGLISH 629	Seminar in Literature and Sexuality:	
ENGLISH 631	Seminar in African-American Literature:	
ENGLISH 632	Seminar in American Indian Literature:	

**Total Credits** **36**

### Track C: Creative Writing

Code	Title	Credits
ENGLISH 215	Introduction to English Studies	3
Select one of the following:		3
ENGLISH 233	Introduction to Creative Writing	
ENGLISH 234		
ENGLISH 235		
Select three of the following:		9
ENGLISH 414	Special Topics in Creative Writing:	
ENGLISH 415	Fiction Workshop	
ENGLISH 416	Poetry Workshop	
ENGLISH 418	Literary Journal Production	
ENGLISH 612		
Select two of the following:		6
ENGLISH 325	The Art of Fiction:	

ENGLISH 326	The Development of the Novel:
ENGLISH 327	The Development of the Short Story
ENGLISH 328	
ENGLISH 329	Film and Literature
ENGLISH 341	The Development of Drama:
ENGLISH 342	Comedy:
ENGLISH 343	
ENGLISH 344	Modern Drama:
ENGLISH 360	The Art of Poetry:
ENGLISH 361	The Development of Poetry:
ENGLISH 378	Survey of Current Literary and Cultural Theory
ENGLISH 417	Readings for Writers:
ENGLISH 515	Literature and the Other Arts:
ENGLISH 547	Studies in Theory and Criticism:
Select one of the following:	3
ENGLISH 301	Survey of English Literature, Beginnings to 1500
ENGLISH 302	Survey of English Literature, 1500-1660
ENGLISH 303	Survey of English Literature, 1660-1798
ENGLISH 451	
ENGLISH 452	Shakespeare
ENGLISH 454	Milton
ENGLISH 456	Writers in English Literature, 1500-1660:
ENGLISH 457	Writers in English Literature, 1660-1798:
ENGLISH 500	
ENGLISH 501	
ENGLISH 504	Studies in Literature, 1660-1800:
ENGLISH 530	
Select two of the following:	6
ENGLISH 304	Survey of English Literature, 1798-1900
ENGLISH 305	Survey of English Literature: 1900 to the Present
ENGLISH 306	Survey of Irish Literature
ENGLISH 307	Survey of American Literature to 1865
ENGLISH 308	Survey of American Literature, 1865-1965
ENGLISH 309	Survey of Contemporary American Literature
ENGLISH 332	LGBTQ+ Literature:
ENGLISH 372	Survey of American Indian Literature
ENGLISH 373	Survey of Ethnic Minority Literature
ENGLISH 374	Survey of U.S. Latino/a Literature
ENGLISH 375	Survey of Asian American Literature
ENGLISH 377	Survey of African-American Literature, 1930 to the Present
ENGLISH 381	World Literatures Written in English:
ENGLISH 455	
ENGLISH 458	Writers in English Literature, 1798-1900:
ENGLISH 459	Writers in English Literature, 1900 to the Present:
ENGLISH 460	Writers in American Literature, 1500-1900:

ENGLISH 461	Writers in American Literature, 1900 to the Present: (subtitle)	
ENGLISH 463	Writers in African-American Literature:	
ENGLISH 465	Women Writers:	
ENGLISH 505	Studies in Literature, 1800-1900:	
ENGLISH 507		
ENGLISH 517	Studies in African-American Literature:	
ENGLISH 518	Studies in Irish Literature:	
ENGLISH 520	Studies in American Indian Literature:	
ENGLISH 521		
ENGLISH 522	Studies in World Literature Written in English:	
ENGLISH 523	Studies in U.S. Latino/a Literature:	
ENGLISH 524	Studies in Asian-American Literature:	
ENGLISH 525		
Select 3 credits in an upper-level English elective	3	
ENGLISH 615	Advanced Workshop in Fiction (capstone experience) (satisfies L&S research requirement)	3
or ENGLISH 616	Advanced Workshop in Poetry:	
<b>Total Credits</b>		<b>36</b>

**Please Note:** In order to register for the ENGLISH 615 or ENGLISH 616 capstone (see below), students must have completed successfully two 400-level workshops (ENGLISH 414, ENGLISH 415, ENGLISH 416) as follows:

- Prerequisites for ENGLISH 615 fiction capstone: ENGLISH 415 and one of the following: a second section of ENGLISH 415 or ENGLISH 414 or ENGLISH 416.
- Prerequisites for ENGLISH 616 poetry capstone: ENGLISH 416 and one of the following: a second section of ENGLISH 416 or ENGLISH 414 or ENGLISH 415.
- Students may not take the two required 400-level workshops in the same semester, and they may not take either of them concurrently with ENGLISH 615/ENGLISH 616.

### Track H: Media, Cinema, and Digital Studies

Code	Title	Credits
ENGLISH 215	Introduction to English Studies	3
Select two of the following:		6
ENGLISH 290	Introduction to Film Studies	
ENGLISH 291	Introduction to Television Studies	
ENGLISH 294	Game Culture	
Select one of the following:		3
ENGLISH 301	Survey of English Literature, Beginnings to 1500	
ENGLISH 302	Survey of English Literature, 1500-1660	
ENGLISH 303	Survey of English Literature, 1660-1798	
ENGLISH 304	Survey of English Literature, 1798-1900	
ENGLISH 305	Survey of English Literature: 1900 to the Present	
ENGLISH 306	Survey of Irish Literature	
ENGLISH 307	Survey of American Literature to 1865	
ENGLISH 308	Survey of American Literature, 1865-1965	

ENGLISH 309	Survey of Contemporary American Literature	
ENGLISH 325	The Art of Fiction:	
ENGLISH 326	The Development of the Novel:	
ENGLISH 327	The Development of the Short Story	
ENGLISH 328		
ENGLISH 332	LGBTQ+ Literature:	
ENGLISH 381	World Literatures Written in English:	
ENGLISH 404	Language, Power, and Identity	
ENGLISH 414	Special Topics in Creative Writing:	
ENGLISH 415	Fiction Workshop	
ENGLISH 425 - ENGLISH 438		
ENGLISH 451 - ENGLISH 547		
ENGLISH 390	Classical Film Criticism and Theory	3
or ENGLISH 391	Television Criticism and Theory	
Select 12 credits in media, cinema, and digital studies (including at least 3 credits from each area and no more than 3 credits in 200-level courses):		12

*Media*

ENGLISH/FILMSTD 286	Writing about Film and Television	
ENGLISH/FILMSTD 291	Introduction to Television Studies (if not selected above)	
ENGLISH/FILMSTD 380	Media and Society:	
ENGLISH/FILMSTD 391	Television Criticism and Theory	
ENGLISH/FILMSTD 393	Entertainment Industries:	
ENGLISH 395	Feminist Media Criticism and Theory:	
ENGLISH 414	Special Topics in Creative Writing: (Zines and Self-Publishing)	
ENGLISH 431	Topics in Advanced Communications: (with appropriate subtitle) (Contact Track H Coordinator)	
FILMSTD 212	Intermediate Topics in Film and Television Studies: (with appropriate subtitle)	

*Cinema*

ENGLISH/FILMSTD 286	Writing about Film and Television	
ENGLISH/FILMSTD 290	Introduction to Film Studies (if not selected above)	
ENGLISH/FILMSTD 295	Women and Film	
ENGLISH/FILMSTD 312	Topics in Film, Television and Digital Studies:	
ENGLISH/FILMSTD 316	World Cinema:	
ENGLISH/FILMSTD 320	Studies in Film and Television Authorship:	
ENGLISH/FILMSTD 329	Film and Literature	
ENGLISH/FILMSTD 383	Cinema, Television, and Genre:	

ENGLISH/FILMSTD 390	Classical Film Criticism and Theory	
ENGLISH/FILMSTD 394	Theories of Digital Culture:	
ENGLISH 414	Special Topics in Creative Writing: (Screenwriting – Story/Structure)	
FILMSTD 212	Intermediate Topics in Film and Television Studies: (with appropriate subtitle)	
FILMSTD/JEWISH 350	Global Jewish Film and Television:	
FILMSTD 412	Global Cinema and Media:	
FILMSTD 669	Screening Sexuality:	
FILMSTD 690	Seminar in Contemporary Cinema and Media: (if not selected as capstone)	

*Digital Studies*

ENGLISH 394	Theories of Digital Culture:	
ENGLISH 294	Game Culture (if not selected above)	
ENGLISH/FILMSTD 312	Topics in Film, Television and Digital Studies: (Cinema and Digital Studies)	
ENGLISH 414	Special Topics in Creative Writing: (Animated Texts)	
ENGLISH 436	Technical Documentation	
ENGLISH 515	Literature and the Other Arts: (From Dada to the Web)	
FILMSTD 212	Intermediate Topics in Film and Television Studies: (with appropriate subtitle)	
Select 6 credits in upper-level electives		6
FILMSTD 690	Seminar in Contemporary Cinema and Media: (capstone seminar experience) (satisfies L&S research requirement)	3

**Total Credits** **36**

**Track O: Open Focus**

At least 3 credits in literature must be in a period before 1900. They can be taken in American Literature, British Literature or any other literature course in the English department. Students can take up to 9 credits in 200-level English courses to satisfy the 36 credits for the major. This includes ENGLISH 215 which is a requirement and non-substitutable. ENGLISH 192 can be substituted for 3 of the 9 credits in 200-level courses.

Students must also complete a 3 credit capstone seminar at the 600 level (612, 615 - 616, 620 - 633, 685, 690), which may be in any of the areas listed below.

Code	Title	Credits
ENGLISH 215	Introduction to English Studies	3
American Literature		3
Select one of the following courses in American Literature		
ENGLISH 223		
ENGLISH 224		
ENGLISH 269	Literary Forms and Genres:	
ENGLISH 274	Literature and the Other Arts:	

ENGLISH 276	Introduction to American Indian Literature:
ENGLISH 277	Introduction to Ethnic Minority Literature:
ENGLISH 278	Introduction to World Literatures Written in English:
ENGLISH 279	Introduction to U.S. Latino/a Literature:
ENGLISH 280	Introduction to Asian-American Literature:
ENGLISH 281	Introduction to African-American Literature:
ENGLISH 307	Survey of American Literature to 1865
ENGLISH 308	Survey of American Literature, 1865-1965
ENGLISH 309	Survey of Contemporary American Literature
ENGLISH 372	Survey of American Indian Literature
ENGLISH 373	Survey of Ethnic Minority Literature
ENGLISH 374	Survey of U.S. Latino/a Literature
ENGLISH 375	Survey of Asian American Literature
ENGLISH 376	Survey of African-American Literature to 1930
ENGLISH 377	Survey of African-American Literature, 1930 to the Present
ENGLISH 460	Writers in American Literature, 1500-1900:
ENGLISH 461	Writers in American Literature, 1900 to the Present:
ENGLISH 463	Writers in African-American Literature:
ENGLISH 517	Studies in African-American Literature:
ENGLISH 520	Studies in American Indian Literature:
ENGLISH 521	
ENGLISH 523	Studies in U.S. Latino/a Literature:
ENGLISH 524	Studies in Asian-American Literature:
ENGLISH 623	Seminar in American Literature:
ENGLISH 631	Seminar in African-American Literature:
ENGLISH 632	Seminar in American Indian Literature:

British Literature 3

Select one of the following courses in British Literature

ENGLISH 221	
ENGLISH 222	English Writers, 1800 to the Present
ENGLISH 301	Survey of English Literature, Beginnings to 1500
ENGLISH 302	Survey of English Literature, 1500-1660
ENGLISH 303	Survey of English Literature, 1660-1798
ENGLISH 304	Survey of English Literature, 1798-1900
ENGLISH 305	Survey of English Literature: 1900 to the Present
ENGLISH 451	
ENGLISH 452	Shakespeare
ENGLISH 530	
ENGLISH 633	Seminar in Rhetoric and Professional Writing:
ENGLISH 454	Milton

ENGLISH 455	
ENGLISH 456	Writers in English Literature, 1500-1660:
ENGLISH 457	Writers in English Literature, 1660-1798:
ENGLISH 458	Writers in English Literature, 1798-1900:
ENGLISH 500	
ENGLISH 501	
ENGLISH 504	Studies in Literature, 1660-1800:
ENGLISH 505	Studies in Literature, 1800-1900:
ENGLISH 621	
Minority, Women's or World Literature	3
Select one of the following courses in Minority, Women's or World Literature	
ENGLISH 243	Introduction to Literature by Women:
ENGLISH 276	Introduction to American Indian Literature:
ENGLISH 277	Introduction to Ethnic Minority Literature:
ENGLISH 278	Introduction to World Literatures Written in English:
ENGLISH 279	Introduction to U.S. Latino/a Literature:
ENGLISH 280	Introduction to Asian-American Literature:
ENGLISH 281	Introduction to African-American Literature:
ENGLISH 285	Modern Irish Language and Literature in Translation
ENGLISH 306	Survey of Irish Literature
ENGLISH 332	LGBTQ+ Literature:
ENGLISH 372	Survey of American Indian Literature
ENGLISH 373	Survey of Ethnic Minority Literature
ENGLISH 374	Survey of U.S. Latino/a Literature
ENGLISH 375	Survey of Asian American Literature
ENGLISH 376	Survey of African-American Literature to 1930
ENGLISH 377	Survey of African-American Literature, 1930 to the Present
ENGLISH 381	World Literatures Written in English:
ENGLISH 463	Writers in African-American Literature:
ENGLISH 465	Women Writers:
ENGLISH 517	Studies in African-American Literature:
ENGLISH 518	Studies in Irish Literature:
ENGLISH 520	Studies in American Indian Literature:
ENGLISH 521	
ENGLISH 522	Studies in World Literature Written in English:
ENGLISH 523	Studies in U.S. Latino/a Literature:
ENGLISH 524	Studies in Asian-American Literature:
ENGLISH 622	Seminar in Irish Literature:
ENGLISH 627	Seminar in Literature and Culture:
ENGLISH 628	Seminar in Literature by Women:
ENGLISH 629	Seminar in Literature and Sexuality:
ENGLISH 631	Seminar in African-American Literature:
ENGLISH 632	Seminar in American Indian Literature:

Theory and Criticism

## Select one of the following courses in Theory and Criticism

ENGLISH 378	Survey of Current Literary and Cultural Theory
ENGLISH 390	Classical Film Criticism and Theory
ENGLISH 391	Television Criticism and Theory
ENGLISH 393	Entertainment Industries:
ENGLISH 394	Theories of Digital Culture:
ENGLISH 395	Feminist Media Criticism and Theory: *
ENGLISH 545	
ENGLISH 547	Studies in Theory and Criticism:
ENGLISH 626	Seminar in Critical Theory:

## Rhetoric, Professional, Technical or Creative Writing 6

## Select two of the following courses in Rhetoric, Professional, Technical or Creative Writing

ENGLISH 201	Strategies for Academic Writing
ENGLISH 205	Business Writing
ENGLISH 206	Technical Writing
ENGLISH 207	Health Science Writing
ENGLISH 210	Global Englishes
ENGLISH 212	Grammar and Usage
ENGLISH 214	Writing in the Professions:
ENGLISH 233	Introduction to Creative Writing
ENGLISH 240	Rhetoric, Writing, and Culture:
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century
ENGLISH 400	Introduction to English Linguistics
ENGLISH 401	History of the English Language
ENGLISH 402	Theories of Language and Literature:
ENGLISH 403	Survey of Modern English Grammar
ENGLISH 404	Language, Power, and Identity
ENGLISH 414	Special Topics in Creative Writing:
ENGLISH 415	Fiction Workshop
ENGLISH 416	Poetry Workshop
ENGLISH 418	Literary Journal Production
ENGLISH 425	Advanced Business Writing
ENGLISH 426	Professional and Technical Communications Research
ENGLISH 427	Writing for Nonprofits
ENGLISH 428	Strategic Writing for Organizations
ENGLISH 430	Advanced Writing Workshop
ENGLISH 431	Topics in Advanced Communications:
ENGLISH 432	The Rhetoric of Argument
ENGLISH 433	Creative Nonfiction for Publication
ENGLISH 434	Editing and Publishing
ENGLISH 435	Rhetoric and Professional Writing
ENGLISH 436	Technical Documentation
ENGLISH 437	Project Management for Professional Writers
ENGLISH 438	Advanced Research Writing
ENGLISH 439	Information Design
ENGLISH 442	Writing Center Tutoring Practicum
ENGLISH 443	Grant Writing
ENGLISH 444	Technical Editing

ENGLISH 445	The Composing Process:
ENGLISH 446	Global Business Communications
ENGLISH 448	Technical Communications Theory and Practice
ENGLISH 449	Internship in the Humanities
ENGLISH 612	
ENGLISH 615	Advanced Workshop in Fiction
ENGLISH 616	Advanced Workshop in Poetry:
ENGLISH 633	Seminar in Rhetoric and Professional Writing:
Media, Cinema, and Digital Studies	6

## Select two of the following courses in Media, Cinema, and Digital Studies

ENGLISH 286	Writing about Film and Television
ENGLISH 290	Introduction to Film Studies
ENGLISH 291	Introduction to Television Studies
ENGLISH 292	Classic Dramas in Film:
ENGLISH 294	Game Culture
ENGLISH 295	Women and Film
ENGLISH 312	Topics in Film, Television and Digital Studies:
ENGLISH 316	World Cinema:
ENGLISH 320	Studies in Film and Television Authorship:
ENGLISH 329	Film and Literature
ENGLISH 380	Media and Society:
ENGLISH 383	Cinema, Television, and Genre:
ENGLISH 390	Classical Film Criticism and Theory
ENGLISH 391	Television Criticism and Theory
ENGLISH 393	Entertainment Industries:
ENGLISH 394	Theories of Digital Culture:
ENGLISH 395	Feminist Media Criticism and Theory: *
FILMSTD 212	Intermediate Topics in Film and Television Studies:
FILMSTD 350	Global Jewish Film and Television:
FILMSTD 412	Global Cinema and Media:
FILMSTD 669	Screening Sexuality:
FILMSTD 690	Seminar in Contemporary Cinema and Media:

English Electives 9

9 credits in English electives are required for the major.

**Total Credits 36**

\* This course is listed in more than one category. It may count in only one category.

## Cross-listed Courses

The following courses offered by other departments may be used to fulfill the requirements of the undergraduate major or minor in English. Only 3 credits in courses from Communication, Theatre, Women's and Gender Studies, Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, and



Journalism, Advertising, and Media Studies will count toward the English major.

Code	Title	Credits
COMMUN 300	Interviewers and Interviewing	3
COMMUN 313	Human Communication and Technology	3
COMMUN 410	Organizational Communication Technology	3
JAMS 306	Feature and Magazine Article Writing:	3
JAMS 562	Media Studies and Culture	3
LGBT 599	Selected Topics in LGBT Studies:	3
THEATRE 359	Playwriting	3
WGS 301	Queer Theory	3

## Related Courses

The following courses offered by other departments may be of interest to students in English, but may not be used to fulfill the requirements of the undergraduate major or minor in English:

Code	Title	Credits
COMMUN 105	Business and Professional Communication	3
JAMS 201	Media Writing	3
JAMS 231	Publication Design	3

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and

- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

English majors need to meet the following three criteria in order to graduate with Honors in the Major:

1. Minimum 3.000 cumulative GPA on all UWM graded credits attempted;
2. Minimum 3.500 GPA on all credits attempted that count toward the major; and
3. Minimum 3.500 GPA on all advanced (300+) credits that count toward the major.

Students who meet these criteria should apply to the coordinator of undergraduate studies.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## English, MA

The Department of English offers master's and doctoral degrees in several areas of specialization: Literature and Cultural Theory; Rhetoric, Professional Writing, and Community Engagement; Creative Writing; and Media, Cinema, and Digital Studies. Students apply for admission to a specific area or concentration but are encouraged to take classes in others.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate major in English or related field, with appropriate background for proposed concentration of study: Plan A, broad background in English and American literature; Plan B, literature, linguistics, and/or composition; Plan C, literature and creative writing; Plan H, background in media studies, film studies, or digital and/or popular culture.
2. Undergraduate grade point average of 3.0 (4.0 scale).
3. Reason statement.
4. Three letters of recommendation to the Department's Director of Graduate Studies from persons familiar with applicant's academic ability and achievement.
5. A sample of academic writing.
6. For Plan C admission, an applicant must also submit samples of original fiction or poetry.

For more information about how to apply to the graduate program in English, as well as admissions FAQs, please see the Students/Graduate section of the English department web site.

## Credits and Courses

Students admitted to the master's program earn the degree by completing a minimum of 30 credits of graduate coursework in English, writing a final project, and passing an oral examination at the conclusion of their coursework.

Although students must enroll initially in one of the four plans of study described below, students who demonstrate a capacity for doctoral work, and wish to earn a PhD at UWM, are advised to proceed as rapidly as possible to the PhD program. Ordinarily students are not allowed to proceed beyond 30 credits without having been admitted to the doctoral program. No more than 27 credits earned at the master's level may be included in the 54 credits required for the PhD.

### Plan A (Literature and Cultural Theory)

A minimum of 30 credits, including:

Code	Title	Credits
ENGLISH 703	Introduction to Graduate Studies in Literature (must be taken in first semester)	1
ENGLISH 720	Modern Literary Theory	3
Select 9 credits in literature courses (at least 3 credits pre-1800)		9
Select 3 credits in 800-level seminar in literature or cultural theory		3
Select 6 credits in cultural theory		6

Select 8 credits of electives <sup>1</sup>	8
<b>Total Credits</b>	<b>30</b>

<sup>1</sup> Which may include up to 5 credits of ENGLISH 790.

### Additional Requirements

- A final project, which shall be a paper of at least 30 pages which grows out of and significantly expands some aspect of the student's literary studies.
- An oral examination, usually lasting an hour and a half, which covers the final project and a separate 30-book reading list.
- All credits must be 600-level or above, with no more than 6 credits at the 600 level. (ENGLISH 701 must be counted as an elective.)

### Plan B (Rhetoric and Professional Writing)

A minimum of 30 credits, including:

Code	Title	Credits
<b>Required courses <sup>1</sup></b>		
ENGLISH 712	Theories in Public Rhetorics and Community Engagement:	3
ENGLISH 713	Research Methods in Rhetorics, Literacies, and Community Engagement:	3
ENGLISH 750	History of Rhetoric and Writing Studies:	3
<b>Select 21 credits of electives <sup>2</sup></b>		<b>21</b>
ENGLISH 427	Writing for Nonprofits	
ENGLISH 431G	Topics in Advanced Communications:	
ENGLISH 432	The Rhetoric of Argument	
ENGLISH 439	Information Design	
ENGLISH 443	Grant Writing	
ENGLISH 444	Technical Editing	
ENGLISH 633G	Seminar in Rhetoric and Professional Writing:	
ENGLISH 701	Writing Pedagogies	
ENGLISH 711	Topics in Public and Professional Writing:	
ENGLISH 749	Advanced Internship in Writing and Community Engagement	
ENGLISH 755	Issues in Writing Research:	
ENGLISH 790	Master's Project <sup>3</sup>	
ENGLISH 854	Seminar in College Writing Pedagogy:	
ENGLISH 855	Seminar in Public Rhetorics and Community Engagement:	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> ENGLISH 712, ENGLISH 713, and ENGLISH 750 may be taken twice with different topics with the second iteration counting toward Electives.

<sup>2</sup> No more than 6 credits may be from courses below the 700 level. Students may take up to 6 credits of ENGLISH 749 and may take ENGLISH 711, ENGLISH 755, ENGLISH 854, and ENGLISH 855 up to three times with different topics.

<sup>3</sup> Electives may include up to 6 credits of ENGLISH 790. Please consult your advisor for guidance on enrolling in ENGLISH 790 and preparing for the MA project and exam.

### Additional Requirements

- A final project, which shall be a research paper appropriate to the student’s professional goals.
- An oral examination, usually lasting an hour and a half, which covers the final project.

### Plan C (Creative Writing)

A minimum of 30 credits, including:

Code	Title	Credits
Select 6 credits in 600- or 700-level literature courses (at least 3 credits at the 700 level)		6
Select one of the following:		6
ENGLISH 715 & ENGLISH 815	Narrative Craft and Theory: and Seminar in Fiction Writing:	
ENGLISH 716 & ENGLISH 816	Poetic Craft and Theory: and Seminar in Poetry Writing:	
Select 6 credits in writing courses at the 600 or 700 level		6
Select 12 credits of electives <sup>1</sup>		12
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Which may include up to 6 credits of ENGLISH 790.

### Additional Requirements

- No more than 12 credits may be earned in 600-level courses.
- A final project, which shall be a collection of fiction and/or poetry, a novel, or other substantial work of imaginative writing.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts representative of the student’s literary background and interests.

### Plan H (Media, Cinema, and Digital Studies)

Code	Title	Credits
<b>Core Courses</b>		
Take 15 credits across these courses:		15
ENGLISH 742	Media Studies	
ENGLISH 743	Film Theory and Criticism	
ENGLISH 876	Seminar in Media Studies:	
ENGLISH 877	Seminar in Film Studies:	
ENGLISH 887	Seminar in Digital Studies:	
<i>Proseminar (take 2 credits)</i>		2
ENGLISH 747	Proseminar in Media, Cinema, and Digital Studies	
<i>Electives: 7-12 credits electives at graduate level (can include 700 &amp; 701) *</i>		7-12
<i>Master's project: 1-6 credits of English 790 *</i>		1-6
<b>Total credits</b>		<b>30</b>

\* If students take more elective credits, then they may take fewer credits in the master’s project, or vice versa, so long as their total credits add up to 30. Students should consult the Coordinator to decide how many credits of the master’s project are recommended.

### Additional Requirements

- Master’s project, which shall be an original research paper of at least 30 pages which grows out of and significantly expands some aspect of the student’s research in media, cinema, and digital studies.

- An oral examination, usually lasting an hour and a half, which covers the final project.

## Additional Requirements

### Major Professor as Advisor

The student must have a Major Professor to advise and supervise the student’s work as specified in Graduate School regulations. The coordinator of the student’s concentration serves as an initial advisor.

### Regulations Concerning Final Projects and Oral Examinations

1. Students should consult with their advisors before completing 24 credits to determine a final project. Ordinarily, it is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student’s skills in research, critical analysis, argumentation, and prose style. For students in Plan C (Creative Writing), the project is a substantial portfolio, the exact character of which is determined in consultation with the student’s MA Committee. The project serves both as a concluding effort at the master’s level and also as an indication of a student’s potential for doctoral study.
2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be English Graduate Faculty. For students in Plans B and H, the MA Examining Committee administers the final Oral Examination, covering the project. For students in Plans A and C, the MA Examining Committee administers the final Oral Examination and a separate reading list of at least 30 texts, to be selected by the student and approved by the Committee.
3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 27 credits at the master’s level is applicable to the PhD 54 credit requirement.
4. The Examining Committee offers a recommendation regarding the student’s qualifications for further graduate study at the doctoral level. The Committee Chair puts this recommendation in writing and places it in the student’s academic file.
5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. No additional credits may be earned for the revision of the project after a failed examination. For further information regarding the MA project and examination, see the English Graduate Program Handbook.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## English, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

### Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if

they were not taken simultaneously. *All degree requirements of each component must be satisfied.*

- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

## MLIS/MA English

The MLIS/MA English Coordinated Degree Program prepares students for positions as humanities librarians.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

## Credits and Courses

Students interested in the English MA/MLIS program are expected to follow all the requirements and standards as described in this section of the Catalog with the following exceptions: the 21 credits required for the MA in English in the coordinated degree program are to be taken within the Department. Courses in related areas must be approved by the Director of Graduate Studies in English. For more information on this program, see the Library and Information Science page.

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## English Courses

Students in the MA/MLIS program may subtract 9 elective credits from their chosen concentration below.

Students admitted to the master's program earn the degree by completing a minimum of 30 credits of graduate coursework in English, writing a final project, and passing an oral examination at the conclusion of their coursework.

Although students must enroll initially in one of the four plans of study described below, students who demonstrate a capacity for doctoral work, and wish to earn a Ph.D. at UWM, are advised to proceed as rapidly as possible to the PhD program. Ordinarily students are not allowed to proceed beyond 30 credits without having been admitted to the doctoral program. No more than 27 credits earned at the master's level may be included in the 54 credits required for the Ph.D.

### Plan A (Literature and Cultural Theory)

A minimum of 30 credits, including:

Code	Title	Credits
ENGLISH 703	Introduction to Graduate Studies in Literature (must be taken in first semester)	1
ENGLISH 720	Modern Literary Theory	3
Select 9 credits in literature courses (at least 3 credits pre-1800)		9
Select 3 credits in 800-level seminar in literature or cultural theory		3
Select 6 credits in cultural theory		6
Select 8 credits of electives <sup>1</sup>		8
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Which may include up to 5 credits of ENGLISH 790.

### Additional Requirements

- A final project, which shall be a paper of at least 30 pages which grows out of and significantly expands some aspect of the student's literary studies.
- An oral examination, usually lasting an hour and a half, which covers the final project and a separate 30-book reading list.
- All credits must be 600-level or above, with no more than 6 credits at the 600 level. (ENGLISH 701 must be counted as an elective.)

### Plan B (Rhetoric and Composition)

A minimum of 30 credits, including:

Code	Title	Credits
<b>Required courses <sup>1</sup></b>		
ENGLISH 712	Theories in Public Rhetorics and Community Engagement:	3
ENGLISH 713	Research Methods in Rhetorics, Literacies, and Community Engagement:	3
ENGLISH 750	History of Rhetoric and Writing Studies:	3
<b>Select 21 credits of electives <sup>2</sup></b>		<b>21</b>
ENGLISH 427	Writing for Nonprofits	
ENGLISH 431G	Topics in Advanced Communications:	
ENGLISH 432	The Rhetoric of Argument	
ENGLISH 439	Information Design	
ENGLISH 443	Grant Writing	

ENGLISH 444	Technical Editing
ENGLISH 633G	Seminar in Rhetoric and Professional Writing:
ENGLISH 701	Writing Pedagogies
ENGLISH 711	Topics in Public and Professional Writing:
ENGLISH 749	Advanced Internship in Writing and Community Engagement
ENGLISH 755	Issues in Writing Research:
ENGLISH 790	Master's Project <sup>3</sup>
ENGLISH 854	Seminar in College Writing Pedagogy:
ENGLISH 855	Seminar in Public Rhetorics and Community Engagement:

**Total Credits** **30**

<sup>1</sup> ENGLISH 712, ENGLISH 713, and ENGLISH 750 may be taken twice with different topics with the second iteration counting toward Electives.

<sup>2</sup> No more than 6 credits may be from courses below the 700 level. Students may take up to 6 credits of ENGLISH 749 and may take ENGLISH 711, ENGLISH 755, ENGLISH 854, and ENGLISH 855 up to three times with different topics.

<sup>3</sup> Electives may include up to 6 credits of ENGLISH 790. Please consult your advisor for guidance on enrolling in ENGLISH 790 and preparing for the MA project and exam.

### Additional Requirements

- A final project, which shall be a research paper appropriate to the student's professional goals.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.

### Plan C (Creative Writing)

A minimum of 30 credits, including:

Code	Title	Credits
Select 6 credits in 600- or 700-level literature courses (at least 3 credits at the 700 level)		6
Select one of the following:		6
ENGLISH 715 & ENGLISH 815	Narrative Craft and Theory: and Seminar in Fiction Writing:	
ENGLISH 716 & ENGLISH 816	Poetic Craft and Theory: and Seminar in Poetry Writing:	
Select 6 credits in writing courses at the 600 or 700 level		6
Select 12 credits of electives <sup>1</sup>		12
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Which may include up to 6 credits of ENGLISH 790.

### Additional Requirements

- No more than 12 credits may be earned in 600-level courses.
- A final project, which shall be a collection of fiction and/or poetry, a novel, or other substantial work of imaginative writing.
- An oral examination, usually lasting an hour and a half, which covers the final project and a reading list of at least 30 texts representative of the student's literary background and interests.

### Plan H (Media, Cinema, and Digital Studies)

Code	Title	Credits
<b>Core Courses</b>		
Take 15 credits across these courses:		15
ENGLISH 742	Media Studies	
ENGLISH 743	Film Theory and Criticism (Subtitle)	
ENGLISH 876	Seminar in Media Studies:	
ENGLISH 877	Seminar in Film Studies:	
ENGLISH 887	Seminar in Digital Studies:	
<i>Proseminar (take 2 credits)</i>		2
ENGLISH 747	Proseminar in Media, Cinema, and Digital Studies	
<i>Electives: 7-12 credits electives at graduate level (can include 700 &amp; 701)</i>		7-12
<i>Master's project: 1-6 credits of English 790</i>		1-6
<b>Total credits</b>		<b>30</b>

\* If students take more elective credits, then they may take fewer credits in the master's project, or vice versa, so long as their total credits add up to 30. Students should consult the Coordinator to decide how many credits of the master's project are recommended.

## Additional Requirements

### Major Professor as Advisor

The student must have a Major Professor to advise and supervise the student's work as specified in Graduate School regulations. The coordinator of the student's concentration serves as an initial advisor.

### Final Project

A research paper or other project appropriate to the student's professional goals.

### Oral Examination

Usually lasting an hour and a half, the oral exam covers the final project and a reading list of at least 30 texts not listed in the project bibliography or works cited list.

### Regulations Concerning Final Projects and Oral Examinations

1. Students should consult with their advisors before completing 24 credits to determine a final project. Ordinarily, it is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, critical analysis, argumentation, and prose style. For students in Plan C (Creative Writing), the project is a substantial portfolio, the exact character of which is determined in consultation with the student's MA Committee. The project serves both as a concluding effort at the master's level and also as an indication of a student's potential for doctoral study.
2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be English Graduate Faculty. The MA Examining Committee administers the final Oral Examination, covering the project and a separate reading list of at least 30 texts, to be selected by the student and approved by the Committee.
3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should

remember that a maximum of 27 credits at the master's level is applicable to the PhD 54 credit requirement.

- The Examining Committee offers a recommendation regarding the student's qualifications for further graduate study at the doctoral level. The Committee Chair puts this recommendation in writing and places it in the student's academic file.
- Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. No additional credits may be earned for the revision of the project after a failed examination. For further information regarding the MA project and examination, see the English Graduate Program Handbook.

## Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## English, Minor

Minoring in English provides students with a wealth of intellectual and practical learning, a foundation to future success. In today's high-technology, interconnected world, the ability to read carefully, think imaginatively, understand others, and communicate across all types of platforms and formats is essential.

In small classes, our students learn to understand the power and possibilities of the English language across the centuries and around the world. Students learn to think critically, write persuasively, argue logically, delve deeply into history, and explore their own creativity. Students are challenged to examine their own assumptions, sharpen their writing, and learn how to read and understand even the most difficult works, from fiction to philosophy.

## Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The minor in English requires 18 credits, with at least 9 in residence at UWM, as follows:

Code	Title	Credits
ENGLISH 215	Introduction to English Studies	3
Select 3 of the following courses in Literature and Cultural Theory:		9
ENGLISH 301	Survey of English Literature, Beginnings to 1500	
ENGLISH 302	Survey of English Literature, 1500-1660	
ENGLISH 303	Survey of English Literature, 1660-1798	
ENGLISH 304	Survey of English Literature, 1798-1900	
ENGLISH 305	Survey of English Literature: 1900 to the Present	
ENGLISH 306	Survey of Irish Literature	
ENGLISH 307	Survey of American Literature to 1865	
ENGLISH 308	Survey of American Literature, 1865-1965	
ENGLISH 309	Survey of Contemporary American Literature	
ENGLISH 325	The Art of Fiction:	
ENGLISH 326	The Development of the Novel:	

ENGLISH 327	The Development of the Short Story
ENGLISH 329	Film and Literature
ENGLISH 332	LGBTQ+ Literature:
ENGLISH 341	The Development of Drama:
ENGLISH 342	Comedy:
ENGLISH 344	Modern Drama:
ENGLISH 360	The Art of Poetry:
ENGLISH 361	The Development of Poetry:
ENGLISH 363	Medieval Epic and Romance
ENGLISH 372	Survey of American Indian Literature
ENGLISH 373	Survey of Ethnic Minority Literature
ENGLISH 374	Survey of U.S. Latino/a Literature
ENGLISH 375	Survey of Asian American Literature
ENGLISH 376	Survey of African-American Literature to 1930
ENGLISH 377	Survey of African-American Literature, 1930 to the Present
ENGLISH 378	Survey of Current Literary and Cultural Theory
ENGLISH 381	World Literatures Written in English:
ENGLISH 452	Shakespeare
ENGLISH 454	Milton
ENGLISH 456	Writers in English Literature, 1500-1660:
ENGLISH 457	Writers in English Literature, 1660-1798:
ENGLISH 458	Writers in English Literature, 1798-1900:
ENGLISH 459	Writers in English Literature, 1900 to the Present:
ENGLISH 460	Writers in American Literature, 1500-1900:
ENGLISH 461	Writers in American Literature, 1900 to the Present:
ENGLISH 463	Writers in African-American Literature:
ENGLISH 465	Women Writers:
ENGLISH 504	Studies in Literature, 1660-1800:
ENGLISH 505	Studies in Literature, 1800-1900:
ENGLISH 514	Literature in Context:
ENGLISH 515	Literature and the Other Arts:
ENGLISH 517	Studies in African-American Literature:
ENGLISH 518	Studies in Irish Literature:
ENGLISH 520	Studies in American Indian Literature:
ENGLISH 522	Studies in World Literature Written in English:
ENGLISH 523	Studies in U.S. Latino/a Literature:
ENGLISH 524	Studies in Asian-American Literature:
ENGLISH 547	Studies in Theory and Criticism:
ENGLISH 622	Seminar in Irish Literature:
ENGLISH 623	Seminar in American Literature:
ENGLISH 624	Seminar in Modern Literature:
ENGLISH 625	Seminar in Literary History:
ENGLISH 626	Seminar in Critical Theory:
ENGLISH 627	Seminar in Literature and Culture:
ENGLISH 628	Seminar in Literature by Women:
ENGLISH 629	Seminar in Literature and Sexuality:

ENGLISH 630	Seminar in Literature and the Other Arts:	
ENGLISH 631	Seminar in African-American Literature:	
ENGLISH 632	Seminar in American Indian Literature:	
Select a minimum of 6 credits in additional English courses numbered 300 and above		6
<b>Total Credits</b>		<b>18</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## English, PhD

The Department of English offers master's and doctoral degrees in several areas of specialization: Literature and Cultural Theory; Rhetoric, Professional Writing, and Community Engagement; Creative Writing; and Media, Cinema, and Digital Studies. Students apply for admission to a specific area or concentration but are encouraged to take classes in others.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students in the UWM Master of Arts degree program in English must pass an M.A. exam and be recommended for admission into the Ph.D. program by their M.A. committee. An application for the Ph.D. program also must be submitted to the Graduate School.

Applicants with master's degrees from other institutions are evaluated on the basis of standard application materials:

- GPA
- Statement of Purpose
- Three Supporting Letters
- A Sample of Academic Writing

Such applicants are admitted to doctoral study provisionally and are required to complete an Academic Review within six weeks of finishing 12 credits.

For more specific information about departmental requirements for admission, please visit the English Department's Graduate Admissions Web page (<https://uwm.edu/english/graduate/admissions/>).

The Academic Review is a one- to two-hour meeting with three faculty members of the English Graduate Faculty. At least two members come from the student's concentration. The Review covers the student's academic progress in doctoral coursework, two unrevised course papers, and a list of 20-25 books chosen by the student in consultation with the reviewers. See the English Graduate Program Handbook for further details regarding the Academic Review. Applicants should contact the Graduate Program Office for additional information and deadlines.

## Credits and Courses

The Ph.D. program requires 54 credits beyond the B.A. (56 for Literature and Cultural Theory), including no more than 27 credits earned at the master's level. Course distribution requirements vary according to the doctoral concentration a student enters.

### Doctoral Concentration

Students applying to the English doctoral program must indicate their preference for one of the following doctoral concentrations: Literature and Cultural Theory; Public Rhetorics and Community Engagement; Creative Writing; Professional and Technical Writing; Media, Cinema, and Digital Studies. The Director of Graduate Studies and a Program Coordinator for each concentration provide initial advising for the student in course enrollment and in selecting a Major Professor for long-term advising. Although a continuing doctoral student can change concentrations, such changes require approval by the Coordinator of the new concentration and the Director of Graduate Studies, and may require a substantial amount of additional coursework.

Because course requirements change frequently, students should regularly consult with Program Coordinators or the Director of Graduate Studies regarding doctoral concentration requirements. The following listings reflect current curricular requirements:

**Admission to the English PhD program under Plan G (Professional Writing) is suspended as of Fall 2023.**

### Literature and Cultural Theory

Code	Title	Credits
Select 9 credits in literature courses outside the field of emphasis (at least 3 credits pre-1800)		9
Select 9 credits in cultural theory		9
Select 9 credits in field of emphasis <sup>1</sup>		9
Select one of the following:		3
ENGLISH/HIST/ MALLT 740	Approaches to the Modern I	
ENGLISH/HIST/ MALLT 741	Approaches to the Modern II	
Select 24 credits of electives		24
ENGLISH 703	Introduction to Graduate Studies in Literature (taken during the first semester)	1

ENGLISH 820	Seminar in Advanced Topics in Literary Criticism and Research:	1
<b>Total Credits</b>		<b>56</b>

<sup>1</sup> Primary field of emphasis must be declared prior to submitting the prelim proposal and field lists to the Graduate Program Committee. Field of emphasis will be selected from among those designated by Plan A to be available on the Literature and Cultural Theory Web page.

All credits must be 600-level or above, with no more than 9 credits at the 600 level. Doctoral students may not accumulate more than 6 credits of independent study. (ENGLISH 701 must be counted as elective.)

## Public Rhetorics and Community Engagement

Code	Title	Credits
<b>Required Courses</b>		
ENGLISH 701	Writing Pedagogies	3
ENGLISH 712	Theories in Public Rhetorics and Community Engagement:	3
ENGLISH 713	Research Methods in Rhetorics, Literacies, and Community Engagement:	3
ENGLISH 750	History of Rhetoric and Writing Studies:	3
Select 24 credits from the list of core courses below (no more than 6 credits from courses below the 700 level)		24
ENGLISH 427	Writing for Nonprofits	
ENGLISH 431	Topics in Advanced Communications:	
ENGLISH 432	The Rhetoric of Argument	
ENGLISH 439	Information Design	
ENGLISH 443	Grant Writing	
ENGLISH 444	Technical Editing	
ENGLISH 633	Seminar in Rhetoric and Professional Writing:	
ENGLISH 711	Topics in Public and Professional Writing:	
ENGLISH 749	Advanced Internship in Writing and Community Engagement	
ENGLISH 755	Issues in Writing Research:	
ENGLISH 854	Seminar in College Writing Pedagogy:	
ENGLISH 855	Seminar in Public Rhetorics and Community Engagement:	
Select 18 credits of electives		18
<b>Total Credits</b>		<b>54</b>

## Creative Writing

Code	Title	Credits
Select one of the following:		6
ENGLISH 715 & ENGLISH 815	Narrative Craft and Theory: and Seminar in Fiction Writing:	
ENGLISH 716 & ENGLISH 816	Poetic Craft and Theory: and Seminar in Poetry Writing:	
Select 21 credits at the graduate level in literature and cultural theory, rhetoric and composition, professional writing, and/or media, cinema, and digital studies		21
Select 15 credits in creative writing 700-level or above courses		15

Select 12 credits of electives	12
<b>Total Credits</b>	<b>54</b>

All credits must be 600-level or above, with no more than 6 credits at the 600 level.

Doctoral students may not accumulate more than 6 credits of ENGLISH 999.

## Professional Writing

**Admission to the English PhD program under Plan G (Professional Writing) is suspended as of Fall 2023.**

Code	Title	Credits
<b>Core</b>		
ENGLISH 706	Seminar in Professional Writing Theory and Pedagogy	3
ENGLISH 712	Theories in Public Rhetorics and Community Engagement:	3
ENGLISH 713	Research Methods in Rhetorics, Literacies, and Community Engagement:	3

### Professional Writing

Select 6 credits in English 700-level or 400-level U/G courses	6
Select 15 credits in English 800-level courses (with the advisor's approval, a student may take credits in related areas)	15

### Electives

Select 24 credits of electives	24
<b>Total Credits</b>	<b>54</b>

## Media, Cinema, and Digital Studies

Code	Title	Credits
<b>Core Courses</b>		
<i>Take 15 credits across these courses:</i>		15
ENGLISH 742	Media Studies	
ENGLISH 743	Film Theory and Criticism	
ENGLISH 876	Seminar in Media Studies:	
ENGLISH 877	Seminar in Film Studies:	
ENGLISH 887	Seminar in Digital Studies:	
6 credits in 700- or 800- level courses in English or related programs		6
<i>Proseminar (take 2 credits)</i>		2
ENGLISH 747	Proseminar in Media, Cinema, and Digital Studies	
<b>Electives</b>		31
31 credits of electives at the graduate level (may include ENGLISH 700 & ENGLISH 701 and up to 2 additional credits of ENGLISH 747)		
<b>Total Credits</b>		<b>54</b>

## Additional Requirements

### General Restrictions

Doctoral students may not accumulate more than 12 credits in U/G courses and not more than 6 credits in independent study without the approval of the Director of Graduate Studies. No more than 18 credits may be taken in courses outside the Department.



## Advising

Students are required to consult periodically with their Major Professor. The Major Professor helps the student to define an area of special interest within the concentration for the preliminary examination. The Major Professor also assists the student in the selection of appropriate coursework and may chair the Preliminary Examination Committee.

## Foreign Language Requirement

All Ph.D. candidates are required to demonstrate proficiency (reading knowledge) in a foreign language. The choice of a language must be approved by the student's advisor. If a student has not met this requirement in other ways (see English Graduate Program Handbook), a student must pass a two-hour written examination in the translation of a piece of literature or criticism. A student may use a dictionary and/or grammar book. The exam must be arranged in advance with the Director of Graduate Studies and must be taken before the preliminary examination. If a student's Major Professor considers proficiency in more than one language necessary to the student's specific plan of study, exams in more than one language may be required. The exam may be retaken until proficiency is attained.

## Residence

The student must meet minimum Graduate School residence requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/#residence>).

## Doctoral Preliminary Examination

The doctoral preliminary examination consists of a written examination and an oral examination designed to demonstrate the breadth of a student's knowledge and the ability to conduct advanced research in one or more areas of study. The written and oral examinations draw from field bibliographies with rationale (500 word maximum) prepared by the student and approved by the student's preliminary examination committee and the advisory committee of the student's plan.

The written examination must be at least eight hours long, and it is frequently taken as a three-day, take-home, open book exam. It may be taken at the University or at home, if the committee agrees on the location. An oral exam of two hours covering issues raised during the written exam and/or focusing on the proposed dissertation must follow the written exam within 7-10 days.

Students take the preliminary exam after completing all doctoral coursework or with no more than three credits of doctoral coursework remaining. Students cannot take the exam if they have any incomplete or unreported grades or a GPA less than 3.0. The exam must be finished within one semester after all coursework is completed, excluding summer session. Students may receive a one semester extension for additional coursework from the Director of Graduate Studies. Students who fail the preliminary examination may not proceed to the dissertation. The exam may be retaken only once. See the English Graduate Program Handbook (<http://uwm.edu/english/graduate/graduate-resources/grad-handbook/>) or the Director of Graduate Studies for specific guidelines for governing the preliminary examination process.

## Dissertation

The dissertation topic, together with a brief prospectus, must be approved by the Graduate Policy Committee. The student's major professor or a member of the dissertation committee must present the topic and prospectus to the Graduate Policy Committee. See the Director of Graduate Studies and the English Graduate Program Handbook (<http://>

[uwm.edu/english/graduate/graduate-resources/grad-handbook/](http://uwm.edu/english/graduate/graduate-resources/grad-handbook/)) for specific guidelines for selecting a doctoral committee and preparing the dissertation proposal. The Department considers 200 pages a reasonable length for the dissertation.

## Dissertation Defense

The completed dissertation is subject to an oral defense, to be arranged by the Coordinator according to Graduate School regulations. A copy of the dissertation is kept in the Department office.

## Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information see the Graduate School PhD requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>).

## English, Writing, Editing, and Publishing Minor

Whatever your major, the English Minor in Writing, Editing, and Publishing can add significantly to your career preparation. This highly flexible option lets you choose from among a broad array of classes ranging from professional and technical writing to creative writing, writing about literature and culture, magazine editing, document design, and writing about film and media. You will learn about and practice diverse genres, gaining skill in composing and revising your work in professional formats, including multimedia and web platforms as well as in traditional print publications. Students can mix professional courses with creative writing classes as they pursue development of their own interests and expressive potential.

## Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The College requires that students complete at least 9 credits of the minor in upper-division (numbered 300 or above) courses at UWM.

Students already majoring in English may not be awarded this minor in addition to their major; a student may select this minor or a major in English, but not both.

Code	Title	Credits
<b>Requirements</b>		
ENGLISH 430	Advanced Writing Workshop	3
<b>Electives</b>		
<i>Select 2 lower division courses for a total of 6 credits from the list below.</i>		6
ENGLISH 201	Strategies for Academic Writing	
ENGLISH 205	Business Writing	
ENGLISH 207	Health Science Writing	
ENGLISH 214	Writing in the Professions:	
ENGLISH 206	Technical Writing	
ENGLISH 233	Introduction to Creative Writing	
ENGLISH 240	Rhetoric, Writing, and Culture:	
ENGLISH 286	Writing about Film and Television	

Select 3 upper division courses for a total of 9 credits.

ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century
ENGLISH 414	Special Topics in Creative Writing:
ENGLISH 415	Fiction Workshop
ENGLISH 416	Poetry Workshop
ENGLISH 418	Literary Journal Production
ENGLISH 426	Professional and Technical Communications Research
ENGLISH 428	Strategic Writing for Organizations
ENGLISH 431	Topics in Advanced Communications:
ENGLISH 432	The Rhetoric of Argument
ENGLISH 433	Creative Nonfiction for Publication
ENGLISH 434	Editing and Publishing
ENGLISH 435	Rhetoric and Professional Writing
ENGLISH 436	Technical Documentation
ENGLISH 438	Advanced Research Writing
ENGLISH 439	Information Design
ENGLISH 443	Grant Writing
ENGLISH 444	Technical Editing
ENGLISH 445	The Composing Process:
ENGLISH 448	Technical Communications Theory and Practice
ENGLISH 449	Internship in the Humanities
ENGLISH 615	Advanced Workshop in Fiction
ENGLISH 616	Advanced Workshop in Poetry:
ENGLISH 633	Seminar in Rhetoric and Professional Writing:

**Total Credits**

**18**

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Comparative Ethnic Studies

The Comparative Ethnic Studies Program offers an undergraduate major through the Committee Interdisciplinary Major, an undergraduate

certificate in Comparative Ethnic Studies, and an undergraduate certificate in Hmong Diaspora Studies.

## Programs

- Committee Interdisciplinary Major, BA: Comparative Ethnic Studies (p. 1026)
- Comparative Ethnic Studies, Undergraduate Certificate (p. 1031)
- Hmong Diaspora Studies, Undergraduate Certificate (p. 1033)

## Committee Interdisciplinary Major, BA: Comparative Ethnic Studies

Comparative Ethnic Studies is an interdisciplinary field that examines issues of social identity and power, in contemporary and historical contexts. The field centers on questions of race, gender, and sexuality. Students are free to select from a range of courses in the Ethnic Studies program, and to include coursework they do from around the university their academic programs.

Unique to UWM, our program offers courses covering the Hmong diaspora. Wisconsin is home to the third largest Hmong American population in the US, making UWM a great place to learn about this population.

The Committee Interdisciplinary Major with a focus in Comparative Ethnic Studies is also one of a handful of majors that requires an internship prior to graduation, thereby ensuring that students leave college with hands-on experience from the local community. The program is administered by the College of Letters and Science interdepartmental Comparative Ethnic Studies Advisory Committee.

A certificate in Comparative Ethnic Studies is also available for students seeking something closer to a minor.

## Requirements

Code	Title	Credits
	BA Degree Requirements (p. 1026)	58-77
	Major Requirements (p. 1028)	33
	General Electives	10-29
<b>Total Credits</b>		<b>120</b>

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
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### Oral and Written Communication

#### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)	
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#### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits	3
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### Humanities

Select 6 credits	6
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### Social Sciences

Select 6 credits	6
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### Natural Sciences

Select 6 credits (at least two courses including one lab)	6
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### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	

BIO SCI 465	Biostatistics
ECON 210	Economic Statistics
GEOG 247	Quantitative Analysis in Geography
HIST 595	The Quantitative Analysis of Historical Data
MTHSTAT 215	Elementary Statistical Analysis
PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is *NOT* the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Major Requirements

The Committee Interdisciplinary Major submajor in Comparative Ethnic Studies requires completion of at least 33 credits in approved Comparative Ethnic Studies and Comparative Ethnic-related courses. Students may count towards the major a maximum of 9 credits in a single curricular area outside of Comparative Ethnic Studies. A minimum of 18 credits must be completed in L&S courses, and at least 15 credits must be at the upper-division level (courses numbered 300 and above)

taken in residence at UWM. Completion of the College's research experience in the major is required. ETHNIC 550 or another suitable course approved by the coordinator satisfies this requirement. Students must attain at least a 2.0 GPA on all major credits attempted at UWM. In addition, the College requires that students earn a 2.0 GPA on all credits in the major, including transfer work.

The following are required:

Code	Title	Credits
<b>Survey</b>		
ETHNIC 101	The Multi-Racial Origins of American Cultures	3
ETHNIC 102	Transnational Migrations: People on the Move	3
<b>Comparative Methods</b>		
Select at least 3 credits from the following: <sup>1</sup>		3
ETHNIC 275	Queer Migrations	
ETHNIC 350	Advanced Topics in Comparative Ethnic Studies: (subtitle)	
*** 150	Multicultural America <sup>2</sup>	
<b>Track Electives</b>		
Select option A or B below		18
<b>Internship</b>		
ETHNIC 489	Internship in Ethnic Studies, Upper Division	3
or HMONG 489	Internship in Hmong Studies, Upper Division	
<b>Capstone</b>		
ETHNIC 550	Senior Seminar in Comparative Ethnic Studies:	3
<b>Total Credits</b>		<b>33</b>

<sup>1</sup> Students may count a maximum of three courses from this group toward the major requirements.

<sup>2</sup> Offered in the following curricular areas: Anthropology, Art, English, Film, History, Sociology, Urban Studies, Women's and Gender Studies.

## Track Electives

### A. Hmong Studies

Code	Title	Credits
ETHNIC/HMONG 265	Hmong Americans: History, Culture, and Contemporary Life	3
ETHNIC 250	Selected Topics in Ethnic Studies:	3
HIST 287	The Vietnam War	3
Select nine additional credits in consultation with the Program Coordinator		9
<b>Total Credits</b>		<b>18</b>

### B. Student-Created Focus

Students complete 18 credits selected in consultation with the coordinator from the list of approved courses.

## Approved Electives

Code	Title	Credits
ANTHRO 203	Indigenous Religions	3
AFRIC 100	Black Reality: Survey of African-American Society	3

AFRIC 102	Survey of African-American Literature	3
AFRIC 111	Introduction to African-American History to 1865	3
AFRIC 112	Introduction to African-American History, 1865 to the Present	3
AFRIC 125	Economics of the Black Community	3
AFRIC 163	African-American Concept of Self	3
AFRIC 205	The Poetry of African, African-American, and Caribbean Writers	3
AFRIC 210	The African-American Novel	3
AFRIC 215	Introduction to Black Social and Cultural Traditions	3
AFRIC 235	African Americans and South Africa	3
AFRIC 250	Black Women and White Women in the Contemporary United States	3
AFRIC 261	Survey of African-American Political Philosophy	3
AFRIC 300	Urban Violence	3
AFRIC 314	The School in African-American Life	3
AFRIC 319	African American Urban History	3
AFRIC 320	Black Cultures in Latin America and the Caribbean	3
AFRIC 322	Order and Disorder: The Quest for Social Justice	3
AFRIC 334	Survey of Black American and Black Brazilian Societies	3
AFRIC 341	Black Politics and City Government	3
AFRIC 344	Global Black Social Movements	3
AFRIC 350	The Black Family	3
AFRIC 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
AFRIC 369	Black Images and Mass Media	3
AFRIC 372	African-American Literary Movements: The Harlem Renaissance	3
AFRIC 411	Change in African-American Communities	3
AFRIC 412	Blacks and the United States Constitution	3
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	3
AFRIC 416	Race and Social Justice in the United States	3
AFRIC 417	Race, Class and Gender in Southern Africa	3
AFRIC 418	Race, Class, and Gender in Latin America and the Caribbean	3
AFRIC 420	The Political Economy of Slavery	3
AFRIC 450	Cultural Transmissions: Black Africa and Black America	3
AFRIC 451	Rites of Passage in Black Societies	3
ANTHRO 213	American Indian Peoples of Wisconsin	3
ANTHRO 225	The Aztec Empire	3
ANTHRO 310	Archaeology of Middle America	3
ANTHRO 311	The World of the Ancient Maya	3
ANTHRO 314	American Indian Societies and Cultures	3

ANTHRO 320	Peoples and Cultures of Africa	3	HIST 176	East Asian Civilization Since 1600	3
ANTHRO 322	Europe in Anthropological Perspective	3	HIST 180	Latin American Society and Culture	3
ANTHRO 325	Japanese Culture and Society	3	HIST 210	The Twentieth Century: A Global History	3
ANTHRO 326	Peoples and Cultures of South Asia	3	HIST 215	History of Capitalism	3
ANTHRO 328	Comparative Studies of Music, Race, and Gender in Nationalism	3	HIST 229	History of Race, Science, and Medicine in the United States	3
ANTHRO 335	American Indians of the Southeast	3	HIST 243	History of Women in American Society	3
ANTHRO 355	Globalization, Culture, and Environment	3	HIST 262	North American Indian History to 1887	3
ANTHRO 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3	HIST 263	North American Indian History Since 1887	3
ANTHRO 442	Humanitarianism in Global Perspective	3	HIST 267	The History of Latinos in the United States	3
ANTHRO 443	Medicine and Pharmaceuticals in the Global Age	3	HIST 268	History of the American West	3
ANTHRO 447	The Global Politics of Human Rights	3	HIST 269	Asian Americans in Historical Perspective	3
COMPLIT 365	Literatures and Cultures of the Americas:	3	HIST 271	The 1960s in the United States: A Cultural History	3
ENGLISH 209	Language in the United States	3	HIST 287	The Vietnam War	3
ENGLISH 210	Global Englishes	3	HIST 358	The Jews of Modern Europe: History and Culture	3
ENGLISH 276	Introduction to American Indian Literature:	3	HIST 363	Germany: Hitler and the Nazi Dictatorship	3
ENGLISH 277	Introduction to Ethnic Minority Literature:	3	HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3
ENGLISH 278	Introduction to World Literatures Written in English:	3	HIST 379	Introduction to Jewish History	3
ENGLISH 279	Introduction to U.S. Latino/a Literature:	3	HIST 380	Buddhism: A Cultural History	3
ENGLISH 280	Introduction to Asian-American Literature:	3	HIST 386	Africans in World History: Communities, Cultures, and Ideas	3
ENGLISH 281	Introduction to African-American Literature:	3	HIST 387	Colonization in Africa: A History of Resistance and Adaptation	3
ENGLISH 285	Modern Irish Language and Literature in Translation	3	HIST 392	The History of Southern Africa	3
ENGLISH 332	LGBTQ+ Literature:	3	HIST 393	History of Mexico	3
ENGLISH 372	Survey of American Indian Literature	3	HIST 394	History of Japan to 1600	3
ENGLISH 373	Survey of Ethnic Minority Literature	3	HIST 395	History of Japan Since 1600	3
ENGLISH 374	Survey of U.S. Latino/a Literature	3	HIST 435	Ethnic America: To 1880	3
ENGLISH 375	Survey of Asian American Literature	3	HIST 436	Immigrant America Since 1880	3
ENGLISH 376	Survey of African-American Literature to 1930	3	HIST 445	African Americans from Slavery to Freedom	3
ENGLISH 377	Survey of African-American Literature, 1930 to the Present	3	HIST 446	African Americans Since the Civil War	3
ENGLISH 463	Writers in African-American Literature:	3	HIST 460	The History of Poverty in America	3
ENGLISH 517	Studies in African-American Literature:	3	HIST 463	History of the American City	3
ENGLISH 518	Studies in Irish Literature:	3	HIST 468	The American Feminist Movement	3
ENGLISH 520	Studies in American Indian Literature:	3	HIST 473	History of Wisconsin Indians	3
ENGLISH 522	Studies in World Literature Written in English:	3	HIST 474	Topics in North American Indian History:	3
ENGLISH 523	Studies in U.S. Latino/a Literature:	3	JAMS 111	Gender and the Media	3
ENGLISH 524	Studies in Asian-American Literature:	3	LINGUIS 430	Language and Society	3
ENGLISH 631	Seminar in African-American Literature:	3	LINGUIS 432	Urban Dialects	3
ENGLISH 632	Seminar in American Indian Literature:	3	POL SCI 215	Ethnicity, Religion and Race in American Politics	3
GEOG 114	Geography of Race in the United States	3	POL SCI 388	Latino Politics	3
GEOG 309	Nationalities and Nations of the World	3	PSYCH 578	Psychology of Race, Ethnicity, and Health	3
GEOG 410	Gendered Geographies	3			
HIST 175	East Asian Civilization to 1600	3			

SOCIOL 233	Social Inequality in the United States	3
SOCIOL 235	Social Change in the Global Economy	3
SOCIOL 321	Contemporary Issues of the American Indian	3
SOCIOL 323	Perspectives on Latino Communities	3
SOCIOL 324	Race and Ethnicity in Global Contexts	3

## Learning Outcomes

Students who complete the major will be able to do the following:

- Discuss the complexities of social identity for public policy as well as cultural formations;
- Provide interdisciplinary explanations for historical and contemporary conflicts based in race, ethnicity, gender, and sexuality; and
- Identify and assess different theoretical frameworks for explaining social change and relationships between actors, institutions, and ideas of identity.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned

advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Comparative Ethnic Studies, Undergraduate Certificate

Comparative Ethnic Studies is an interdisciplinary field that examines issues of social identity and power, in contemporary and historical contexts. The field centers on questions of race, gender, and sexuality. Students are free to select from a range of courses in the Ethnic Studies program, and to include coursework they do from around the university their academic programs. The program is administered by the College of Letters and Science interdepartmental Comparative Ethnic Studies Advisory Committee.

Unique to UWM, our program offers courses covering the Hmong diaspora. Wisconsin is home to the third largest Hmong American population in the U.S., making UWM a great place to learn about this population.

The Undergraduate Certificate program in Comparative Ethnic Studies is also available for students seeking something closer to a minor. Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

## Eligibility

The Certificate in Comparative Ethnic Studies is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements.

Students who complete the certificate as part of their undergraduate work are awarded the certificate at the time of graduation. Students already possessing a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements.

## Requirements

To receive the certificate, the student must earn a minimum of 21 credits as stated below, at least 12 from UWM, with a grade point average of 2.750 or better. A minimum of 9 credits must be earned in upper-division (numbered 300 and above) courses. At least 18 credits must be taken in the Ethnic curricular area; the other 3 credits may be selected from the approved list of elective courses. Students may discuss their specific needs and programs of study with the program coordinator, Rachel Buff. Substitutions for credits in the Ethnic curricular area are subject to the approval of the Program Coordinator.

Students interested in the undergraduate certificate should register with the Comparative Ethnic Studies Program Coordinator by the beginning of their junior year, at the latest.

Courses for the certificate must include the following:

Code	Title	Credits
<b>Required</b>		
ETHNIC 101	The Multi-Racial Origins of American Cultures	3
ETHNIC 102	Transnational Migrations: People on the Move	3
ETHNIC 550	Senior Seminar in Comparative Ethnic Studies:	3
<b>Electives</b>		
Select 12 credits from approved electives table below.		12
<b>Total Credits</b>		<b>21</b>

## Approved Electives

Code	Title	Credits
AFRIC 100	Black Reality: Survey of African-American Society	3
AFRIC 102	Survey of African-American Literature	3
AFRIC 111	Introduction to African-American History to 1865	3
AFRIC 112	Introduction to African-American History, 1865 to the Present	3
AFRIC 125	Economics of the Black Community	3
AFRIC 163	African-American Concept of Self	3
AFRIC 210	The African-American Novel	3
AFRIC 228	Introduction to Black Political Economy	3
AFRIC 250	Black Women and White Women in the Contemporary United States	3
AFRIC 261	Survey of African-American Political Philosophy	3
AFRIC 265	Psychological Effects of Racism	3
AFRIC 300	Urban Violence	3
AFRIC 312	The Church in African-American Life	3
AFRIC 314	The School in African-American Life	3
AFRIC 319	African American Urban History	3

AIS 105	Anishinaabe Ethnobotany: Plants in Anishinaabe Culture	3
AFRIC 321	Black Workers in the 21st Century	3
AFRIC 322	Order and Disorder: The Quest for Social Justice	3
AFRIC 326	Economic Problems of Black Business	3
AFRIC 341	Black Politics and City Government	3
AFRIC 350	The Black Family	3
AFRIC 369	Black Images and Mass Media	3
AFRIC 372	African-American Literary Movements: The Harlem Renaissance	3
AFRIC 411	Change in African-American Communities	3
AFRIC 412	Blacks and the United States Constitution	3
AFRIC 416	Race and Social Justice in the United States	3
AFRIC 420	The Political Economy of Slavery	3
AIS 106	Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy	3
AIS 262	North American Indian History to 1887	3
AIS 263	North American Indian History Since 1887	3
AIS 276	Introduction to American Indian Literature:	3
AIS 314	American Indian Societies and Cultures	3
AIS 321	Contemporary Issues of the American Indian	3
AIS 372	Survey of American Indian Literature	3
AIS 473	History of Wisconsin Indians	3
AIS 474	Topics in North American Indian History:	3
AIS 520	Studies in American Indian Literature:	3
ANTHRO 150	Multicultural America	3
ANTHRO 213	American Indian Peoples of Wisconsin	3
ANTHRO 314	American Indian Societies and Cultures	3
ANTHRO 335	American Indians of the Southeast	3
ANTHRO 565	Seminar in Regional Archaeology: (Great Lakes Late Prehistory)	3
ANTHRO 641	Seminar in Anthropology: (American Indian Material Culture)	3
ARABIC 164	Arabs and Islam in America	3
ARTHIST 355	American Folk Art	3
ECON 248	Economics of Discrimination	3
ED POL 561	Education Issues in American Indian Communities	3
ED POL 579	Current Topics in Cultural Foundations of Education: (Anti-Racist Education)	1-6
ED POL 621	History of Native Education and Policy Development	3
ED POL 625	Race Relations in Education	3
ENGLISH 150	Multicultural America	3
ENGLISH 276	Introduction to American Indian Literature:	3



ENGLISH 277	Introduction to Ethnic Minority Literature:	3
ENGLISH 280	Introduction to Asian-American Literature:	3
ENGLISH 281	Introduction to African-American Literature:	3
ENGLISH 372	Survey of American Indian Literature	3
ENGLISH 373	Survey of Ethnic Minority Literature	3
ENGLISH 374	Survey of U.S. Latino/a Literature	3
ENGLISH 375	Survey of Asian American Literature	3
ENGLISH 376	Survey of African-American Literature to 1930	3
ENGLISH 377	Survey of African-American Literature, 1930 to the Present	3
ENGLISH 463	Writers in African-American Literature:	3
ENGLISH 517	Studies in African-American Literature:	3
ENGLISH 520	Studies in American Indian Literature:	3
ENGLISH 523	Studies in U.S. Latino/a Literature:	3
ENGLISH 524	Studies in Asian-American Literature:	3
ENGLISH 624	Seminar in Modern Literature: (After Beckett - Contemporary Anglo-American Drama)	3
ENGLISH 631	Seminar in African-American Literature:	3
ENGLISH 632	Seminar in American Indian Literature:	3
FILM 150	Multicultural America	3
GEOG 114	Geography of Race in the United States	3
GERMAN 341	Undergrad Seminar in German-American Studies: Germans in Wisconsin & Milwaukee	3
HIST 150	Multicultural America	3
HIST 229	History of Race, Science, and Medicine in the United States	3
HIST 262	North American Indian History to 1887	3
HIST 263	North American Indian History Since 1887	3
HIST 267	The History of Latinos in the United States	3
HIST 269	Asian Americans in Historical Perspective	3
HIST 404	Topics in American History:	3
HIST 435	Ethnic America: To 1880	3
HIST 436	Immigrant America Since 1880	3
HIST 445	African Americans from Slavery to Freedom	3
HIST 446	African Americans Since the Civil War	3
HIST 473	History of Wisconsin Indians	3
HIST 474	Topics in North American Indian History:	3
HMONG 265	Hmong Americans: History, Culture, and Contemporary Life	3
ITALIAN 242	Topics in Italian American Studies:	3
ITALIAN 243	Topics in Italian American Film:	3
JEWISH 101	Jewish Culture in America: History, Literature, Film	3
JAMS 450	Race and Ethnicity in the Media	3

LATINX 101	Introduction to Latino Studies	3
PHILOS 271	Philosophical Traditions: (Western Great Lakes American Indian Philosophy)	3
POL SCI 215	Ethnicity, Religion and Race in American Politics	3
SOCIOL 224	Race and Ethnicity in the United States	3
SOCIOL 321	Contemporary Issues of the American Indian	3
SOCIOL 323	Perspectives on Latino Communities	3
URB STD 360	Perspectives on the Urban Scene: (The History of Milwaukee's Ethnic and Racial Communities)	3
WGS 150	Multicultural America	3

## Hmong Diaspora Studies, Undergraduate Certificate

The Hmong Diaspora Studies undergraduate certificate program provides students with a multidisciplinary perspective on Hmong history, culture, and contemporary life.

Wisconsin and the upper Midwest are home to large concentrations of Hmong Americans, making this area of study particularly relevant to UWM students. Political unrest and international wars forced many Hmong from Laos to leave their native land during the last quarter of the twentieth century and seek refuge in foreign nations. Hmong populations can now be found throughout the Americas, Asia, Europe, and Oceania. Each area has its own distinct social, cultural, economic, and political conditions.

The certificate program includes courses about Hmong history, language, and culture, as well as classes that discuss the societal differences encountered by Hmong people. The certificate complements many different types of majors and is valuable for individuals who intend to work with the Hmong population in careers such as social work, education, public administration, law, journalism, international affairs, travel and hospitality, and global business.

UWM students have in recent years traveled to Laos, Thailand, and Vietnam to complement their classroom experience with a study abroad trip.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

### Eligibility

The Hmong Diaspora Studies Undergraduate Certificate is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted as a non-degree student, the individual must meet regular UWM admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and

non-degree students will receive the certificate upon completion of the program requirements.

## Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits in approved Hmong diaspora studies courses as indicated below. Of the 18 required credits, 12 must be taken in the College of Letters and Science, and at least six of them should be at the 300 level or above. No more than nine credits from any one curricular area may count toward the certificate. Twelve of the 18 required credits must be earned in residence at UWM. Of these 12 credits, nine must be taken at the 300 level or above. A maximum of six credits in independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on Hmong cultural groups may be accepted with the approval of the certificate program committee. Other courses that are not on the lists below but relevant to the study of Hmong people in the US and other parts of the world may be accepted with the approval of the certificate program committee.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements with the approval of the certificate program committee. Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the creation of the program may have their credits applied retroactively to the certificate program.

Code	Title	Credits
<b>Required</b>		
ETHNIC/HMONG 265	Hmong Americans: History, Culture, and Contemporary Life	3
Select 1 semester of Hmong language and/or literacy		3
Select one of the following:		3
HIST 287	The Vietnam War	
HIST 402	Topics in Asian History: (with appropriate subtitle; consult Program Coordinator)	
<b>Electives</b>		
Select 9 credits from the list of approved courses <sup>1</sup>		9
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> At least 6 of which must be selected from courses with a primary focus on Hmong cultural groups.

## Approved Elective Courses

### Primary Focus on Hmong Cultural Groups

Code	Title	Credits
AMLLC 103	First Semester of an Uncommonly-Taught Language: (Hmong)	1-4
AMLLC 104	Second Semester of an Uncommonly-Taught Language: (Hmong)	3-4
AMLLC 203	Third Semester of an Uncommonly-Taught Language: (Hmong)	3-4
AMLLC 204	Fourth Semester of an Uncommonly-Taught Language: (Hmong)	3-4
ENGLISH 192	First-Year Seminar: (Hmong American Life Stories)	3

ENGLISH 277	Introduction to Ethnic Minority Literature: (Hmong-American Literature)	3
ETHNIC 265	Hmong Americans: History, Culture, and Contemporary Life	3
ETHNIC 350	Advanced Topics in Comparative Ethnic Studies: (Hmong Diasporic Communities)	3
ETHNIC 299	Ad Hoc: (with Hmong-related subtitle)	1-6
ETHNIC 499	Ad Hoc: (with Hmong-related subtitle)	1-6
ETHNIC 699	Advanced Independent Work	1-3
HIST 297	Study Abroad: (Exploring Laos – History and Culture)	1-12
HIST 377	Modern China (Exploring Laos – History and Culture)	3
HMONG XXX	All courses in the Hmong curricular area	

## Secondary Focus on Hmong Cultural Groups

Code	Title	Credits
ANTHRO 150	Multicultural America <sup>1</sup>	3
ANTHRO 250	Women's Roles in Cross-Cultural Perspective	3
ARTHIST 386	Art, Ritual, and Ethnicity of China	3
ENGLISH 150	Multicultural America <sup>1</sup>	3
ENGLISH 192	First-Year Seminar: (Southeast Asian American Life Stories)	3
ETHNIC 102	Transnational Migrations: People on the Move	3
ETHNIC 250	Selected Topics in Ethnic Studies: (with appropriate subtitle)	3
HIST 150	Multicultural America <sup>1</sup>	3
HIST 269	Asian Americans in Historical Perspective	3
HIST 287	The Vietnam War (if not selected above)	3
HIST 372	Topics in Global History: (with appropriate subtitle)	3
HIST 402	Topics in Asian History: (with appropriate subtitle) (if not selected above)	3
HIST 436	Immigrant America Since 1880	3
WGS 150	Multicultural America <sup>1</sup>	3

<sup>1</sup> Students may count credits in just one of these courses toward the certificate.

## Film Studies

The College of Letters and Science offers a unique major and minor in Film Studies. Our interdisciplinary programs are founded on a broad, international perspective on film, television, popular culture, and media forms, texts, and global industries.

After completing the required introductory courses in history, formal analysis, and theory, film studies students explore a variety of advanced topics including world cinema, the internet and media culture, theories of mass culture, film and literature, writing on film and television, classical and contemporary film theory, television criticism and theory, film genres,

and other special topic courses to suit their interests and concentrations. In addition to courses stressing cultural, historical, and theoretical approaches, students can take advantage of a range of resources and opportunities to explore and deepen their understanding of contemporary and historically significant film and television, and take part in major festivals and symposia, most recently devoted to contemporary Asian cinema, Latin American and Caribbean film and culture, and global media and technology.

## Programs

- Business of Media and Film Studies, Undergraduate Certificate (College of Letters and Science, Department of Film Studies) (p. 1035)
- Film Studies, BA (p. 1036)
- Film Studies, Minor (p. 1039)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Gilberto Blasini	Associate Professor	PhD	University of California, Los Angeles		
Zach Finch	Associate Lecturer	PhD	University of Wisconsin, Milwaukee		
Peter Paik	Associate Professor	PhD	Cornell University		
Jocelyn Szczepaniak-Gillece	Assistant Professor	PhD	Northwestern University		
Tami Williams	Associate Professor	PhD	University of California, Los Angeles		

## Business of Media and Film Studies, Undergraduate Certificate (College of Letters and Science, Department of Film Studies)

The Certificate Program in Business of Media and Film Studies (BMFS) prepares students to be successful in their post-college careers by uniting the study of Business with the study of a popular, accessible, and pertinent area within the Humanities, Film Studies. Business students will have more sustained study in humanistic inquiry, both of their own field and of the diverse world that the Humanities investigates. Letters and Science students will have access to professional school curricula to help them be better equipped to enter a workforce that demands flexibility and a diversity of knowledge and experience.

The certificate in BMFS includes coursework engaging the financial and industry practices and structures in film and television. It is an interdisciplinary academic program consisting of an introductory course in Film or Television Studies, introductory courses in Business Administration (accounting, management, and marketing), an intermediate level Film Studies course focused on history and representational analysis, and a set of electives from Business Administration and Film Studies.

## Eligibility

The program is open to all students seeking a bachelor's degree from UWM, to students who previously earned a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Students currently involved in baccalaureate studies at UWM who successfully complete the requirements of the certificate program will be awarded the certificate at the time of graduation. Other students will receive the certificate upon completion of the program requirements.

## Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.25, a minimum of 19 credits in approved BMFS

courses as indicated below, 15 of which must be earned in residence at UWM. Of these 15 residence credits, 9 must be taken at the 300 level or above. Nine credits must be taken in the College of Letters and Science, and nine credits must be taken in the Lubar College of Business. Courses for the certificate may not be taken on a credit/no credit basis.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Advisory Committee (BMFSAC). Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the program's approval may have their credits applied retroactively to the certificate program.

Code	Title	Credits
<b>Required</b>		
BUS ADM 201 or BUS ADM 230	Introduction to Financial Accounting Introduction to Information Technology Management	4
BUS ADM 360	Principles of Marketing	3
FILMSTD 212	Intermediate Topics in Film and Television Studies: (Business on Film)	3
Select one of the following:		3
ENGLISH/FILMSTD 290	Introduction to Film Studies	
ENGLISH/FILMSTD 291	Introduction to Television Studies	
<b>Electives</b>		
Select one of the following:		3
BUS ADM 330	Organizations	
BUS ADM 397	Marketing Internship	
BUS ADM 461	Consumer Behavior	
BUS ADM 465	International Marketing	
BUS ADM 467	Marketing Seminar:	
Select one of the following:		3
ENGLISH/FILMSTD 312	Topics in Film, Television and Digital Studies: (Cinema and Digital Culture)	

ENGLISH/FILMSTD 380	Media and Society:
ENGLISH/FILMSTD 391	Television Criticism and Theory
ENGLISH/FILMSTD 393	Entertainment Industries:
ENGLISH/FILMSTD 394	Theories of Digital Culture:
<b>Total Credits</b>	
	<b>19</b>

## Film Studies, BA

The Department of Film Studies' BA program focuses on the history, theory and criticism of film and television. Students learn how to critically analyze the impact of film and television on individuals and society; make connections between media, historical themes and cultural change; and compare different formats. Film and media cross time periods and locations, languages and cultures. The courses that a well-rounded Film Studies student will take are equally as diverse. The major blends courses in Film Studies with classes from English, Art History, Comparative Literature, History, Religious Studies, French, Italian, Japanese, and other languages. UWM students have the advantage of being in the heart of the largest city in Wisconsin, home to a lively art house movie scene, a growing independent film industry, and a thriving cinematic culture.

Students who are more interested in film and video production process and who are looking to become a filmmaker or videographer may wish to also explore the majors offered through UWM's Peck School of the Arts.

Additional courses that count toward the major are offered by the following departments in the College of Letters and Science:

- Art History
- English
- Foreign Languages and Linguistics
- French, Italian, and Comparative Literature
- Journalism, Advertising, and Media Studies

Lower division film production courses are offered by the Peck School of the Arts' Film Department, and may count towards a student's elective course requirements.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
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### Oral and Written Communication

#### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)
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#### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits	3
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### Humanities

Select 6 credits	6
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### Social Sciences

Select 6 credits	6
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### Natural Sciences

Select 6 credits (at least two courses including one lab)	6
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### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	

BIO SCI 465	Biostatistics
ECON 210	Economic Statistics
GEOG 247	Quantitative Analysis in Geography
HIST 595	The Quantitative Analysis of Historical Data
MTHSTAT 215	Elementary Statistical Analysis
PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation.**		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Film Studies Major Requirements

A total of 36 credits is required for the major, at least 18 in upper-level courses (numbered 300 or above), with at least 15 of them taken in residence at UWM. Students must attain a 2.0 GPA on all UWM credits attempted for the major. In addition, the College requires that students attain a 2.0 GPA on all major credits attempted, including any transfer work. Students must complete the requirements specified below.

Code	Title	Credits
<b>Core</b>		
ARTHIST/FILMSTD 205	History of Film I: Development of an Art	3
ENGLISH/FILMSTD 290	Introduction to Film Studies	3
or ENGLISH/FILMSTD 291	Introduction to Television Studies	
ENGLISH/FILMSTD 390	Classical Film Criticism and Theory (offered fall semester only)	3
or ENGLISH/FILMSTD 391	Television Criticism and Theory	
FILMSTD 690	Seminar in Contemporary Cinema and Media: (satisfies L&S research requirement; offered spring semester only)	3
<b>Intermediate-Level Requirement</b>		
Select two of the following:		6
ARTHIST/ENGLISH/FILMSTD 111	Entertainment Arts: Film, Television, and the Internet	
ARTHIST/FILMSTD 206	History of Film II: Development of an Art	
COMPLIT 233	Literature and Film:	
ENGLISH/FILMSTD 286	Writing about Film and Television	
ENGLISH/FILMSTD 291	Introduction to Television Studies (if not selected above)	
ENGLISH/FILMSTD 294	Game Culture	
ENGLISH/FILMSTD 295	Women and Film	
FILM 201	Introduction to Experimental Media Arts <sup>1</sup>	
FILM 203	Media Workshop: <sup>1</sup>	
FILM 220	16mm Filmmaking <sup>1</sup>	
FILM 222	Digital Filmmaking <sup>1</sup>	
FILMSTD 212	Intermediate Topics in Film and Television Studies:	
FILMSTD 299	Ad Hoc:	
ITALIAN 329	Italian Cinema	
<b>Advanced-Level (300 and above) Electives</b>		
Select 6 credits from the following (focusing on world/global/international cinema):		6
ENGLISH/FILMSTD 316	World Cinema:	
FILMSTD 395	Feminist Media Criticism and Theory:	
FILMSTD 412	Global Cinema and Media:	
Or other appropriate courses approved by the Director		
Select 12 additional credits (see below)		12
<b>Total Credits</b>		<b>36</b>

<sup>1</sup> A maximum of 3 credits in Film Department courses (FILM) may count toward the intermediate-level course requirement.

## Advanced-Level Electives

The following is a partial list. Other variable content courses with appropriate subtitles may be approved on a semester-by-semester basis

to count toward the major. See the list published in the Schedule of Classes (<http://www4.uwm.edu/schedule/>) under affiliated Film Studies courses, the Film Studies website, or the program advisor.

Code	Title	Credits
ARTHIST/FILMSTD 308	Film Styles:	3
COMPLIT 360	Seminar in Literature and Cultural Experience: (New Chinese Cinemas)	3
COMPLIT 461	Film-Fiction Interaction:	3
ENGLISH/FILMSTD 312	Topics in Film, Television and Digital Studies:	3
ENGLISH/FILMSTD 316	World Cinema:	3
ENGLISH/FILMSTD 320	Studies in Film and Television Authorship:	3
ENGLISH/FILMSTD 329	Film and Literature	3
ENGLISH/FILMSTD 380	Media and Society:	3
ENGLISH/FILMSTD 383	Cinema, Television, and Genre:	3
ENGLISH/FILMSTD 391	Television Criticism and Theory	3
ENGLISH/FILMSTD 393	Entertainment Industries:	3
ENGLISH/FILMSTD 394	Theories of Digital Culture:	3
FILMSTD/JEWISH 350	Global Jewish Film and Television:	3
FILMSTD 412	Global Cinema and Media:	3
FILMSTD 489	Internship in Film Studies, Upper Division	1-6
FILMSTD 499	Ad Hoc:	1-6
FILMSTD 669	Screening Sexuality:	3
FILMSTD 699	Independent Work	1-3
FRENCH 451	Cinema of the French-Speaking World:	3
JAMS 562	Media Studies and Culture <sup>1</sup>	3
JAMS 620	Seminar in Global Media <sup>1</sup>	3

<sup>1</sup> A maximum of 3 credits in JAMS courses may count toward the advanced-level course requirement.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and

- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Film Studies majors who have maintained at least a 3.500 GPA in courses for the major, a 3.500 GPA on all advanced (300-level and above) courses in the major, and a 3.000 GPA overall on all UWM courses attempted may apply to the Film Studies undergraduate advisor to graduate with "Honors in the Major."

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Film Studies, Minor

Our Film Studies program focuses on the history, theory and criticism of film and television. Students learn how to critically analyze

the impact of film and television on individuals and society; make connections between media, historical themes and cultural change; and compare different formats.

Film and media cross time periods and locations, languages and cultures. The courses that a well-rounded Film Studies student will take are equally as diverse. The major blends courses in Film Studies with classes from English, Art History, Comparative Literature, History, Religious Studies, French, Italian, Japanese, and other languages.

UWM students have the advantage of being in the heart of the largest city in Wisconsin, home to a lively art house movie scene, a growing independent film industry, and a thriving cinematic culture.

Students who are more interested in film and video production process and who are looking to become a filmmaker or videographer may wish to also explore the majors and minors offered through UWM's Peck School of the Arts.

## Requirements

To complete the minor, students are required to take 18 credits of Film Studies Program approved courses. Students must attain a 2.0 GPA in UWM credits attempted for the minor. In addition, the College requires that students attain a 2.0 GPA in all minor credits attempted, including any transfer work.

Code	Title	Credits
<b>Required</b>		
ENGLISH/FILMSTD 290	Introduction to Film Studies	3
or ENGLISH/FILMSTD 291	Introduction to Television Studies	
Select one of the following:		3
ARTHIST/FILMSTD 205	History of Film I: Development of an Art	
ARTHIST/FILMSTD 206	History of Film II: Development of an Art	
<b>Electives</b>		
Select 3 additional credits from intermediate electives (see below)		3
Select 9 credits from advanced electives (see below)		9
<b>Total Credits</b>		<b>18</b>

## Intermediate-Level Electives

Code	Title	Credits
ARTHIST/ENGLISH/FILMSTD 111	Entertainment Arts: Film, Television, and the Internet	3
ARTHIST/FILMSTD 206	History of Film II: Development of an Art	3
COMPLIT 233	Literature and Film:	3
ENGLISH/FILMSTD 286	Writing about Film and Television	3
ENGLISH/FILMSTD 291	Introduction to Television Studies (if not selected above)	3
ENGLISH/FILMSTD 294	Game Culture	3
ENGLISH/FILMSTD 295	Women and Film	3
FILM 201	Introduction to Experimental Media Arts	3
FILM 203	Media Workshop:	3
FILM 220	16mm Filmmaking	3
FILM 222	Digital Filmmaking	3

FILMSTD 212	Intermediate Topics in Film and Television Studies:	3
FILMSTD 299	Ad Hoc:	1-6
ITALIAN 329	Italian Cinema	3

## Advanced-Level Electives

Code	Title	Credits
ARTHIST/FILMSTD 307	Film Directors:	3
ARTHIST/FILMSTD 308	Film Styles:	3
COMPLIT 360	Seminar in Literature and Cultural Experience: (New Chinese Cinemas)	3
COMPLIT 461	Film-Fiction Interaction:	3
ENGLISH/FILMSTD 312	Topics in Film, Television and Digital Studies:	3
ENGLISH/FILMSTD 316	World Cinema:	3
ENGLISH/FILMSTD 320	Studies in Film and Television Authorship:	3
ENGLISH/FILMSTD 329	Film and Literature	3
ENGLISH/FILMSTD 380	Media and Society:	3
ENGLISH/FILMSTD 383	Cinema, Television, and Genre:	3
ENGLISH/FILMSTD 391	Television Criticism and Theory	3
ENGLISH/FILMSTD 393	Entertainment Industries:	3
ENGLISH/FILMSTD 394	Theories of Digital Culture:	3
FILMSTD/JEWISH 350	Global Jewish Film and Television:	3
FILMSTD 395	Feminist Media Criticism and Theory:	3
FILMSTD 412	Global Cinema and Media:	3
FILMSTD 489	Internship in Film Studies, Upper Division	1-6
FILMSTD 499	Ad Hoc:	1-6
FILMSTD 669	Screening Sexuality:	3
FILMSTD 699	Independent Work	1-3
FRENCH 451	Cinema of the French-Speaking World:	3
JAMS 562	Media Studies and Culture	3
JAMS 620	Seminar in Global Media	3

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.



## General Letters, BA

The Bachelor of Arts in General Letters gives students the solid foundation of a bachelor's degree with coursework that stresses critical thinking and communication skills across disciplines, along with the flexibility of a curriculum with no major. This degree may be for you if you do not want to be limited by a major, want to take a wide range of courses, or need to make the most of credits you are transferring into UWM.

The B.A. in General Letters does not allow completion of a major but can include one or more minors, certificates, and/or microcredentials.

This degree can be completed mostly or entirely online depending on which courses the student chooses to enroll in.

To declare the B.A. in General Letters, visit the College of Letters & Sciences page on this degree (<https://uwm.edu/letters-science/general-letters/>).

## Course of Study – Bachelor of Arts in General Letters

Complete 120 credits including 90 credits in the College of Letters & Science and with 45 of the 90 credits in L&S upper-level (numbered above 300). At least 15 credits must be completed in residence at UWM. The Bachelor of Arts in General Letters does not require completion of a major. Students must attain a 2.0 GPA on all credits attempted, including any transfer work.

Upon application for graduation, students completing this degree will submit a portfolio containing summative assessment assignments from two of their 300-level or above courses, and a reflection paper in which the student discusses those assignments in relation to their learning across the degree.

Students are also required to complete University-wide General Education Requirements (p. 30) and the specific L&S requirements listed below.

## College of Letters and Science Requirements

### I. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options beyond language courses.

Code	Title	Credits
<b>Completed in one of the following ways:</b>		
	Complete 3 courses (min. 9 cr) in a single language other than English (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.	9
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

### II. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural

Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Natural Sciences</b>		
	Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Cultural Diversity</b>		
	Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### III. The Minor

If a student chooses to complete a minor, the College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Geography

Geography is the study of the earth as created by natural forces and modified by human actions. It analyzes spatial patterns and locational associations of human and physical environments. It is concerned with people's interrelationships with their environments now, in the past, and in the future. The Department of Geography includes the Cartography and Geographic Information Science (GIS) Center and works closely with the American Geographical Society Library, one of the largest holdings of geographical materials in the world.

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Anne Bonds	Professor	PhD	University of Washington	✓	
Woonsup Choi	Associate Professor	PhD	University of Illinois at Urbana-Champaign	✓	
Michael J. Day	Professor	PhD			✓
Alison Donnelly	Professor	PhD	Trinity College, Ireland	✓	
Glen Fredlund	Associate Professor	PhD	University of Kansas		✓
Ryan Holifield	Professor	PhD	University of Minnesota	✓	
Anna Mansson McGinty	Associate Professor	PhD	Lund University, Sweden	✓	
Judith Kenny	Associate Professor	PhD			✓
Linda McCarthy	Professor	PhD	University of Minnesota	✓	
Mark D. Schwartz	Distinguished Professor	PhD	University of Kansas	✓	
Kristin Sziarto	Associate Professor	PhD	University of Minnesota	✓	
Changshan Wu	Professor	PhD	Ohio State University	✓	
Zengwang Xu	Associate Professor	PhD	Texas A&M University	✓	
Hyejin Yoon	Associate Professor	PhD	Ohio State University	✓	

## Geographic Information Science, Minor

The Geographic Information Science (GIS) minor is available to students who want to learn GIS without majoring in geography. GIS refers to working with spatial data, which is useful in many fields, including urban planning, environmental analysis, cartography, retail and real estate, health, and military intelligence.

## Requirements

The GIS minor requires the completion of a minimum of 18 credits, at least 9 of them at the 300 level or above taken in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The following are required:

Code	Title	Credits
GEOG 215	Introduction to Geographic Information Science	3

## Programs

- Geographic Information Science, Minor (p. 1042)
- Geographic Information Systems, Graduate Certificate (College of Letters and Science) (p. 1043)
- Geography, BA (p. 1044)
- Geography, BS (p. 1049)
- Geography, MA (p. 1053)
- Geography, MA/Library and Information Science, MLIS (p. 1055)
- Geography, Minor (p. 1056)
- Geography, MS (p. 1057)
- Geography, PhD (p. 1059)

GEOG 525	Geographic Information Science	4
GEOG 698	GIS/Cartography Internship	3
Select two of the following:		8
GEOG 403	Remote Sensing: Environmental and Land Use Analysis	
GEOG 405	Cartography	
GEOG 547	Spatial Analysis	
GEOG 625	Intermediate Geographic Information Science	

**Total Credits** 18

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree

from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the “Declare a Minor” button on the program’s website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Geographic Information Systems, Graduate Certificate (College of Letters and Science)

The Certificate in Geographic Information Systems is designed for those individuals seeking careers as GIS specialists, providing geographic data management, spatial analysis, and GIS system management support to professionals in a broad range of disciplines, such as criminal justice, health services, city and regional planning, civil and environmental engineering, transportation, and marketing. Certificate holders will seek employment in positions such as “GIS Specialist,” “GIS Analyst,” or “GIS Coordinator.”

The School of Architecture and Urban Planning in the College of the Arts & Architecture and the College of Letters and Science jointly offer the certificate. The core courses (12 credits) focus on the structure of geographic data, components for managing geographic information systems, spatial analysis, and delivery of geographic information through maps and displays. Students select the remaining 6 credits for the certificate from electives, which may include an internship, in areas such as remote sensing, map-making, and data management systems.

Upon completion of the certificate courses, a student is awarded the certificate which qualifies for 5 credential points in the GIS Certification Institute’s standards for professional certification in GIS.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.

- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

### Credits and Courses

A minimum of 6 credits each in Urban Planning and Geography courses are required for completion of the certificate. To earn the Certificate, one must complete six semester-long courses (with a minimum of 18 credits), satisfy graduate school criteria for successful completion and maintain at least a B (3.00) average in all courses. No more than 3 credits of Internship or Independent Study will be counted towards the Certificate. The program requirements are as follows:

Code	Title	Credits
<b>Required</b>		<b>12</b>
<i>Tier 1 (select one course)</i>		
GEOG 726	Geographic Information Science	
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
<i>Tier 2 (select one course)</i>		
GEOG 826	Intermediate Geographic Information Science	
URBPLAN 792	Using Urban Geographic Information Systems (GIS) for Planning	
<i>Tier 3 (Select two courses)</i>		
GEOG 704	Remote Sensing: Environmental and Land Use Analysis	
GEOG 705	Cartography	
URBPLAN 793	Applied Projects in Urban Geographic Information Systems	
URBPLAN 794	Internet Geographic Information Systems (GIS)	
ANTHRO 562	Techniques and Problems in Archaeology	
BUS ADM 749	Data and Information Management	
<b>Electives</b>		<b>6</b>
Select six credits in courses from the list below:		
GEOG 716	Watershed Analysis and Modeling	
GEOG 747	Spatial Analysis	
GEOG 798	GIS/Cartography Internship	
GEOG 804	Advanced Remote Sensing	
GEOG 999	Independent Work (with appropriate topic)	
URBPLAN 692	Special Topics in Urban Planning:	
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
URBPLAN 792	Using Urban Geographic Information Systems (GIS) for Planning	
URBPLAN 793	Applied Projects in Urban Geographic Information Systems	
URBPLAN 794	Internet Geographic Information Systems (GIS)	
URBPLAN 991	Legislative/Administrative Agency Internship	
URBPLAN 999	Independent Study	
ANTHRO 380	Anthropological Applications of GIS	

ANTHRO 562	Techniques and Problems in Archaeology
ANTHRO 768	Topics in Advanced Research Design in Anthropology
BUS ADM 749	Data and Information Management
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS
INFOST 465	Legal Aspects of Information Products and Services
INFOST 691	Special Topics in Information Science:
INFOST 714	Metadata
Other courses as approved by the GIS Certificate Subcommittee <sup>1</sup>	
<b>Total Credits</b>	<b>18</b>

<sup>1</sup> Tier 1, 2, or 3 courses may count as electives once the Tier requirements have been satisfied.

## Advising

Students will be advised by the Geography and Urban Planning faculty who teach GIS courses.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. To be eligible for transfer, the course must have been completed within the last two years. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Gainful Employment Disclosure Information

- UWM Financial Aid Gainful Employment (<https://uwm.edu/onestop/finances/receiving-financial-aid/non-degree-students/#primary>)
- Gainful Employment Disclosure Information (<https://uwm.edu/gis-certificate/wp-content/uploads/sites/323/2019/06/gis-cert-gedt-2019.pdf>)

## Geography, BA

In high school, your geography class probably focused on maps and locations – but the field is so much broader than that. Geography bridges the physical and human world, using both scientific and humanistic methods to explain, predict, and interpret people's impact on the planet and the planet's impact on people.

UWM's geography students graduate with exceptional abilities, both intellectual and technological, to analyze data about space, place, and people - and how they relate to each other. They understand how to make sense of seemingly unrelated pieces of information by bringing together diverse facts and values. They also are adept at presenting information visually - for example, maps!

Some examples of research topics that today's geographers are tackling include climate change, land use patterns, environmental justice, racial segregation, migration and refugees, natural hazards, and animal migration.

Geographic Information Science (GIS) is a growing specialty within geography. GIS is a technical system for capturing, storing, and analyzing diverse types of data in relation to location on Earth, and it enhances decision-making in both the private and public sectors. For example, a small town may use GIS data to determine where to place fire stations and personnel based on patterns of forest fires and populations; or a corporation may use GIS to plan the location of a new store based on shopping and traffic patterns.

At UWM, students can either focus on GIS or choose another specialty track: the urban track, investigating the dynamics of cities and urbanization; the climate-environment track, for those interested in climate change, natural hazards, and environmental problems and policy; or the globalization, societies and cultures track, for a broad approach to human geography and issues like economic, social, and racial inequality; migration; and cultural change.

## Related Programs

For the teaching major and minor, see the School of Education (p. 320) section of this catalog. A related special major is International Studies (p. 1128). Related certificate programs include Asian Studies (p. 892), Latin American and Caribbean Studies (p. 1167), and Middle Eastern and North African Studies (p. 1217).

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		

Complete Foreign Language Requirement through:
Two years (high school) of a single foreign language
Two semesters (college) of a single foreign language
Or equivalent

<b>UWM Cultural Diversity Requirement</b>
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
0-18		
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research

requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Geography Major Requirements**

Students must meet with the department’s undergraduate advisor to declare geography as a major. All majors must complete the 24- or 25-credit core curriculum and the additional requirements as defined in one of the three tracks:

1. Geographic Information
2. Climate-Environment
3. Human Geography

Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. In satisfying their major requirements, all students must complete at least 33 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the major GPA. Majors must have a 2.0 GPA in all geography credits attempted at UWM, as well as in any transfer work counting toward the Geography major.

Code	Title	Credits
<b>Core Curriculum</b>		
Select one of the following courses in human geography:		3
GEOG 105	Introduction to Human Geography	
GEOG 110	The World: Peoples and Regions	
GEOG 114	Geography of Race in the United States	
GEOG 115	Globalization and Economic Development	
GEOG 140	Our Urban Environment: Introduction to Urban Geography	
Select one of these courses in physical or environmental geography:		3
GEOG 120	Our Physical Environment	
GEOG 125	Introduction to Environmental Geography	
Select one of the following regional or world geography courses:		3
GEOG 213	Geography of Asia	
GEOG 309	Nationalities and Nations of the World	
GEOG 330	Europe: East and West	
GEOG 333	Muslim Geographies: Identities and Politics	
GEOG 410	Gendered Geographies	
The following two courses are required for all tracks.		
GEOG 215	Introduction to Geographic Information Science	3
GEOG 247	Quantitative Analysis in Geography	3
Select one of the following techniques courses:		3-4
GEOG 403	Remote Sensing: Environmental and Land Use Analysis	
GEOG 405	Cartography	

GEOG 437	Qualitative Methods in Geography	
GEOG 525	Geographic Information Science <sup>1</sup>	
GEOG 547	Spatial Analysis	
The following course is required for all tracks.		
GEOG 600	Perspectives on Geography (satisfies L&S research requirement)	3
Select one of the following upper-level experiential learning courses:		3
GEOG 650	Geography Field Work	
GEOG 698	GIS/Cartography Internship <sup>2,3</sup>	
GEOG 489	Internship in Geography, Upper Division <sup>2</sup>	
GEOG 497	Study Abroad: <sup>2</sup>	
GEOG 699	Independent Work <sup>2</sup>	
<b>Major Tracks</b>		
Select a Major Track		9-15
<b>Total Credits</b>		<b>33-40</b>

- <sup>1</sup> Students in the Geographic Information Track must take GEOG 525.
- <sup>2</sup> Students must obtain faculty approval to select one of these courses: GEOG 489, GEOG 497, GEOG 698, or GEOG 699.
- <sup>3</sup> Students in the Geographic Information track must take GEOG 698.

**Major Tracks**

**Geographic Information Track**

Code	Title	Credits
GEOG 625	Intermediate Geographic Information Science	4
Select two additional upper-level techniques courses from these:		7-8
<sup>1</sup>		
GEOG 403	Remote Sensing: Environmental and Land Use Analysis	
GEOG 405	Cartography	
GEOG 437	Qualitative Methods in Geography	
GEOG 547	Spatial Analysis	
GEOG 698	GIS/Cartography Internship	3
<b>Total Credits</b>		<b>14-15</b>

- <sup>1</sup> You will already have taken GEOG 525 as part of the core curriculum and as a prerequisite for GEOG 625.

**Climate-Environment Track**

Code	Title	Credits
Select three of the following:		
GEOG 304	Human Impact on the Environment	
GEOG 306	Natural Hazards <sup>1</sup>	
GEOG 310	General Climatology <sup>1</sup>	
GEOG 340	Biogeography <sup>1</sup>	
GEOG 350	Conservation of Natural Resources	
GEOG 415	Hydrogeography <sup>1</sup>	
GEOG 450	Climates of the Past and Climate Change <sup>1</sup>	
GEOG 464	Environmental Problems	

GEOG 515	Watershed Analysis and Modeling <sup>1</sup>
GEOG 520	Physical Geography of the City <sup>1</sup>
GEOG 564	Urban Environmental Change and Social Justice

**Total Credits** 9

<sup>1</sup> These courses are approved to satisfy the L&S Advanced Natural Sciences requirement for the B.S. Students pursuing the B.S. option will need to complete at least 15 credits in upper-division courses (numbered 300 or above) in Geography, and 30 of their 36 credits in upper-division L&S courses must be in approved L&S Advanced Natural Science courses.

## Human Geography Track

Code	Title	Credits
Select four of the following: <sup>1</sup>		
<i>Systematic Geography Focus (at least TWO courses)</i>		6
GEOG 309	Nationalities and Nations of the World	
GEOG 410	Gendered Geographies	
GEOG 441	Geography of Cities and Metropolitan Areas	
GEOG 443	Cities of the World: Comparative Urban Geography	
GEOG 540	Globalization and the City	
GEOG 564	Urban Environmental Change and Social Justice	
<i>Regional Geography Focus (at least TWO courses)</i>		6
GEOG 213	Geography of Asia	
GEOG 330	Europe: East and West	
GEOG 333	Muslim Geographies: Identities and Politics	
<b>Total Credits</b>		<b>12</b>

<sup>1</sup> In *addition* to the world or regional course taken as part of the core curriculum.

## Cross-listed Course

The following course offered by the Department of Geosciences may be used to fulfill the requirements of the undergraduate major or minor in geography.

Code	Title	Credits
GEO SCI 409	Process Geomorphology	4

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Geography majors who have maintained at least a 3.0 GPA overall and a 3.5 GPA in all courses taken for the major, including a 3.5 GPA in all advanced courses in the major, are awarded the distinction 'Honors in the Major' when they graduate.

## High Honors in the Major

Geography majors who have met the minimum stated above and achieved a 3.75 or higher GPA in all courses taken for the major are awarded the distinction 'High Honors in the Major' when they graduate.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.



## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Geography, BS

In high school, your geography class probably focused on maps and locations – but the field is so much broader than that. Geography bridges the physical and human world, using both scientific and humanistic methods to explain, predict, and interpret people’s impact on the planet and the planet’s impact on people.

UWM’s geography students graduate with exceptional abilities, both intellectual and technological, to analyze data about space, place, and people - and how they relate to each other. They understand how to make sense of seemingly unrelated pieces of information by bringing together diverse facts and values. They also are adept at presenting information visually - for example, maps!

Some examples of research topics that today’s geographers are tackling include climate change, land use patterns, environmental justice, racial segregation, migration and refugees, natural hazards, and animal migration.

Geographic Information Science (GIS) is a growing specialty within geography. GIS is a technical system for capturing, storing, and analyzing diverse types of data in relation to location on Earth, and it enhances decision-making in both the private and public sectors. For example, a small town may use GIS data to determine where to place fire stations and personnel based on patterns of forest fires and populations; or a corporation may use GIS to plan the location of a new store based on shopping and traffic patterns.

At UWM, students can either focus on GIS or choose another specialty track: the urban track, investigating the dynamics of cities and urbanization; the climate-environment track, for those interested in climate change, natural hazards, and environmental problems and policy; or the globalization, societies and cultures track, for a broad approach to human geography and issues like economic, social, and racial inequality; migration; and cultural change.

## Related Programs

For the teaching major and minor, see the School of Education (p. 320) section of this catalog. A related special major is International Studies (p. 1128). Related certificate programs include Asian Studies (p. 892), Latin American and Caribbean Studies (p. 1167), and Middle Eastern and North African Studies (p. 1217).

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	

ANTHRO 568	Introduction to Anthropological Statistics
BIO SCI 465	Biostatistics
ECON 210	Economic Statistics
GEOG 247	Quantitative Analysis in Geography
HIST 595	The Quantitative Analysis of Historical Data
MTHSTAT 215	Elementary Statistical Analysis
PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

**IV. International Requirement**

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

**V. Breadth Requirement**

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		

Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. \*

**Social Sciences**

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. \*

**Natural Sciences**

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. \*

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\*

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

**Geography Major Requirements**

Students must meet with the department's undergraduate advisor to declare geography as a major. All majors must complete the 24- or 25-credit core curriculum and the additional requirements as defined in one of the three tracks:

1. Geographic Information
2. Climate-Environment
3. Human Geography

Geography majors may earn either a Bachelor of Arts or Bachelor of Science degree. In satisfying their major requirements, all students must complete at least 33 credits in geography, 18 of which must be at or above the 300 level, with at least 15 of those taken in residence at UWM. Courses taken outside geography that fulfill geography requirements will be included in the major GPA. Majors must have a 2.0 GPA in all geography credits attempted at UWM, as well as in any transfer work counting toward the Geography major.

Code	Title	Credits
<b>Core Curriculum</b>		
Select one of the following courses in human geography:		3
GEOG 105	Introduction to Human Geography	
GEOG 110	The World: Peoples and Regions	
GEOG 114	Geography of Race in the United States	
GEOG 115	Globalization and Economic Development	
GEOG 140	Our Urban Environment: Introduction to Urban Geography	
Select one of these courses in physical or environmental geography:		3
GEOG 120	Our Physical Environment	
GEOG 125	Introduction to Environmental Geography	
Select one of the following regional or world geography courses:		3
GEOG 213	Geography of Asia	
GEOG 309	Nationalities and Nations of the World	
GEOG 330	Europe: East and West	
GEOG 333	Muslim Geographies: Identities and Politics	
GEOG 410	Gendered Geographies	
The following two courses are required for all tracks:		
GEOG 215	Introduction to Geographic Information Science	3
GEOG 247	Quantitative Analysis in Geography	3
Select one of the following techniques courses:		3-4
GEOG 403	Remote Sensing: Environmental and Land Use Analysis	
GEOG 405	Cartography	
GEOG 437	Qualitative Methods in Geography	
GEOG 525	Geographic Information Science <sup>1</sup>	
GEOG 547	Spatial Analysis	
The following course is required for all tracks:		
GEOG 600	Perspectives on Geography (satisfies L&S research requirement)	3
Select one of the following upper-level experiential learning courses:		3
GEOG 650	Geography Field Work	
GEOG 698	GIS/Cartography Internship <sup>2,3</sup>	
GEOG 699	Independent Work <sup>2</sup>	
GEOG 489	Internship in Geography, Upper Division <sup>2</sup>	
GEOG 497	Study Abroad: <sup>2</sup>	
<b>Major Tracks</b>		

Select a Major Track	9-15
<b>Total Credits</b>	<b>33-40</b>

- <sup>1</sup> Students in the Geographic Information Track must take GEOG 525.  
<sup>2</sup> Students must obtain faculty approval to select one of these courses: GEOG 489, GEOG 497, GEOG 698, or GEOG 699.  
<sup>3</sup> Students in the Geographic Information Track must take GEOG 698.

## Major Tracks

### Geographic Information Track

Code	Title	Credits
GEOG 625	Intermediate Geographic Information Science	4
Select two additional upper-level techniques courses from these: <sup>1</sup>		7-8
GEOG 403	Remote Sensing: Environmental and Land Use Analysis	
GEOG 405	Cartography	
GEOG 437	Qualitative Methods in Geography	
GEOG 547	Spatial Analysis	
GEOG 698	GIS/Cartography Internship	3
<b>Total Credits</b>		<b>14-15</b>

- <sup>1</sup> You will already have taken GEOG 525 as listed in the core curriculum and as a prerequisite to GEOG 625.

### Climate-Environment Track

Code	Title	Credits
Select three of the following:		9
GEOG 304	Human Impact on the Environment	
GEOG 306	Natural Hazards <sup>1</sup>	
GEOG 310	General Climatology <sup>1</sup>	
GEOG 340	Biogeography <sup>1</sup>	
GEOG 350	Conservation of Natural Resources	
GEOG 415	Hydrogeography <sup>1</sup>	
GEOG 450	Climates of the Past and Climate Change <sup>1</sup>	
GEOG 464	Environmental Problems	
GEOG 515	Watershed Analysis and Modeling <sup>1</sup>	
GEOG 520	Physical Geography of the City <sup>1</sup>	
GEOG 564	Urban Environmental Change and Social Justice	
<b>Total Credits</b>		<b>9</b>

- <sup>1</sup> These courses are approved to satisfy the L&S Advanced Natural Sciences requirement for the B.S. Students pursuing the B.S. option will need to complete at least 15 credits in upper-division courses (numbered 300 or above) in Geography, and 30 of their 36 credits in upper-division L&S courses must be in approved L&S Advanced Natural Science courses.

### Human Geography Track

Code	Title	Credits
Select four from the following: <sup>1</sup>		
<i>Systematic Geography Focus (at least TWO courses)</i>		6
GEOG 309	Nationalities and Nations of the World	
GEOG 410	Gendered Geographies	
GEOG 441	Geography of Cities and Metropolitan Areas	
GEOG 443	Cities of the World: Comparative Urban Geography	
GEOG 540	Globalization and the City	
GEOG 564	Urban Environmental Change and Social Justice	
<i>Regional Geography Focus (at least TWO courses)</i>		6
GEOG 213	Geography of Asia	
GEOG 330	Europe: East and West	
GEOG 333	Muslim Geographies: Identities and Politics	
<b>Total Credits</b>		<b>12</b>

- <sup>1</sup> In *addition* to the world or regional course taken as part of the core curriculum.

### Cross-listed Course

The following course offered by the Department of Geosciences may be used to fulfill the requirements of the undergraduate major or minor in geography.

Code	Title	Credits
GEO SCI 409	Process Geomorphology	4

### Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

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- assist you in defining your academic and life goals;
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a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
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- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

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## Honors in the Major

Geography majors who have maintained at least a 3.0 GPA overall and a 3.5 GPA in all courses taken for the major, including a 3.5 GPA in all advanced courses in the major, are awarded the distinction 'Honors in the Major' when they graduate.

## High Honors in the Major

Geography majors who have met the minimum stated above and achieved a 3.75 or higher GPA in all courses taken for the major are awarded the distinction 'High Honors in the Major' when they graduate.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

# Geography, MA

## Related Certificates

- Certificate in Geographic Information Systems (GIS) (p. 1043)

## Overview

The Department of Geography offers both master's and doctoral programs of study across a range of systematic, regional, and technical fields, with innovative energy in the doctoral program for studying urban environments. The department's overall strengths are aligned along a theme of "Changing Environments," with three major axes, each responsive to areas with strong demand for new professionals:

- **Human Geography and Urban Environments:** This area emphasizes the spatial interactions of economic systems as well as political, social, cultural, environmental, technological, and other forces that influence the people, identities, landscape, development, and dynamics of urban areas. With the world's population becoming increasingly urbanized and globalized, courses examine the continuing challenges of urban growth and change, race, ethnicity, and gender in the city, immigration and identity politics, and spatial aspects of urban planning processes and political decision-making.
- **Physical Geography and Environmental Studies:** This area addresses the interactions among natural forms and processes on the earth's surface, the impact and implications of global climate change, and human connections with those natural phenomena. Courses on long-term atmospheric change are emphasized. Overlapping emphases include phenology, water resources, conservation, natural hazards, natural resource scarcity, and the mounting challenges of global environmental change.
- **Geographic Information Science and Remote Sensing:** This area emphasizes using geospatial technology to further understanding of spatial interactions among natural and social forces at multiple scales across the Earth's surface, and exploring the impacts of using such technology on social and cultural interactions. Courses examine geographic information collection (including remote sensing), data analysis and geocomputation (spatial analysis), information presentation (cartography), and societal implications. Our program emphasizes applications of Geographic Information Science (GIS) in urban, regional, and environmental planning, policy making, and public health.

In addition to these departmental strengths, individual faculty members apply their expertise in topics such as remote sensing, GIS, and cartography to problems of the city. Geography faculty also participate in the certificate program in Geographic Information Systems, which is jointly offered by the College of Letters and Science and the College of the Arts & Architecture.

While the master's program offers a more traditional structure within which students can strengthen their knowledge of the discipline and one or more of its subfields, the department's unique PhD program is designed to be especially attractive to forward-looking students interested in the urban environment who seek a flexible, versatile, 21st century graduate education with a strong emphasis on interdisciplinarity. The PhD program's urban-environmental theme is inclusive and encompassing of processes and problems associated with the intersection of human and natural environments, strongly focused on "the city" as the entity of engagement. The program breaks with longstanding tradition in the field of geography in stressing a balance between specialized analytical research and synthetic research, between

traditional academic research and community engagement, and between research and teaching. It relies heavily on Geographic Information Science (GIS) as a research tool and as an organizing framework.

## Facilities and Resources

The University of Wisconsin–Milwaukee is the repository of the venerable American Geographical Society Library, an internationally renowned research resource. The Department of Geography boasts a large instructional Map Collection, which functions as a federal government depository for maps; and a Soils and Physical Geography Laboratory, which supports research projects among several UWM departments.

Other research resources at UWM available to the Geography Department staff and students include the Cartography and GIS Center, the School of Freshwater Sciences, the Center for Economic Development, the Center for Latin American and Caribbean Studies, the Center for International Education, the Center for Urban Transportation Studies, Women's and Gender Studies, the Digital Humanities Lab, the Center for 21st Century Studies, and University Information Technology Services.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Master of Arts in Geography

The MA normally is awarded to those who concentrate in cultural or human geography. Students must elect to pursue either the MA or MS option during their first semester in the program. Students may also elect to complete their degree through either a thesis or non-thesis track.

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Evidence of general intellectual ability and compelling interest in geography. An undergraduate major in geography is desirable as evidence of such ability and interest but is not required. Past coursework will be compared to the core requirements of the UWM Geography bachelor's degree in order to determine any deficiencies that need to be satisfied as a condition of acceptance.
2. Reason statement. This statement should outline the applicant's research interests and academic background, their goals for pursuing a graduate degree in geography, and other relevant professional and research experience. The statement should not exceed two-single sided pages.
3. A curriculum vitae (CV) detailing academic history and accomplishments and other relevant professional qualifications.
4. A writing sample. The writing sample can be a paper written for a class, a professional project, or part of longer piece of writing. It should not exceed 20 pages.
5. Three letters of recommendation.
6. Departmental approval, based on thorough evaluation of applicant's potential for professional development.

## Credits and Courses

### Standard Track

The Standard Track is the only option for MA students. Both M.A. and M.S. degrees are offered in the standard track. The M.A. normally is awarded to those who concentrate in cultural or human geography, whereas the M.S. is awarded to those who concentrate in physical geography. Students must elect to pursue either the M.A. or M.S. option during their first semester in the program. A minimum of 6 credits in physical geography or natural science courses appropriate to the student's area of study are required for the M.S. Students may also elect to complete their degree through either a thesis or non-thesis option.

The two options have the same coursework requirements except for the capstone project. Details are provided below.

Minimum degree requirement is 30 graduate credits with an average GPA of 3.0. The student, in consultation with the advisor, plans a program of studies to include:

Code	Title	Credits
GEOG 726	Geographic Information Science	4
GEOG 747	Spatial Analysis	4
GEOG 810	Introduction to Techniques of Research and Presentation	3
GEOG 870	Contemporary Geographic Approaches:	3
	12 credits in graduate-level (700 and above) courses approved by the student's advisor (at least 3 of these credits must be in one Geography-related graduate seminar course)	12
	4 credits in the student's capstone project (see Thesis Option and Non-Thesis Option information below)	4
<b>Total Credits</b>		<b>30</b>

The student also must attend Geography colloquia regularly while in residence and must present their thesis research at a departmental colloquium.

### Thesis Option

The student must register at least 4 credits of GEOG 890 Research and Master's Thesis (approved by the student's advisor). In addition, the student, through the advisor, must present a proposed thesis topic and Advisory Committee to the Graduate Faculty of the Department for its approval. For students electing the M.S. option, the Faculty will also judge the appropriateness of the thesis topic for that degree.

The student must then write a thesis acceptable to the major professor for presentation to the Advisory Committee (two faculty members in addition to the advisor). The defense date for the thesis must be set at least two weeks prior to the Graduate School deadline for completion of all work. The thesis must be approved by the advisor and delivered to the committee at least six weeks prior to the defense date. Students must submit the thesis to the advisor in sufficient time to meet the committee deadline. Exceptions to these deadlines under unusual circumstances must be approved unanimously by the student's committee. In addition to submission of the final thesis to the Graduate School (according to their required procedure), the candidate must present the Geography Department with a professionally hard-bound copy that meets Graduate School specifications for quality. This copy will remain on file in the department.

### Non-Thesis Option

This option is intended for students who are not interested in continuing their graduate education beyond the master’s degree, and plan to seek professional employment. The M.A. degree will normally be awarded upon completion of this option. Those who wish a M.S. degree must formally petition the Graduate Faculty in writing, providing a rationale as to why that degree is appropriate to their program. The student must complete at least 4 credits of graduate work (approved by the student’s advisor) as either:

- Two research papers (GEOG 999) Students pursuing the non-thesis option through the two-research paper option must choose two separate topics, and conduct extended literature reviews on the topics, although other possibilities, such as a small research project, should not be excluded. The papers are expected to be 25-50 pages apiece. The student is expected to have an oral defense with three committee members regarding the two papers. According to current guidelines, the student is not expected to present their papers to the colloquium series.

OR

- A graduate internship (GEOG 798 or GEOG 889 (note that GEOG 810 is a prerequisite for GEOG 889)). Students pursuing the non-thesis option through the graduate internship should conduct at least 180 hours of internship. The internship should be related to the student’s academic area of interest and must be approved by the advisor. The student is expected to write a scholarly paper of 25-50 pages in length that connects the internship to the appropriate literature. The student must have a committee of three faculty members, and is expected to go through an oral defense with the committee members regarding the internship paper. According to current guidelines, the student is not expected to present their internship paper to the colloquium series.

## Additional Requirements

### Major Professor and Advisory Committee

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. The Chair of the Geography Graduate Committee is a temporary advisor; within the first semester the student selects a major professor (advisor) in the student’s specialization.

By the time of the student’s thesis defense, the advisory committee must have at least three members, including the student’s chosen major professor. The majority of the committee members must be UWM Geography graduate faculty.

### Time Limit

This program is designed to be completed in two years of full-time attendance. The Graduate School requires that all degree requirements be completed within five years of initial enrollment.

## Geography, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master’s degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School’s offerings in accordance with the student’s goals in the coordinated degree program.

### MLIS/MA Geography

The MLIS/MA Geography Coordinated Degree Program prepares students for positions as map librarians. Graduates of the program are qualified to assume positions as curators and staff in map collections of universities, governmental agencies, and industry.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

The MA in Geography normally has a minimum requirement of 30 credits from regular geography courses (which includes 4 capstone/thesis credits). For the coordinated MA Geography/MLIS degree program, however, students can substitute 6 credits in information studies courses for 6 credits of geography. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in Geography courses specified below.

Code	Title	Credits
GEOG 726	Geographic Information Science	4
GEOG 747	Spatial Analysis	4
GEOG 810	Introduction to Techniques of Research and Presentation	3
GEOG 870	Contemporary Geographic Approaches: (subtitle)	3
Select a GEOG 900-level course		3
Select any GEOG graduate course		3
GEOG 889 or GEOG 999	Internship in Geography Independent Work	4
<b>Total Credits</b>		<b>24</b>

The Geography Department offers opportunities for fieldwork that may count toward these requirements. In addition to off-campus fieldwork, the American Geographical Society Collection at the UWM Golda Meir Library

provides many unique opportunities for map librarianship fieldwork and is an appropriate site for an internship.

Graduates of the program are qualified to assume positions as curators and staff members in map collections of universities, governmental agencies, and industry. In cases where map collections are not of sufficient size to warrant separation as distinct collections, knowledge of how to store, classify, and retrieve maps will be a valuable set of skills that enhance the qualifications of the information professional.

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		<b>12</b>
INFOST 501	Foundations of Library and Information Science	
INFOST 511	Organization of Information	
INFOST 571	Information Access and Retrieval	
INFOST 799	Research Methods in Information Studies	
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Geography, Minor

In high school, your geography class probably focused on maps and locations – but the field is so much broader than that. Geography bridges the physical and human world, using both scientific and humanistic methods to explain, predict, and interpret people's impact on the planet and the planet's impact on people.

UWM's geography students graduate with exceptional abilities, both intellectual and technological, to analyze data about space, place, and people - and how they relate to each other. They understand how to make sense of seemingly unrelated pieces of information by bringing together diverse facts and values. They also are adept at presenting information visually - for example, maps!

Some examples of research topics that today's geographers are tackling include climate change, land use patterns, environmental justice, racial segregation, migration and refugees, natural hazards, and animal migration.

Geographic Information Science (GIS) is a growing specialty within geography. GIS is a technical system for capturing, storing, and analyzing diverse types of data in relation to location on Earth, and it enhances decision-making in both the private and public sectors. For example, a small town may use GIS data to determine where to place fire stations and personnel based on patterns of forest fires and populations; or a corporation may use GIS to plan the location of a new store based on shopping and traffic patterns.

## Related Programs

For the teaching major and minor, see the School of Education (p. 320) section of this catalog. A related special major is International Studies (p. 1128). Related certificate programs include Asian Studies (p. 892), Latin American and Caribbean Studies (p. 1167), and Middle Eastern and North African Studies (p. 1217).

## Requirements

The geography minor requires the completion, with a GPA of 2.0 or above in all geography courses attempted at UWM, of 18 credits in geography courses, at least 9 of which must be at the 300 level or above taken in residence at UWM. In addition, students must attain a 2.0 GPA on all courses attempted in the minor, including transfer work. The following are required:

Code	Title	Credits
<b>Required</b>		
Select one of the following:		3
GEOG 105	Introduction to Human Geography	
GEOG 110	The World: Peoples and Regions	
GEOG 114	Geography of Race in the United States	
GEOG 115	Globalization and Economic Development	
GEOG 140	Our Urban Environment: Introduction to Urban Geography	
GEOG 213	Geography of Asia	
GEOG 120	Our Physical Environment	3
or GEOG 125	Introduction to Environmental Geography	
GEOG 215	Introduction to Geographic Information Science	3
or GEOG 405	Cartography	
<b>Electives</b>		
Select 9 credits		9
<b>Total Credits</b>		<b>18</b>

## Cross-listed Course

The following course offered by the Department of Geosciences may be used to fulfill the requirements of the undergraduate major or minor in geography.

Code	Title	Credits
GEO SCI 409	Process Geomorphology	4

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.



# Geography, MS

## Related Certificates

- Certificate in Geographic Information Systems (GIS) (p. 1043)

## Overview

The Department of Geography offers both master's and doctoral programs of study across a range of systematic, regional, and technical fields, with innovative energy in the doctoral program for studying urban environments. The department's overall strengths are aligned along a theme of "Changing Environments," with three major axes, each responsive to areas with strong demand for new professionals:

- **Human Geography and Urban Environments:** This area emphasizes the spatial interactions of economic systems as well as political, social, cultural, environmental, technological, and other forces that influence the people, identities, landscape, development, and dynamics of urban areas. With the world's population becoming increasingly urbanized and globalized, courses examine the continuing challenges of urban growth and change, race, ethnicity, and gender in the city, immigration and identity politics, and spatial aspects of urban planning processes and political decision-making.
- **Physical Geography and Environmental Studies:** This area addresses the interactions among natural forms and processes on the earth's surface, the impact and implications of global climate change, and human connections with those natural phenomena. Courses on long-term atmospheric change are emphasized. Overlapping emphases include phenology, water resources, conservation, natural hazards, natural resource scarcity, and the mounting challenges of global environmental change.
- **Geographic Information Science and Remote Sensing:** This area emphasizes using geospatial technology to further understanding of spatial interactions among natural and social forces at multiple scales across the Earth's surface, and exploring the impacts of using such technology on social and cultural interactions. Courses examine geographic information collection (including remote sensing), data analysis and geocomputation (spatial analysis), information presentation (cartography), and societal implications. Our program emphasizes applications of Geographic Information Science (GIS) in urban, regional, and environmental planning, policy making, and public health.

In addition to these departmental strengths, individual faculty members apply their expertise in topics such as remote sensing, GIS, and cartography to problems of the city. Geography faculty also participate in the certificate program in Geographic Information Systems, which is jointly offered by the College of Letters and Science and the College of the Arts & Architecture.

While the master's program offers a more traditional structure within which students can strengthen their knowledge of the discipline and one or more of its subfields, the department's unique PhD program is designed to be especially attractive to forward-looking students interested in the urban environment who seek a flexible, versatile, 21st century graduate education with a strong emphasis on interdisciplinarity. The PhD program's urban-environmental theme is inclusive and encompassing of processes and problems associated with the intersection of human and natural environments, strongly focused on "the city" as the entity of engagement. The program breaks with longstanding tradition in the field of geography in stressing a balance between specialized analytical research and synthetic research, between

traditional academic research and community engagement, and between research and teaching. It relies heavily on Geographic Information Science (GIS) as a research tool and as an organizing framework.

## Facilities and Resources

The University of Wisconsin–Milwaukee is the repository of the venerable American Geographical Society Library, an internationally renowned research resource. The Department of Geography boasts a large instructional Map Collection, which functions as a federal government depository for maps; and a Soils and Physical Geography Laboratory, which supports research projects among several UWM departments.

Other research resources at UWM available to the Geography Department staff and students include the Cartography and GIS Center, the School of Freshwater Sciences, the Center for Economic Development, the Center for Latin American and Caribbean Studies, the Center for International Education, the Center for Urban Transportation Studies, Women's and Gender Studies, the Digital Humanities Lab, the Center for 21st Century Studies, and University Information Technology Services.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Master of Science in Geography

The MS is awarded to those who concentrate in physical geography. Students must elect to pursue either the MA or MS option during their first semester in the program. A minimum of 6 credits in physical geography or natural science courses appropriate to the student's area of study are required for the MS. Students may also elect to complete their degree through either a thesis or non-thesis track.

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Evidence of general intellectual ability and compelling interest in geography. An undergraduate major in geography is desirable as evidence of such ability and interest but is not required. Past coursework will be compared to the core requirements of the UWM Geography bachelor's degree in order to determine any deficiencies that need to be satisfied as a condition of acceptance.
2. Reason statement. This statement should outline the applicant's research interests and academic background, their goals for pursuing a graduate degree in geography, and other relevant professional and research experience. The statement should not exceed two-single sided pages.
3. A curriculum vitae (CV) detailing academic history and accomplishments and other relevant professional qualifications.
4. A writing sample. The writing sample can be a paper written for a class, a professional project, or part of longer piece of writing. It should not exceed 20 pages.
5. Three letters of recommendation.
6. Departmental approval, based on thorough evaluation of applicant's potential for professional development.

## Credits and Courses

### Track Options

MS students may choose the Standard or the GIS Professional Track.

#### A. Standard Track

The Standard Track is the only option for MA students. Both M.A. and M.S. degrees are offered in the standard track. The M.A. normally is awarded to those who concentrate in cultural or human geography, whereas the M.S. is awarded to those who concentrate in physical geography. Students must elect to pursue either the M.A. or M.S. option during their first semester in the program. A minimum of 6 credits in physical geography or natural science courses appropriate to the student's area of study are required for the M.S. Students may also elect to complete their degree through either a thesis or non-thesis option.

The two options have the same coursework requirements except for the capstone project. Details are provided below.

Minimum degree requirement is 30 graduate credits with an average GPA of 3.0. The student, in consultation with the advisor, plans a program of studies to include:

Code	Title	Credits
GEOG 726	Geographic Information Science	4
GEOG 747	Spatial Analysis	4
GEOG 810	Introduction to Techniques of Research and Presentation	3
GEOG 870	Contemporary Geographic Approaches:	3
12 credits in graduate-level (700 and above) courses approved by the student's advisor (at least 3 of these credits must be in one Geography-related graduate seminar course)		12
4 credits in the student's capstone project (see Thesis Option and Non-Thesis Option information below)		4
<b>Total Credits</b>		<b>30</b>

The student also must attend Geography colloquia regularly while in residence and must present their thesis research at a departmental colloquium.

#### Major Professor and Advisory Committee

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The Chair of the Geography Graduate Committee is a temporary advisor; within the first semester the student selects a major professor (advisor) in the student's specialization.

By the time of the student's oral defense, the advisory committee must have at least three members, including the student's chosen major professor. The majority of the committee members must be UWM Geography graduate faculty.

#### Thesis Option

The student must register at least 4 credits of GEOG 890 Research and Master's Thesis (approved by the student's advisor). In addition, the student, through the advisor, must present a proposed thesis topic and Advisory Committee to the Graduate Faculty of the Department for its approval. For students electing the M.S. option, the Faculty will also judge the appropriateness of the thesis topic for that degree.

The student must then write a thesis acceptable to the major professor for presentation to the Advisory Committee (two faculty members in addition to the advisor). The oral defense date for the thesis must

be set at least two weeks prior to the Graduate School deadline for completion of all work. The thesis must be approved by the advisor and delivered to the committee at least six weeks prior to the defense date. Students must submit the thesis to the advisor in sufficient time to meet the committee deadline. Exceptions to these deadlines under unusual circumstances must be approved unanimously by the student's committee. In addition to submission of the final thesis to the Graduate School (according to their required procedure), the candidate must present the Geography Department with a professionally hard-bound copy that meets Graduate School specifications for quality. This copy will remain on file in the department.

#### Non-Thesis Option

This option is intended for students who are not interested in continuing their graduate education beyond the master's degree, and plan to seek professional employment. The M.A. degree will normally be awarded upon completion of this option. Those who wish a M.S. degree must formally petition the Graduate Faculty in writing, providing a rationale as to why that degree is appropriate to their program. The student must complete at least 4 credits of graduate work (approved by the student's advisor) as either:

- Two research papers (GEOG 999) Students pursuing the non-thesis option through the two-research paper option must choose two separate topics, and conduct extended literature reviews on the topics, although other possibilities, such as a small research project, should not be excluded. The papers are expected to be 25-50 pages apiece. The student is expected to have an oral defense with three committee members regarding the two papers. According to current guidelines, the student is not expected to present their papers to the colloquium series.

OR

- A graduate internship (GEOG 798 or GEOG 889 [note that GEOG 810 is a prerequisite for GEOG 889]). Students pursuing the non-thesis option through the graduate internship should conduct at least 180 hours of internship. The internship should be related to the student's academic area of interest and must be approved by the advisor. The student is expected to write a scholarly paper of 25-50 pages in length that connects the internship to the appropriate literature. The student must have a committee of three faculty members, and is expected to go through an oral defense with the committee members regarding the internship paper. According to current guidelines, the student is not expected to present their internship paper to the colloquium series.

#### B. GIS Professional Track

This track is intended for students who plan to seek professional employment in the field of GIS and are not interested in continuing their graduate education beyond the master's degree. Only M.S. degrees are offered in the GIS professional track.

Minimum degree requirement is 30 graduate credits with an average GPA of 3.0. The student, in consultation with the advisor, plans a program of studies to include:

Code	Title	Credits
GEOG 726	Geographic Information Science	4
GEOG 747	Spatial Analysis	4
GEOG 704	Remote Sensing: Environmental and Land Use Analysis	4

GEOG 826	Intermediate Geographic Information Science	4
GEOG 705	Cartography	4
Electives		6
GEOG 798	GIS/Cartography Internship (capstone project)	4
<b>Total Credits</b>		<b>30</b>

The student also must attend Geography colloquia regularly while in residence.

### Elective Courses

Code	Title	Credits
Select two of the following:		
GEOG 804	Advanced Remote Sensing	3
GEOG 737	Qualitative Research	3
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	3
URBPLAN 792	Using Urban Geographic Information Systems (GIS) for Planning	3
URBPLAN 793	Applied Projects in Urban Geographic Information Systems	3
URBPLAN 794	Internet Geographic Information Systems (GIS)	3
GEOG 716	Watershed Analysis and Modeling	3
BUS ADM 749	Data and Information Management	3

## Additional Requirements

### A. Standard Track

#### Comprehensive Examination

In combination with the thesis defense (or after completion of the work for the non-thesis option), the student must pass a final oral examination over the field of geography, administered by the student's Advisory Committee. Scheduling this examination during the summer is not permitted except under unusual academic circumstances and with the approval of the department faculty.

### B. GIS Professional Track

#### Capstone Project (GEOG 798)

Students pursuing the GIS professional track should conduct at least 180 hours of internship. The internship should be related to the field of GIS and must be approved by the advisor. The student is expected to write a scholarly paper of 25-50 pages in length that connects the internship to the appropriate literature. The student must have a committee of three faculty members, and is expected to go through an oral defense with the committee members regarding the internship paper. According to current guidelines, the student is not expected to present their internship paper at the colloquium series.

## Geography, PhD

### Related Certificates

- Certificate in Geographic Information Systems (GIS) (p. 1043)

### Overview

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fields, with innovative energy in the doctoral program for studying urban environments. The department's overall strengths are aligned along a theme of "Changing Environments," with three major axes, each responsive to areas with strong demand for new professionals:

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- **Physical Geography and Environmental Studies:** This area addresses the interactions among natural forms and processes on the earth's surface, the impact and implications of global climate change, and human connections with those natural phenomena. Courses on long-term atmospheric change are emphasized. Overlapping emphases include phenology, water resources, conservation, natural hazards, natural resource scarcity, and the mounting challenges of global environmental change.
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In addition to these departmental strengths, individual faculty members apply their expertise in topics such as remote sensing, GIS, and cartography to problems of the city. Geography faculty also participate in the certificate program in Geographic Information Systems, which is jointly offered by the College of Letters and Science and the College of the Arts & Architecture.

While the master's program offers a more traditional structure within which students can strengthen their knowledge of the discipline and one or more of its subfields, the department's unique PhD program is designed to be especially attractive to forward-looking students interested in the urban environment who seek a flexible, versatile, 21st century graduate education with a strong emphasis on interdisciplinarity. The PhD program's urban-environmental theme is inclusive and encompassing of processes and problems associated with the intersection of human and natural environments, strongly focused on "the city" as the entity of engagement. The program breaks with longstanding tradition in the field of geography in stressing a balance between specialized analytical research and synthetic research, between traditional academic research and community engagement, and between research and teaching. It relies heavily on Geographic Information Science (GIS) as a research tool and as an organizing framework.

### Facilities and Resources

The University of Wisconsin–Milwaukee is the repository of the venerable American Geographical Society Library, an internationally renowned research resource. The Department of Geography boasts a large instructional Map Collection, which functions as a federal government

depository for maps; and a Soils and Physical Geography Laboratory, which supports research projects among several UWM departments.

Other research resources at UWM available to the Geography Department staff and students include the Cartography and GIS Center, the School of Freshwater Sciences, the Center for Economic Development, the Center for Latin American and Caribbean Studies, the Center for International Education, the Center for Urban Transportation Studies, Women's and Gender Studies, the Digital Humanities Lab, the Center for 21st Century Studies, and University Information Technology Services.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) to be considered for admission to the program. Students from a wide range of disciplinary backgrounds may be admitted. They must present the following credentials:

1. Master's degree.
2. Reason statement. This statement should outline the applicant's research interests and academic background, their goals for pursuing a graduate degree in geography, and other relevant professional and research experience. The statement should not exceed two-single sided pages.
3. A curriculum vitae (CV) detailing academic history and accomplishments, teaching and research experience, and other relevant professional qualifications.
4. A writing sample. The writing sample can be a paper written for a class, a professional project, or part of a longer piece of writing. It should not exceed 20 pages.
5. Substantial evidence of scholarly potential and commitment.
6. Three letters of recommendation.

In some instances where the applicant's record demonstrates exceptional promise, the Department will consider applications for admission to the Ph.D. program directly from a BA/BS degree. Such admission does not constitute a waiver of any of the requirements indicated below.

The Graduate Program Committee, during the admission process, will evaluate an applicant's academic background and will assign deficiencies based on a comparison of their background and the proposed specific area of study as outlined in the student's reason statement. In general, the department seeks students with:

1. Potential for planning and successfully completing an independent research project, as evidenced by a master's thesis and/or other appropriate materials;
2. Basic statistical analysis skills;
3. Interest and/or ability in evaluating problems related to the urban environment with a spatial framework; and
4. Interest in examining research questions within a multi-disciplinary (human/physical) team environment.

## Reapplication

A student who receives a master's degree from UWM must formally reapply for admission to Graduate School before continuing studies toward the Ph.D.

## Graduate Student Orientation

All new students are expected to participate in the department orientation program, offered during the week prior to the start of fall classes. If a student enters the program in the spring, they must participate in this program during the subsequent fall semester. New students will be paired with an experienced student mentor during their first year. Instructional opportunities sponsored by the Center for Instruction and Professional Development (CIPD) and the Preparing Future Faculty (PFF) initiative will be offered to all teaching assistants and other interested students enrolled in the doctoral program.

## Credits and Courses

Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM with a minimum GPA of 3.0.

Under the guidance of the advisory committee, the chair of which serves as the student's major professor, the student plans a program of study leading to the development of a special interest. All programs of study contain the following four elements: core concepts and methods, thematic focus, elective courses (as needed to meet the total credit requirement), and dissertation.

### Core Concepts and Methods

Code	Title	Credits
<b>Foundation</b>		
GEOG 726	Geographic Information Science	4
GEOG 870	Contemporary Geographic Approaches:	3
Select any Geography-related graduate seminar as approved by graduate advisor		3
Select one of the following:		3-4
GEOG 704	Remote Sensing: Environmental and Land Use Analysis	
GEOG 737	Qualitative Research	
GEOG 747	Spatial Analysis	
<b>Thematic Focus</b>		
Select three courses		9-12
<b>Electives</b>		
Select courses taken from geography or cognate fields to achieve the total of 54 credits required for the Ph.D. degree <sup>1</sup>		28-32
<b>Total Credits</b>		<b>50-58</b>

<sup>1</sup> Students must have the approval of their advisors for the elective courses.

### Thematic Focus

Students, in consultation with their advisor, must select a minimum of three courses that together confer specialized expert knowledge in one thematic area. The courses selected do not have to come from a single list, and they may include other courses not listed.

## Local Places: Problems and Issues

Relevant courses include:

Code	Title	Credits
GEOG 441	Geography of Cities and Metropolitan Areas	3
GEOG 464	Environmental Problems	3
GEOG 564	Urban Environmental Change and Social Justice	3
GEOG 945	The Internal Structure of the City	3
URB STD 981	Argument in Urban Studies Scholarship	3
URBPLAN 720	Urban Development Theory and Planning	3

## Global and Regional Perspectives

Relevant courses include:

Code	Title	Credits
GEOG 443	Cities of the World: Comparative Urban Geography	3
GEOG 540	Globalization and the City	3

## Monitoring and Modeling Urban Dynamics

Relevant courses include:

Code	Title	Credits
GEOG 704	Remote Sensing: Environmental and Land Use Analysis	4
GEOG 520	Physical Geography of the City	3
GEOG 747	Spatial Analysis	4
GEOG 826	Intermediate Geographic Information Science	4
GEOG 650	Geography Field Work	3
GEOG 804	Advanced Remote Sensing	3
GEOG 737	Qualitative Research	3
GEO SCI 730	Modelling Techniques for Hydrogeology	3
URBPLAN 721	Applied Planning Methods	3

## Research Techniques (Elective Course)

Students who have not taken a research techniques course in their prior graduate program should consult with their faculty advisor regarding their enrollment in GEOG 910, an introduction to theoretical and practical aspects of geographic research, funding, presentation, and publication. Ideally, students should enroll in this course after their first full year of courses, but no later than their fourth semester, after they have completed the majority of **Core** requirements. The course is designed to assist students with the initiation of their Ph.D. dissertation research.

## Additional Requirements

### Major Advisor and Committee

Students must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. Students may not register for any courses without that advisor's prior approval.

By the time of the student's preliminary exams or dissertation proposal hearing, the committee must have at least three members, including the student's chosen major professor. At least two of the committee members must be UWM Geography graduate faculty; one external

member approved by the program to possess appropriate expertise is automatically accepted by the Graduate School.

By the time the student is ready to defend their dissertation, the committee must have at least four members, including the major professor. At least three of the committee members must be UWM graduate faculty; one external member approved by the program to possess appropriate expertise is automatically accepted by the Graduate School. Students are allowed a maximum of six committee members for the defense. At least half the committee members must be UWM Geography graduate faculty.

## Foreign Language Requirement

If appropriate to the proposed area of study, the student's committee will require that they acquire the necessary competence in a foreign language. The major professor will supervise the completion of this requirement with input from the committee as necessary.

## Dissertation

The candidate must write an acceptable dissertation that demonstrates formulation, design, and independent execution of a significant research project. The dissertation must make an original contribution to knowledge in the field of geography. It may focus on geographical theory, methodology, data, or analysis, or it may involve collaborative approaches, interdisciplinary syntheses, and integrative solutions appropriate to the focus of the student's graduate program of study.

## Portfolio Evaluation

By the end of the first full academic year in the program, each student will undergo a formal portfolio evaluation by the members of the faculty in order to determine the student's readiness to continue in the program. This evaluation will include inspection of all written work produced in courses, commentary by relevant instructors, and any other materials the student chooses to submit. The possible outcomes of this review will be:

1. **Pass** (student continues with the normal second year of their program);
2. **Fail** (student is recommended for academic dismissal); or
3. **Probation** (student is counseled to take specific courses or other actions to achieve the necessary readiness to continue in the program). In the case of a recommendation of Probation, the student will be re-evaluated after an additional semester. If this second review does not result in a decision to PASS, the student will be recommended for academic dismissal.

## Residence

The student must meet minimum Graduate School residence requirements (<http://uwm.edu/graduateschool/doctoral-requirements/#residence>) of one continuous academic year of full-time graduate studies at UWM. This can be satisfied by completing 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. Residence credit cannot be earned at the master's level or before the master's degree is awarded.

## Doctoral Preliminary Examination

Each student will undergo a comprehensive written and oral examination by the end of their sixth semester in the program. The student's committee, advisor, and proposed dissertation topic must be approved formally by the Geography departmental faculty prior to the scheduling of these exams. A Proposed Ph.D. Program/Plan of Study must be

filed with the major professor prior to the preliminary examination. Successful completion of these exams leads to candidacy, when work on the dissertation can commence.

The student's advisor, as chair of the advisory committee, will organize and administer the examination. The content of the examination will be determined by the area of the student's interest. The scope of the examination will be determined by the student's advisory committee. A student judged qualified by the majority of the advisory committee will be admitted to candidacy. A student judged not qualified by the majority of the advisory committee will not be admitted to candidacy at the time of the examination but will be given an opportunity to retake the examination once, after a waiting period of at least one semester. At the discretion of the advisory committee, the second examination will be either a complete reexamination or a partial examination over the parts in which the student failed to qualify. A student receiving a negative vote from the advisory committee after the second examination will be recommended for academic dismissal. The student will be informed of the reasons for failure to qualify.

## Presentations

Each student must make two presentations at department colloquia. The first presentation will be scheduled early in the student's program; it is designed to give the student experience in making formal presentations. The second presentation will communicate the student's dissertation research topic and preliminary results.

## Dissertation

As mentioned above, the candidate must write an acceptable dissertation. The defense date for the dissertation must be set at least two weeks prior to the Graduate School deadline. The dissertation must be approved by the major professor and delivered to the student's advisory committee at least six weeks prior to the defense date. A student must submit the dissertation to the advisor with sufficient time to meet the committee's deadline. Exceptions to these deadlines under unusual circumstances must be approved unanimously by the student's committee.

## Dissertation Defense

The candidate must, as the final step toward the degree, defend the dissertation before the advisory committee. If the candidate passes the defense, the advisory committee will recommend to the Graduate School that a degree of Doctor of Philosophy be conferred.

## Submission of Completed Dissertation

In addition to submission of the final dissertation to the Graduate School (according to its required procedure), the candidate must present to the Geography Department a professionally hard-bound copy that meets Graduate School specifications for quality. This copy will remain on file in the department.

## Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

## Special Issues for Directly Admitted Students

Students directly admitted to the doctoral program after completion of their bachelor's degree will not earn a master's degree during the course of their studies. Further, formal doctoral status (which affects stipend rates and the ability to fulfill the residency requirement) will not be granted until the student has completed 24 credits in the program. Lastly, no more than 12 dissertation credits can be used to satisfy the 54-credit doctoral degree requirement.

# Geosciences

The Department of Geosciences is an educational community of students, researchers, and teachers focused on scientific examination of the Earth. We ask important questions, create new knowledge, and communicate information about Earth's properties and processes through deep-time. Through our research, study, and teaching, we aim to help create a scientifically informed society and enable our students to achieve their professional goals. We welcome all who share our intellectual curiosity about the Earth; our diverse community includes people from a variety of intellectual, religious, class, cultural, and political perspectives.

## Programs

- Geosciences, BA (p. 1063)
- Geosciences, BS (p. 1066)
- Geosciences, Minor (p. 1070)
- Geosciences, MS (p. 1070)
- Geosciences, PhD (p. 1071)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Julie Bowles	Associate Professor	PhD	University of California, San Diego	✓	
Bruce E. Brown	Associate Professor	PhD	University of Wisconsin		✓
Barry I. Cameron	Associate Professor	PhD	Northern Illinois University	✓	
Douglas S. Cherkauer	Professor	PhD	Princeton University		✓
Dyanna Czeck	Associate Professor	PhD	University of Minnesota	✓	
David Edgington	Professor	PhD	University of Oxford		✓
Timothy J. Grundl	Professor	PhD	Colorado School of Mines		✓
Mark T. Harris	Professor	PhD	Johns Hopkins University	✓	
John Isbell	Distinguished Professor	PhD	Ohio State University	✓	
William F. Kean	Professor	PhD	University of Pittsburgh		✓
Norman P. Lasca	Professor	PhD	University of Michigan-Ann Arbor		✓

Victoria McCoy	Visiting Assistant Professor	PhD	Yale University		
Lindsay McHenry	Professor	PhD	Rutgers University	✓	
Gregory Mursky	Professor	PhD	Stanford University		✓
Charles Paradis	Assistant Professor	PhD	University of Tennessee-Knoxville	✓	
Peter M. Sheehan	Adjunct Professor	PhD	University of California, Berkeley		✓
Robert W. Taylor	Associate Professor	PhD	Pennsylvania State University		✓
Keith Sverdrup	Professor	PhD	University of California-San Diego		✓
Shangping Xu	Associate Professor	PhD	Princeton University	✓	

## Geosciences, BA

Many students are already familiar with Geosciences through what is commonly called "earth science" in high school. Geosciences covers our Planet Earth - its soil, minerals, climate change, magnetic fields, earthquakes, water, plants, fossils, volcanoes and more.

The BA degree in Geosciences requires fewer math, physics, and chemistry prerequisites and upper-level courses than the BS degree. It is designed for students who expect to use the earth sciences in preparation for a career in law, business, government, primary or secondary schools, or natural resources, or for those who start the Geosciences program later in their college careers. The BA degree in Geosciences is more easily combined with complementary majors for students to pursue a double or a triple major.

Geosciences majors at UWM can organize their electives around a particular area of interest if they wish:

- Hard Rock - the study of structural geology, mineralogy, petrology, volcanology and tectonics
- Hydrogeology - the study of water resources
- Paleontology - the study of evolutionary patterns in history
- Sedimentary Geology - the study of rocks, fossils, and landforms in the context of the biological and chemical make-up

Geosciences touches on all aspects of the other natural sciences including chemistry, biology, mathematics and physics, so the ideal student for Geosciences loves all types of science and is curious about how they interrelate. Most Geosciences students also love the outdoors and traveling off of the beaten path.

Required outdoor field work prepares students for jobs with environmental and water resource management; energy and mineral industries; and government agencies.

UWM students often participate in research abroad in places as diverse as Iceland, Turkey, South America, Ireland, and New Zealand. Others gain hands-on experience in the dirt of Montana, the hills of South Dakota or the swamps of Florida.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within

five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
0-18		
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.



Code	Title	Credits
Completed in one of the following ways:		
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	9
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		
	Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
<b>Cultural Diversity</b>		
	Complete 3 credits in a course with Cultural Diversity (CD) designation.**	3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research

requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Major Requirements

All students who major in Geosciences must complete at least 15 credits in Geosciences courses at the advanced level (numbered 300 or above) in residence at UWM as part of the 36 advanced-level credits required for the L&S degree. The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Code	Title	Credits
<b>Required</b>		
GEO SCI 100	Introduction to the Earth	3
GEO SCI 102	Principles of Historical Geology	3
GEO SCI 301	Principles of Mineralogy	4
GEO SCI 302	Elementary Petrology	4
GEO SCI 414	Structural Geology (satisfies L&S research requirement)	4
GEO SCI 455	Field Geology (normally taken over the summer) <sup>1</sup>	3
GEO SCI 511	Stratigraphy and Sedimentation	4
<b>Electives</b>		
	Select 9 additional credits from Geosciences Department courses at the 300 level or above	9
<b>Other Requirements</b>		
<i>Physics and Chemistry</i>		
	Select at least one laboratory course in physics and one laboratory course in chemistry selected from the courses required for the Geosciences B.S. Option.	9-10
<b>Total Credits</b>		<b>43-44</b>

<sup>1</sup> GEO SCI 455 is required but not offered at UWM. Students must enroll in a field course at another university to satisfy the requirement.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;

- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Geosciences, BS

Many students are already familiar with Geosciences through what is commonly called "earth science" in high school. Geosciences covers

our Planet Earth - its soil, minerals, climate change, magnetic fields, earthquakes, water, plants, fossils, volcanoes and more.

The Bachelor of Science (BS) degree in Geosciences is designed to prepare students to become professional Earth scientists in a wide range of disciplines, as well as to enter graduate programs for further advanced training. The BS curriculum includes more allied science requirements than the BA and is designed for students who plan professional employment or advanced study in the geosciences. Graduates seek employment with environmental and water resource management; energy and mineral industries; and government agencies.

Geosciences majors at UWM can organize their electives around a particular area of interest if they wish:

- Hard Rock - the study of structural geology, mineralogy, petrology, volcanology and tectonics
- Hydrogeology - the study of water resources
- Paleontology - the study of evolutionary patterns in history
- Sedimentary Geology - the study of rocks, fossils, and landforms in the context of the biological and chemical make-up

Geosciences touches on all aspects of the other natural sciences including chemistry, biology, mathematics and physics, so the ideal student for Geosciences loves all types of science and is curious about how they interrelate. Most Geosciences students also love the outdoors and traveling off of the beaten path.

Required outdoor field work prepares students for jobs with environmental and water resource management; energy and mineral industries; and government agencies.

UWM students often participate in research abroad in places as diverse as Iceland, Turkey, South America, Ireland, and New Zealand. Others gain hands-on experience in the dirt of Montana, the hills of South Dakota or the swamps of Florida.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		

ENGLISH 102 College Writing and Research (or equivalent)

*Part B*

Course designated as OWC-B; may be completed through a major-specific course requirement

**Quantitative Literacy**

*Part A*

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

*Part B*

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

## Major Requirements

All students who major in Geosciences must complete at least 15 credits in Geosciences courses at the advanced level (numbered 300 or above) in residence at UWM as part of the 36 advanced-level credits required for the L&S degree. The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Code	Title	Credits
<b>Required</b>		
GEO SCI 100	Introduction to the Earth	3
GEO SCI 102	Principles of Historical Geology	3
GEO SCI 301	Principles of Mineralogy	4
GEO SCI 302	Elementary Petrology	4
GEO SCI 316	Introduction to Geophysics	4
GEO SCI 414	Structural Geology (satisfies L&S research requirement)	4
GEO SCI 455	Field Geology (normally taken over the summer) <sup>1</sup>	4-8
GEO SCI 511	Stratigraphy and Sedimentation	4
<b>Electives</b>		
Select two (6 – 8 credits) of the following:		6-8
GEO SCI 400	Water Quality	
GEO SCI 409	Process Geomorphology	
GEO SCI 443	Glacial and Pleistocene Geology	
GEO SCI 463	Physical Hydrogeology	
GEO SCI 464	Chemical Hydrogeology	
GEO SCI 515	Physical Sedimentology	
GEO SCI 525	Terroir: Geology in a Glass	
GEO SCI 563	Field Methods in Hydrogeology	
CES 651	Principles of Stream Management and Restoration	

Select 10-12 additional credits from Geosciences Department courses at the 300 level or above, for a total of 18 elective credits.

**Other Requirements**

*Mathematics*

MATH 231	Calculus and Analytic Geometry I	4
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Students are encouraged to take the following:

MATH 232	Calculus and Analytic Geometry II	
MATH 233	Calculus and Analytic Geometry III	
MATH 234	Linear Algebra and Differential Equations	

*Chemistry*

CHEM 102	General Chemistry	5
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Students are encouraged to take the following course as well as courses in organic and inorganic chemistry:

CHEM 104	General Chemistry and Qualitative Analysis	
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*Physics*

Select one of the following options: 5

Option 1:

PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	
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Option 2:

PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
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Students are encouraged to take:

PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)	
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OR

PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
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**Total Credits 60-68**

<sup>1</sup> GEO SCI 455 is required but not offered at UWM. Students must enroll in a field course at another university to satisfy the requirement.

Students are advised strongly to increase their scholastic breadth by selecting courses from among several subdisciplines of the geosciences, in consultation with Geosciences Department faculty.

Students who are interested in general geology are encouraged to include courses from among the following:

Code	Title	Credits
GEO SCI 409	Process Geomorphology	4
GEO SCI 420	Methods in Paleomagnetism and Environmental Magnetism	3
GEO SCI 515	Physical Sedimentology	4
GEO SCI 520	Introduction to Paleontology	4
GEO SCI 545	X-Ray Analytical Methods	3
GEO SCI 614	Advanced Structural Geology	3
GEO SCI 635	Volcanology	3
GEO SCI 638	Advanced Igneous Petrology	3

Students are encouraged to consider topics offered under the following:

GEO SCI 696	Topics in the Geological Sciences:	1-3
GEO SCI 697	Seminar in the Geological Sciences:	1-3

Students who are interested in environmental geology or hydrogeology are encouraged to include courses from among the following:

Code	Title	Credits
GEO SCI 400	Water Quality	4
GEO SCI 409	Process Geomorphology	4
GEO SCI 443	Glacial and Pleistocene Geology	4
GEO SCI 463	Physical Hydrogeology	4
GEO SCI 464	Chemical Hydrogeology	4
GEO SCI 545	X-Ray Analytical Methods	3
GEO SCI 562	Environmental Surface Hydrology	3
GEO SCI 563	Field Methods in Hydrogeology	4

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned

advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Geosciences, Minor

Many students are already familiar with Geosciences through what is commonly called "earth science" in high school. Geosciences covers our Planet Earth - its soil, minerals, climate change, magnetic fields, earthquakes, water, plants, fossils, volcanoes and more.

Geoscience minors at UWM can organize their electives around a particular area of interest if they wish:

- Hard Rock - the study of structural geology, mineralogy, petrology, volcanology and tectonics
- Hydrogeology - the study of water resources
- Paleontology - the study of evolutionary patterns in history
- Sedimentary Geology - the study of rocks, fossils, and landforms in the context of the biological and chemical make-up

Geosciences touches on all aspects of the other natural sciences including chemistry, biology, mathematics and physics, so the ideal student for Geosciences loves all types of science and is curious about how they interrelate. Most Geosciences students also love the outdoors and traveling off of the beaten path.

For the minor, outdoor field work is not required but is recommended as preparation for jobs with environmental and water resource management; energy and mineral industries; and government agencies.

UWM students often participate in research abroad in places as diverse as Iceland, Turkey, South America, Ireland, and New Zealand. Others gain hands-on experience in the dirt of Montana, the hills of South Dakota or the swamps of Florida.

## Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The minor consists of a minimum of 18 credits in geosciences courses, including the following:

Code	Title	Credits
GEO SCI 100	Introduction to the Earth	3
GEO SCI 102	Principles of Historical Geology	3
Select 12 credits at the 200 level or above, with at least 9 of them at the 300 level or higher taken in residence at UWM		12
<b>Total Credits</b>		<b>18</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Geosciences, MS

The Department of Geosciences offers the Master of Science (MS) degree program, which trains students for professional practice and/or continued graduate study. With the MS program of study, you will develop into a professional that is not just a technical worker, but a leader that can manage and carry out complex projects that include development, analysis, interpretation, and communication of results. The typical course of study takes two years to complete.

The Geosciences MS program provides our students with a strong scientific background and intensive research experience, culminating in a formal thesis. The MS degree requires both coursework and research. These help the student build observation, critical thinking, quantification, and presentation skills. Our goal is for students to gain deep knowledge in a subfield of geosciences and a broad understanding of the overall discipline. We strive to prepare students for scientific careers in academia, government, or industry.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following departmental requirements to be considered for admission to the program:

1. Hold a bachelor's degree in one of the natural sciences, engineering, or mathematics.
2. Have an appropriate background in aspects of the geosciences relevant the intended field of study.
3. Provide the names of at least three (3) people who can submit letters of recommendation speaking to your research skills and ability to succeed in a research-based MS program.
4. Provide a reason statement.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. No course credits earned in making up deficiencies must be counted as program credits required for the degree. A geology student who lacks field training must acquire the training not later than the summer following initial enrollment.

## Credits and Courses

Minimum degree requirement is 30 graduate credits, at least 24 of which must be earned in formal course credits and up to 6 of which may be earned through an acceptable thesis.

Code	Title	Credits
Formal Course Credits		24
GEO SCI 990 *		6
<b>Total Credits</b>		<b>30</b>

\* Only 6 credits of GEO SCI 990 may be counted toward the 30-credit requirement, though a student may enroll in the course more than twice and may take more than 6 credits.

## Additional Requirements

All students in their second or later year are required to present a public progress report annually to the Department.

## Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The student is assigned a preliminary advisor at the time of initial enrollment based on the student's expressed research interests.

## Proposal for Thesis

Prior to the formal undertaking of thesis research, the student must prepare a written proposal for the thesis problem including an estimate of costs to be incurred. Copies of the proposal are to be distributed to the faculty advisor and the Department reading file. One copy is to be placed in the student's permanent Department file. An abstract of the proposal

is to be distributed to each Department faculty member for comment and critique.

## Thesis

The student must write an acceptable thesis embodying the results of original research completed under the direction of the advisor. The thesis must be approved by the student's examining committee, consisting of the research advisor plus two other PhD-holding scientists, one of which may be outside of UWM.

## Comprehensive Examination

The student must pass a final oral examination in defense of the thesis. At the discretion of the examining committee, this examination may include topics in addition to the thesis. The first part of this examination will be a public presentation of the thesis. Immediately after the presentation, the thesis must be orally defended before the entire examining committee in a closed session.

## Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Geosciences, PhD

The Department of Geosciences offers the Doctor of Philosophy (PhD) degree program, which is designed to produce scholars capable of independent research that deepens humanity's understanding of science, as well as practitioners capable of applying their training to achieve sound and pragmatic solutions to real problems in the field. As a PhD student, you will become an expert and scholar in your field who is starting to generate an international reputation as an independent scientist that can devise and conduct creative research, mentor and teach, and contribute to the advancement of your field. Students in the doctoral program will normally spend four years completing their degree.

The Geosciences PhD program provides our students with a strong scientific background and intensive research experience, culminating in a formal dissertation. The PhD degree requires both coursework and research. These help the student build observation, critical thinking, quantification, and presentation skills. Our goal is for students to gain deep knowledge in a subfield of geosciences and a broad understanding of the overall discipline. We strive to prepare students for scientific careers in academia, government, or industry.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

To be considered for admission to the program, an applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements:

1. Hold a master's degree in one of the natural sciences, engineering, or mathematics or have equivalent experience.
2. Have an appropriate background in aspects of the geosciences relevant to the intended field of study.

3. Provide the names of at least three (3) people who can submit letters of recommendation speaking to your research skills and ability to succeed in a PhD program.
4. Provide a reason statement.

Exceptional students without a M.S. degree may be considered for admission. A student who holds a master's degree from UWM must formally reapply for admission to the Graduate School before continuing studies toward the Ph.D.

## Credits and Courses

Code	Title	Credits
	Credits taken from formal master's study	24
	At least 18 formal graduate credits beyond the master's degree	18
	Elective and GEO SCI 998 Doctoral Dissertation credits	12
<b>Total Credits</b>		<b>54</b>

Doctoral students must earn 54 credits beyond the bachelor's degree, of which 24 credits may be taken from formal coursework completed as part of the master's study. At least 18 graduate credits beyond the master's degree must be earned in formal coursework.

Each student must prepare a formal Program of Study to be submitted to the Geosciences Department within the first semester in the program. Courses are selected in consultation with the student's advisor and with approval from the Doctoral Committee. Students are strongly advised to take courses from each of their committee members prior to taking the doctoral preliminary examination. For full time students, coursework should be completed within 4 semesters after admission to the Ph.D. program. In unusual situations, this timetable may be extended beyond 4 semesters. A timetable for coursework completion for part time students will be established on an individual basis.

## Additional Requirements

### Residency Requirement

The Graduate School requires satisfaction of a residency requirement. This involves completing at least 8 graduate credits in 2 consecutive semesters or 6 graduate credits in 3 consecutive semesters (including summer sessions) while in full doctoral status at UWM. In addition, at least half of the graduate credits required for the Ph.D. must be earned at UWM.

### Quantitative Skill

A working knowledge of computer programming, statistics, numerical methods, or GIS appropriate to the student's field of study is required. Standards for this requirement will be established by the student's Doctoral Committee. Undergraduate courses taken to meet this requirement do not apply to the course requirements for the Ph.D.

### Doctoral Committee

The membership of the Doctoral Committee will be established in the student's first semester. The Committee must consist of the following: the doctoral student's advisor as chair (or co-advisors as co-chairs) and least three additional graduate faculty, one of whom may be external to UWM. The student is required to arrange a meeting with the Doctoral Committee at least once each year.

The student may request a change of advisor if another faculty member is available, willing, and able to assume that role. If this change involves a significant modification of the area of specialization or research, the

student's record will be reexamined to determine whether the student's background is sufficient for the new specialty. If it is not, it may be necessary for the student to withdraw from the program and reapply in the new specialty. Normally such a change of direction will not be allowed once the dissertation proposal has been defended.

## Doctoral Preliminary Examination

Advancement to dissertator status requires that students 1) submit and successfully defend a dissertation proposal and 2) pass a doctoral preliminary examination. The doctoral preliminary examination consists of a set of written exams from the Doctoral Committee and a follow-up oral examination. The structure of the written examination will be established by the student's Doctoral Committee, and the student must demonstrate knowledge in the fields of geology and related sciences as defined by the Doctoral Committee. As part of the oral examination, the student must successfully defend their dissertation proposal, which must be approved by the doctoral committee. The dissertation proposal should be in an NSF-style format and should provide an overview of and approach to the problem being addressed, a budget, and appropriate bibliographic references. For full-time students, these examinations must be passed prior to the start of the 5<sup>th</sup> semester and after the residency requirement is fulfilled.

## Annual Presentation of Results

All students beyond their first year of study are required to present a public progress report annually to the Department.

## Dissertation

The candidate must present a written dissertation reporting the results of independent, original research carried out under the direction of the major professor. Prior to a defense, the dissertation must be reviewed by the entire Doctoral Committee.

## Dissertation Defense

The student first will give a presentation of their research results in a public forum. The dissertation must then be orally defended in a closed session before the entire Doctoral Committee. The defense may include questions related to any of the dissertator's fields of study. If the dissertation is defended and the oral examination is passed to the satisfaction of a majority of the Doctoral Committee, the candidate is passed and recommended for the degree.

## Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

## Additional Requirements and Information

Detailed information about program requirements is provided to each student following admission and is available from the Department office. For additional information on Graduate School Ph.D. requirements, see the Doctoral Requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>) Webpage.

# Global Health, Undergraduate Certificate (College of Letters and Science)

Anne Dressel, *Director, Center for Global Health Equity, Nursing, Certificate Coordinator*



Connor Sampson, *Advisor, Nursing*, sampsocc@uwm.edu

Global Health is an interdisciplinary undergraduate certificate administered by the Director of the Center for Global Health Equity and the Global Health Advisory Committee (GHAC).

The world is economically, politically, culturally, and technologically connected and interdependent with increasingly mobile populations seeking economic opportunity, security, and safety as a result of civil unrest, regional conflicts, diminished natural resources, poverty, and disease. Although some health problems and issues remain specific to levels and contexts of socio-cultural, economic, and political development within countries, many of the same problems, issues, and concerns transcend geographic boundaries, as should appropriate approaches and solutions. The concept of “global health” describes and addresses these realities. An undergraduate certificate in Global Health will provide students with academic inquiry into:

- the global burden of disease
- the social determinants of health in a global context
- the principles, language, and measurement tools used in global health
- ethics and global health
- the global cultural, religious, and historical contexts of health, disease, and health care

The Global Health Certificate will provide undergraduate students with an opportunity to focus on current global health issues and concerns, policies, processes, programs, and practices that contribute to and hinder global health improvement. A wide array of courses will help students better comprehend the interdisciplinary approach to understanding and addressing global health issues.

## Eligibility

The Global Health Certificate is intended to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM, to students who previously have received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.

## Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 21 credits in approved Global Health courses, of which 12 must be earned in residence at UWM. Of these 12 residence credits, 9 must be taken at the 300 level or above. A minimum of 6 credits must be taken in the College of Letters and Science. A minimum of 6 credits must be taken in the College of Nursing. No more than 9 credits from any one department may count toward the certificate. A maximum of 6 credits of independent study may count toward program requirements. Courses for the certificate may not be taken on a credit/no credit basis.

Independent study courses focusing on global health issues may be accepted with the approval of the Certificate Program Coordinator. Other courses not on this list but relevant to the study of global health may be accepted with the approval of the Certificate Program Coordinator.

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Certificate Program Coordinator. Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the approval of this program may count those courses toward completion of the certificate requirements.

The following are required:

Code	Title	Credits
<b>Core</b>		
NURS 301	Introduction to Global Health	3
PH 101	Introduction to Public Health	3
<b>World Regions</b>		
Select one of the following:		3
ANTHRO 104	Lifeways in Different Cultures: A Survey of World Societies	
GEOG 110	The World: Peoples and Regions	
HIST 132	World History Since 1500	
POL SCI 106	Politics of the World’s Nations	
SOCIOL 103	World Society	
<b>Electives</b>		
Select a minimum of 6 credits		6
<b>Fieldwork</b>		
Select one of the following:		3
Internship		
Study Abroad		
Independent Study		
<b>Capstone</b>		
NURS 575	Global Health: Ethics and Human Rights	3
<b>Total Credits</b>		<b>21</b>

## Electives

Code	Title	Credits
AFRIC 329	Economic Growth and Sustainable Development in Africa	3
AFRIC 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
ANTHRO 102	Introduction to Anthropology: Culture and Society	3
ANTHRO 104	Lifeways in Different Cultures: A Survey of World Societies	3
ANTHRO 440	Medical Anthropology	3
ANTHRO/GLOBAL 443	Medicine and Pharmaceuticals in the Global Age	3
ANTHRO 447	The Global Politics of Human Rights	3
CES 210	Introduction to Conservation and Environmental Science	3
ECON 353	Economic Development	3
ETHNIC 375	Global Violence, Disease, and Death	3
NURS 204	Global Maternal and Child Health: From Evidence to Action	3
NURS 401	Global Patterns of Disease	3
NURS 497	Study Abroad:	3

NURS 620	Global Food Security and Systems	3
NURS 690	Global Health Governance: Key Players, Financing and Challenges	3
PH 303	Climate Change, the Environment and Human Health	3
POL SCI 374	Health, Wealth, and Democracy	3
SPANISH 388	Health Issues in the Hispanic World	3

## Fieldwork

Students are required to do an internship, self-designed research project, or study abroad (for a minimum of 3 credits at the 300-level or above) in the field of global health. The purpose of this requirement is to enable the student to engage in global health work through "practical" experience or research. The area of study must be approved by the coordinator of the Global Health Certificate and must meet the requirements of the department through which it is being completed.

The fieldwork requirement can be fulfilled in one of three ways:

- Internship – A number of global health internships are available through the International Studies Major (INTLST 450), as well as other departments and organizations.
- Study Abroad – UWM offers a number of Global Health study abroad programs, through several departments.
- Independent Study – The student may propose a global health research project to a professor in an area of interest. The independent study also must be discussed with and approved by the Global Health Certificate Coordinator.

## Global Studies

The Department of Global Studies offers a range of programs exploring globalization and cross-cultural connections. Students in the department pursue majors and minors in Arabic, Comparative Literature, French, Global Studies, Italian, and Japanese, developing international experiences and perspectives as well as advanced language skills that prepare them to build careers in a wide range of social and professional settings in the United States and abroad.

Arabic is the primary language of the Middle Eastern and North African region of the globe, with over 430 million speakers, and is designated a "critical language" by the U.S. government. Additionally, its spiritual significance resonates as the liturgical language for over 2 billion Muslims globally. The Arabic program offers six semesters of language instruction along with a minor, integrating Modern Standard Arabic with exposure to the Levantine dialect, enhancing career prospects in fields such as education, international development, diplomacy, security, business, and engineering.

Comparative Literature is the study of literature and other art forms across national and linguistic borders. Students of Comparative Literature explore and analyze writing across history and around the globe while developing a global and cross-cultural perspective on human expression. This cultural dexterity, paired with the critical thinking and interpretive skills developed within the major, prepares students for the

kind of intercultural and transnational work vital to the 21st century workplace.

French is the official language of twenty-nine countries and spoken by more than 300 million people around the globe, the second-most used official language after English. Students in the French program examine French language and culture in a global context. Majors and minors develop advanced linguistic competency while developing the cultural training necessary to work or travel in the Francophone world and explore culture and society in a language that is central to art, business, and international relations.

The Global Studies program offers students a unique blend of courses across disciplines, in preparation for a career abroad or within the U.S. that crosses borders and cultures. Majors choose one of five tracks for the interdisciplinary program, specializing in Global Communications, Global Health, Global Management, Global Security, or Global Sustainability. Each track emphasizes the acquisition of leadership, systems thinking, and communication skills with an emphasis on language skills and experiential learning leading to an in-depth understanding of a particular set of global issues.

Italian is a beautiful language of global communication, business, technology, and the arts. More than 1,000 Italian companies operate in the United States and more than 7,000 American companies operate in Italy; countless artistic masterpieces have also been produced in Italian, so speaking and understanding Italian can be a valuable asset for both your career and for pleasure and enrichment. Majors and minors learn to speak, read, and write Italian while becoming familiar with Italy's cultural history and Italian influence across the globe.

Japan is a global leader in pop culture, technology, and business, and Japanese majors and minors graduate with the cultural and linguistic fluency to thrive in a Japanese environment. Students develop written and spoken Japanese to a high level while learning both Japanese cultural history and contemporary norms and etiquette. Graduates have gone on to utilize their linguistic and cultural fluency through employment in business, international relations, and education: our alumni are based in Southeast Wisconsin, across the United States, and abroad in Japan.

## Programs

- Arabic, Minor (p. 1075)
- Committee Interdisciplinary Major, BA: Japanese Language and Culture (p. 1076)
- Comparative Literature, BA (p. 1080)
- Comparative Literature, Minor (p. 1083)
- French, BA (p. 1084)
- French, Minor (p. 1088)
- Global Studies, BA (p. 1088)
- Global Studies, Minor (p. 1098)
- Italian, BA (p. 1101)
- Italian, Minor (p. 1104)
- Japanese, Minor (p. 1105)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Anita Alkhas	Associate Professor	PhD	Michigan State University	✓	
Eric Anderson	Teaching Faculty III	MA			
Lawrence Baldassaro	Professor Emeritus	PhD		✓	✓
Christopher Celi	Teaching Faculty III	MA	University of Wisconsin-Madison		
Sarah Davies Cordova	Professor	PhD	University of California-Los Angeles	✓	
Alison Ferrentino	Teaching Faculty III	MA	University of Wisconsin-Milwaukee		
Mary laquinta	Teaching Faculty III	MA	University of Wisconsin-Milwaukee		
Simonetta Milli Konewko	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	
Larry Kuiper	Associate Professor	PhD	Michigan State University	✓	
James Mileham	Associate Professor Emeritus	PhD	University of Wisconsin-Madison	✓	✓
Drago Momcilovic	Senior Lecturer	PhD	University of Wisconsin-Madison	✓	
Robin Pickering-Iazzi	Professor	PhD	University of Washington	✓	✓
Kristin Pitt	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Aragorn Quinn	Associate Professor	PhD	Stanford University	✓	
Nicolas Russell	Associate Professor	PhD	University of Virginia	✓	
Caroline Seymour-Jorn	Professor	PhD	University of Chicago	✓	
Lucia Soldati	Teaching Faculty III				
Madeleine Velguth	Professor Emerita	PhD	University of Wisconsin-Madison	✓	✓
Gabrielle Verdier	Professor Emerita	PhD	Yale University	✓	✓
Demetrius Williams	Associate Professor	ThD	Harvard Divinity School	✓	
Jian Xu	Associate Professor	PhD	University of Iowa	✓	

## Arabic, Minor

Arabic is one of the main languages of the Middle East. Its influence is felt in related languages and dialects such as Urdu and Kurdish, it is the language of the Quran, and is the fifth most common language with more than 375 million native speakers. Westerners with Arabic fluency are in high demand as the global influence of the Middle East continues to grow.

The Department of Ancient and Modern Languages, Literatures, and Cultures offers six semesters of instruction in Arabic language leading to a minor.

Arabic courses may be of particular interest to students in the certificate in Middle Eastern and North African studies, the international studies major, the linguistics major, and the global studies degree program.

The U.S. State Department includes Arabic in its scholarship and training program for critically-needed languages.

## Requirements

Retro credits earned at the 200-level or above may count toward the minor. Students who begin their Arabic studies in higher-level courses may need to take additional credits, approved by the Arabic language coordinator, to reach a minimum of 18 credits in Arabic.

A minimum of nine credits must be taken at the 300-level or above in residence at UWM. The College requires that students attain at least a 2.0 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer

work. Students entering with no previous Arabic language experience should enroll in ARABIC 101. Students entering with previous knowledge of, or high school preparation in, Arabic, or transfer students who have studied Arabic in other colleges, are assigned to courses on the basis of a departmental placement consultation with the Arabic program coordinator. Students placed into a course beyond the 101 level who complete their first course with a grade of at least a B may receive retroactive credits, to a maximum of 16 credits (no more than 4 credits for any single course), for the courses leading to the one into which they placed.

The minor in Arabic consists of a minimum of 18 credits, with the following courses (or equivalents) required:

Code	Title	Credits
<b>Required</b>		
ARABIC 201	Third Semester Arabic	5
ARABIC 202	Fourth Semester Arabic	5
ARABIC 301	Fifth Semester Arabic	3
ARABIC 302	Sixth Semester Arabic	3
Select one of the following: <sup>1</sup>		
ARABIC 390	Islam: Religion and Culture	
ARABIC 489	Internship in Arabic, Upper Division	
ARABIC 497	Study Abroad:	
ARABIC 499	Ad Hoc:	
ARABIC 699	Advanced Independent Study	

**Total Credits** 19

<sup>1</sup> Or an upper-level culture course, at least 3 credits, approved by the Arabic Program Coordinator.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Committee Interdisciplinary Major, BA: Japanese Language and Culture

As Japan is one of the five largest world economies, professional opportunities exist for individuals who are proficient in the Japanese language and who can understand and integrate into Japanese culture.

A Committee Interdisciplinary Major with a focus on Japanese language and culture can be the first step towards a career path in teaching, translation, interpretation, government relations, social services, the travel or hospitality industry, business, technology, finance or sales. Many students are also interested in careers related to Anime or computer technology, both large industries in Japan. A major in Japanese combined with technology and science training is excellent preparation for entry into those fields.

Many students now can find Japanese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Japanese language instruction. We offer eight semesters of Japanese language plus the vitally important courses about Japanese culture, business practices, values, politics, history, and religions.

While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful students of Japanese will dedicate the necessary daily time to practice and repeat...and practice and repeat.

Japan is a very popular destination for study abroad (<http://uwm.edu/cie/study-abroad/>), and Japanese majors are encouraged to take advantage of the opportunities available through UWM. Programs vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most

students engage in study abroad during the second half of sophomore year or during their junior year.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) **6**

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

- 1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
0-18		
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College

requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Major Requirements

The Japanese Language and Culture program requires completion of 30 credits in approved Japanese and related courses. Students in the major must complete the fifth- through eighth-semester Japanese courses as the core of the program. In addition, culture-related courses that are taught using the target language are required. Students must complete 30 credits to graduate, at least 15 of them at the advanced (300 and above) level taken in residence at UWM. The major requires a minimum of 18 credits at the 300 level or above taught in Japanese. The College requires that students attain at least a 2.0 GPA on all major credits attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Code	Title	Credits
<b>Required</b> <sup>1</sup>		
JAPAN 301	Fifth Semester Japanese	4
JAPAN 302	Sixth Semester Japanese	4
JAPAN 401	Seventh Semester Japanese	4
JAPAN 402	Eighth Semester Japanese	4
Select one of the following:		3
JAPAN 330	Japanese Language and Culture	
JAPAN 331	Reading Japanese Short Stories	
JAPAN 355	Seminar in Japanese Literature and Culture:	
JAPAN 361	Translating Japanese Media	
JAPAN 441	Business Japanese I	
<b>Research</b>		
Select one of the following courses to satisfy the research requirement of the L&S degree:		3
JAPAN 351	Japanese Performance Traditions <sup>2</sup>	
JAPAN 355	Seminar in Japanese Literature and Culture: <sup>2</sup>	
JAPAN 361	Translating Japanese Media <sup>2</sup>	
JAPAN 500	Research and Research Writing in Japanese	
<b>Electives</b>		
Select 8 credits (see below) <sup>3</sup>		8
<b>Study Abroad</b>		
Study Abroad is strongly encouraged <sup>4</sup>		

**Total Credits** **30**

<sup>1</sup> Students whose language skills allow them to begin their study of Japanese beyond the fifth semester course must discuss with the

advisor appropriate substitute courses in order to complete the required 30 credits.

<sup>2</sup> Japanese majors wishing to use this course for the research requirement must notify the instructor that they will complete an independent research project.

<sup>3</sup> At least one course must be taken outside the Japan curricular area.

<sup>4</sup> Up to 12 credits from study abroad programs will be accepted for the major. Any language credits acquired from study abroad must not duplicate language credits acquired from classes taken at UWM.

## Electives

Code	Title	Credits
JAPAN 100	Introduction to Japanese Literature	3
JAPAN 110	Japanese Popular Culture	3
JAPAN 221	Japanese Film: Themes and Methods	3
JAPAN 297	Study Abroad:	1-12
JAPAN 310	Enhanced Knowledge & Skills for the Japanese Language Proficiency Test <sup>1</sup>	3
JAPAN 312	Japanese Conversation II	3
JAPAN 331	Reading Japanese Short Stories (if not selected above)	3
JAPAN 332	Extensive Reading in Japanese	1
JAPAN 345	Japanese News Media	3
JAPAN 351	Japanese Performance Traditions	3
JAPAN 352	Japanese Performance Traditions: Readings	1
JAPAN 355	Seminar in Japanese Literature and Culture:	3
JAPAN 361	Translating Japanese Media (if not selected above)	3
JAPAN 370	Fun Kanji	2
JAPAN 397	Study Abroad:	1-12
JAPAN 416	Introduction to Translation: Japanese to English	3
JAPAN 441	Business Japanese I (if not selected above)	3
JAPAN 489	Internship in Japanese, Upper Division	1-6
JAPAN 497	Study Abroad:	1-12
JAPAN 699	Advanced Independent Study	1-3
ANTHRO 325	Japanese Culture and Society	3
ARTHIST 383	Japanese Art and Architecture	3
HIST 284	Buddhism Across Asia	3

<sup>1</sup> No more than 3 credits of JAPAN 310 may count towards the total elective credits.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Japanese majors who meet the following requirements may apply to the undergraduate advisor to graduate with "Honors in the Major".

1. Maintain a 3.000 cumulative GPA on all UWM credits attempted;
2. Maintain a 3.500 GPA on all credits that count toward the major, and
3. Maintain a 3.500 GPA on all advanced credits that count toward the major.
4. Complete a research project in consultation with the major advisor. The project also serves to fulfill the L&S Research Requirement for the Japanese Major.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Comparative Literature, BA

In the Comparative Literature major, students examine literature across languages, geographic location, time periods, and genres. The discipline also explores the relationship between literature and other forms of cultural expression such as pop culture, technology, arts, music, or film, as well as the relationship between literature and other academic disciplines, like anthropology, history, religious studies, or women's and gender studies. It's a great major for anyone who loves to explore other cultures.

Students sometimes ask whether they need to be fluent in a foreign language in order to study comparative literature. Definitely not! While all of UWM's instructors and faculty in comparative literature do research in other languages, all Comparative Literature courses are taught entirely in English. Comparative Literature majors choose one of two paths - one path that requires some literature courses be taken in a foreign language program, or another path where all classes are taught in English.

Our alumni can be found working in university and K-12 education, the arts, politics, law, library services, publishing, social services, journalism and communications, editorial roles, marketing, fundraising, corporate sales, consulting, and many other fields. Their knowledge and skills in cross-cultural communication, critical analysis, reading and comprehension of complex text, and writing are highly valued.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		

ENGLISH 102	College Writing and Research (or equivalent)
-------------	--

### *Part B*

Course designated as OWC-B; may be completed through a major-specific course requirement

### **Quantitative Literacy**

#### *Part A*

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

### *Part B*

Course designated as QL-B; may be completed through a major-specific course requirement

### **Arts**

Select 3 credits 3

### **Humanities**

Select 6 credits 6

### **Social Sciences**

Select 6 credits 6

### **Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

### **UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### **UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or



3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	

POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. \*

#### Natural Sciences

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. \*

#### Cultural Diversity

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\*

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Major Requirements

The program welcomes prospective majors who have maintained a minimum 2.0 GPA in their language and literature courses. Prospective majors can declare the major online and then meet with the Comparative Literature coordinator, either in person or online. Students are assigned a Comparative Literature advisor in their primary areas of interest. The advisor helps students design plans of study tailored to their particular interests, academic goals, and professional aspirations.

Comparative literature majors are encouraged to take additional literature courses offered in languages other than English when possible. They also are encouraged to take additional courses outside of the program in the analysis of literature and other arts. In many cases, these courses may be counted toward the comparative literature major.

All Complit courses and approved electives that a student takes will count in calculating the major GPA. The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

The department offers two options for the major. Both major options require that, in their senior year, students complete a research project that focuses on major theoretical and critical trends in comparative literature. Students may fulfill this requirement by completing completing GLOBAL 550 with a research project on a comparative literature topic, or with a substitution approved by the Comparative Literature coordinator.

## Credit Requirements

A total of 36 credits is required for the major, including COMPLIT 207 and COMPLIT 208 and at least 24 credits at the advanced level (numbered 300 and above). At least 15 of the advanced credits must be taken in residence at UWM. Students may count toward the major up to 6 credits in the following selected in consultation with their advisor. Students will take 15 credits in Core and Foundation courses and 21 credits in either Option A or Option B for a total of 36.

Code	Title	Credits
Core and Foundation Courses		
COMPLIT 207	Global Literature from Antiquity to the 1600s:	3
COMPLIT 208	Global Literature from the 17th Century to the Present:	3
GLOBAL 550	Global Studies Integrated Capstone: <sup>1</sup>	3
Select 6 credits of lower level courses from the list below		6
COMPLIT 133	Contemporary Imagination in Literature and the Arts	
COMPLIT 135	Experiencing Literature in the 21st Century:	
COMPLIT 230	Literature and Society:	
COMPLIT 231	Literature and Religion:	
COMPLIT 232	Literature and Politics:	
COMPLIT 233	Literature and Film:	
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> To fulfill the Research Requirement in the College of Letters and Science in Comparative Literature, most students should take GLOBAL 550 and complete a research project on a comparative literature topic. The Research Requirement may also be met with a substitution approved by the Comparative Literature coordinator.

### Option A

This option is recommended particularly for students who intend to pursue graduate work in comparative literature. Option A students must complete the following:

Code	Title	Credits
<b>Required</b>		
Select 9-12 credits in Complit courses numbered 300 and above		9-12
1		
Select 9-12 credits in advanced literature courses (numbered 300 and above) offered in a foreign language		9-12
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> If student takes 9 credits in COMPLIT, then the student must take 12 credits of advanced literature course. If the student takes 9 credits of advanced literature courses, then the student must take 12 credits of COMPLIT courses.

### Option B

This option is offered for students with little if any training in a foreign language. Though such work normally is not considered as suitable preparation for graduate work in comparative literature, Option B offers training that is useful and applicable in many academic and professional fields. Option B students must complete the following:

Code	Title	Credits
<b>Required</b>		
	Select 12 additional credits in CompLit courses numbered 300 and above	12
	Select 9 credits in advanced courses (300 and above) in the analysis of literature or the other arts <sup>2</sup>	9
<b>Total Credits</b>		<b>21</b>

<sup>2</sup> Advanced courses (300 and above) in the analysis of literature or the other arts offered by CompLit or by other related departments and programs, with the approval of the CompLit advisor. This includes literature-in-translation courses offered by foreign language programs as well as courses in Art History, English, Film Studies, Philosophy, Religious Studies, or other disciplines that have as their focus the study of literature and/or the other arts

## Comparative Literature Advising

Students select a departmental advisor from Comparative Literature faculty and staff upon declaring a major or minor in Comparative Literature. Departmental advisors work closely with students to develop an individual course of study that will both match their interests and fulfill program requirements

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and

- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Comparative Literature, Minor

Students examine literature across languages, geographic location, time periods, and genres by pursuing the comparative literature minor. The discipline also explores the relationship between literature and other forms of cultural expression such as pop culture, technology, arts, music, or film, as well as the relationship between literature and other academic disciplines, like anthropology, history, religious studies, or women's and gender studies. It's a great major or minor for anyone who loves to explore other cultures.

Students sometimes ask whether they need to be fluent in a foreign language in order to study comparative literature. Definitely not! While all of UWM's instructors and faculty in comparative literature do research in other languages, all Comparative Literature courses are taught entirely in English.

## Requirements

The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The minor requires 18 credits, including the following:

Code	Title	Credits
COMPLIT 207	Global Literature from Antiquity to the 1600s:	3
COMPLIT 208	Global Literature from the 17th Century to the Present:	3
Select one of the following:		3
COMPLIT 133	Contemporary Imagination in Literature and the Arts	
COMPLIT 135	Experiencing Literature in the 21st Century:	
COMPLIT 230	Literature and Society:	
COMPLIT 231	Literature and Religion:	
COMPLIT 232	Literature and Politics:	
COMPLIT 233	Literature and Film:	
Select 9 credits at the advanced level (numbered 300 or above), which must be taken in residence at UWM		9
<b>Total Credits</b>		<b>18</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## French, BA

Develop global perspectives sought by companies, educational institutions and NGOs in the U.S., France and other French-speaking countries (Canada, Haiti, Belgium, Congo, etc.), and explore our many study abroad (<http://uwm.edu/cie/study-abroad/>) opportunities. Students who enter UWM with advanced French can earn both a bachelor's and master's in 5 years to become a translator/interpreter.

Fluency in French can provide a career advantage in all types of professions including business, medicine, law, the arts, politics, government work, and more. The country of France is a leader in science and high-tech, architecture, fashion, and cuisine, making French fluency valuable in these industries as well.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of French in order to successfully apply their fluency.

Student with no previous experience in French will start in the introductory French language class; those who have studied French in high school should take the placement exam to determine if they can start at a higher level. Students who place in a higher-level course who subsequently complete that course with a "B" or better may receive retroactive credits for the courses that were skipped.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	

MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

- Complete Foreign Language Requirement through:
  - Two years (high school) of a single foreign language
  - Two semesters (college) of a single foreign language
  - Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	
	Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)	

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Major Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

The major in French consists of 30 credits, at least 15 numbered above 303 taken in residence at UWM.

Code	Title	Credits
<b>Lower division courses</b>		
Select one of the following:		3
FRENCH 145	Views of France:	
FRENCH 192	First-Year Seminar:	
FRENCH 303	Conversation and Composition: Intermediate Level	
<b>Complete the following three courses: <sup>1</sup></b>		
FRENCH 324	Contemporary French Language and Culture	3
FRENCH 325	Intensive Grammar and Usage	3
FRENCH 332	Reading French Texts	3
<b>French upper-division electives</b>		
Select 18 credits from the following:		18
FRENCH 357	Literature of the French-Speaking World in Translation: <sup>2</sup>	
FRENCH 392	Phonetics	
FRENCH 410	French Immersion: Advanced	
FRENCH 426	Growing Up French <sup>3</sup>	
FRENCH 427	Advanced Written Expression	
FRENCH 428	Castles, Cathedrals, and Common People: The Foundations of French Culture <sup>3</sup>	

FRENCH 429	Royalty, Reason, and Revolution: The Golden Age of French Culture <sup>3</sup>
FRENCH 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries <sup>3</sup>
FRENCH 431	Seminar in Literature of the Francophone World: <sup>3</sup>
FRENCH 432	Seminar in French and Francophone Cultures: <sup>3</sup>
FRENCH 433	Seminar in French Literature: <sup>3</sup>
FRENCH 450	Institutions and Culture of Contemporary France <sup>3</sup>
FRENCH 451	Cinema of the French-Speaking World: <sup>3</sup>
FRENCH 457	Topics in French and Francophone Studies in Translation: <sup>2</sup>
FRENCH 489	Internship in French
FRENCH 510	Seminar on Masterpieces of Literature Written in French: <sup>3</sup>
FRENCH 520	Seminar in Contemporary French Literature: <sup>3</sup>
FRENCH 592	Seminar in French Language: <sup>3</sup>

**Total Credits** **30**

<sup>1</sup> These courses may be taken in any order, including simultaneously.

<sup>2</sup> Only one course 'in translation' can be counted toward the 18 credits needed from this group to fulfill the major.

<sup>3</sup> Any of these designated courses can be used to satisfy the research requirement of the College of Letters and Science. Students enrolling in one of these courses and intending to use it to fulfill the research requirement should inform their instructor at the beginning of the semester.

### Additional requirements

All French majors are required to pass an advanced language proficiency examination, which they are advised to take in the second-to last semester of their BA.

## Advising

The French Faculty Advisor works closely with students to develop an individual course of study that fulfills program requirements, prepares them to meet their professional and educational goals, and incorporates opportunities to use French outside of the classroom when possible, including during international study abroad experiences or internships.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## French, Minor

Develop global perspectives sought by companies, educational institutions and NGOs in the US, France and other French-speaking countries (Canada, Haiti, Belgium, Congo, etc.), and explore our many study abroad (<http://uwm.edu/cie/study-abroad/>) opportunities. Students who enter UWM with advanced French can earn both a bachelor's and master's in 5 years to become a translator/interpreter. Fluency in French can provide a career advantage in all types of professions including business, medicine, law, the arts, politics, government work, and more. The country of France is a leader in science and high-tech, architecture, fashion, and cuisine, making French fluency valuable in these industries as well.

At UWM, language students receive an education in not just language fluency but also in the culture surrounding that language. Context matters in communication, and we believe it is important for students to understand the history, literature, and customs of native speakers of French in order to successfully apply their fluency.

Student with no previous experience in French will start in the introductory French language class; those who have studied French in high school should take the placement exam to determine if they can start at a higher level. Students who place in a higher-level course who subsequently complete that course with a "B" or better may receive retroactive credits for the courses that were skipped.

## Requirements

The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. At least 9 credits must be taken at the 300 level or above in residence at UWM.

The minor in French consists of a minimum of 18 credits as follows:

Code	Title	Credits
<b>Required</b>		
FRENCH 204	Fourth-Semester French (or equivalent)	3
FRENCH 303	Conversation and Composition: Intermediate Level (or equivalent)	3
FRENCH 332	Reading French Texts (or equivalent)	3
Select 9 credits in French literature, language, and culture above the 300 level		9
<b>Total Credits</b>		<b>18</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree

from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Global Studies, BA

UWM's Global Studies program uniquely offers students a blend of courses across disciplines and across colleges at UWM in preparation for a career abroad or within the U.S. that works on matters that cross borders and cultures. Our increasingly interconnected world demands future leaders who have global knowledge and skills including the ability to analyze problems from multiple perspectives and incorporate solutions that are inclusive of different viewpoints and cultures. Interpersonal and intercultural communication skills are also developed through our program as well as advanced competency in a language other than English.

These characteristics are valued by employers across industries and professions and are the launching pad for lifelong career growth and adaptability. There is no single job outcome for global studies graduates - you will find our alumni in all types of positions in locations around the globe. We have alumni who own international start-ups, some who work in a business management role at large multinational corporations, and others who have joined the Peace Corps or an NGO in social service types of positions.

To better serve the diverse career interests of our students, Global Studies majors choose from one of five tracks:

Global Communications - with a focus on language, culture and the technology of modern, global communication (by meeting certain requirements, students can receive a joint degree from both the College of Letters & Science and the College of Community Engagement & Professions)

Global Management - focusing on business and the world economy (a joint degree between the College of Letters & Science and the Sheldon B. Lubar College of Business)

Global Security - dealing with aspects of conflict and change such as water resources, war, human rights, borders, and global health

Global Sustainability - students develop expertise in matters of the environment and government systems

Global Health - a track for students interested in global careers in healthcare, international aid, healthcare policy, international health education, health outreach, and international health regulations (by meeting certain requirements, students can receive a joint degree from both the College of Letters & Science and the College of Health Professions & Sciences)

Students often wonder what the differences are between the Global Studies major and the International Studies major. International Studies is a more traditional broad liberal arts program that does not offer the specialties mentioned above. Courses from the College of Business,



the College of Community Engagement & Professions or the College of Health Professions & Sciences cannot count toward the International Studies major like they can for the Global Studies major. Additionally, the Global Studies major requires a higher level of world language fluency (through the sixth semester) and requires an international experience such as study abroad, an international internship, or an internship that takes place domestically but with an international aspect.

## Major Requirements

To earn the Bachelor of Arts in Global Studies, students in all tracks must complete 120 credits, including a minimum of 36 credits in upper-division courses (numbered 300 or above), while fulfilling the requirements below. GPAs of at least 2.000 overall and 2.500 in the selected track are required for graduation. Students also are responsible for completing the University-wide General Education Requirements (p. 30).

Beyond the University-wide General Education requirements, students must also complete an additional 6 credits of Humanities GER courses and an additional 6 credits of Social Science GER courses, some of which are required or elective courses in the major.

Code	Title	Credits
<b>Global Studies Core</b>		
GLOBAL 101	Introduction to Global Studies I: People and Politics (SS)	3
GLOBAL 201	Introduction to Global Studies II: Economics and the Environment (SS)	3
GLOBAL 202	Introduction to Global Studies III: Globalization and Technology (SS)	3
<b>Global Studies Capstone</b> <sup>1</sup>		
GLOBAL 550	Global Studies Integrated Capstone:	3
<b>World Regions</b>		
Select one of the following:		3
GEOG 110	The World: Peoples and Regions (SS)	
HIST 132	World History Since 1500 (HU)	
POL SCI 106	Politics of the World's Nations (SS)	
<b>Foreign Language</b>		
Six semesters (or equivalent) of a single foreign language with passing grades		
<b>International Experience</b>		
Students will be required to complete 2 of the options below:		
Option 1: 3-9 credits of study abroad		
Option 2: 1-6 credits of an international internship		
Option 3: 1-6 credits of a domestic internship with a global organization or clear international focus		
Total International Experience Credits		12
<b>Tracks</b>		
Select one of the following tracks:		
Global Communications		
Global Health		
Global Management		
Global Security		
Global Sustainability		
<b>Total Credits</b>		<b>27</b>

<sup>1</sup> GLOBAL 550 is required for all tracks except Global Management, which has a separate capstone experience.

## Tracks Core Curricula

Additional requirements designated for each track appear in the sections below. Under track core curriculum, students are required to complete only the requirements for their elected track.

### Global Communications Track

To earn the Bachelor of Arts in Global Studies through the Global Communications track, students must complete the following requirements.

Code	Title	Credits
<b>Global Communications Track Core</b>		
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
GLOBAL 351	Language, Media, and Social Practice in Global Communications	3
GLOBAL 451	Access, Security, and Intercultural Contexts in Global Communications	3
Select two of the following:		6
BUS ADM 230	Introduction to Information Technology Management	
COMMUN 103	Public Speaking	
COMMUN 105	Business and Professional Communication	
ENGLISH 205	Business Writing <sup>1</sup>	
ENGLISH 206	Technical Writing <sup>1</sup>	
ENGLISH 214	Writing in the Professions: (with appropriate subtitle) <sup>1</sup>	
ENGLISH 431	Topics in Advanced Communications: (with appropriate subtitle) <sup>1</sup>	
ENGLISH 435	Rhetoric and Professional Writing <sup>1</sup>	
ENGLISH 436	Technical Documentation <sup>1</sup>	
ENGLISH 449	Internship in the Humanities <sup>1</sup>	
JAMS 201	Media Writing <sup>1</sup>	
INFOST 110	Introduction to Information Science and Technology	
INFOST 250	Introduction to Network and Systems Administration	
<b>Global Communications Track Electives</b>		
Select 27 credits (see below)		27
<b>Total Credits</b>		<b>45</b>

<sup>1</sup> At least one writing course must be selected.

### Global Communications Electives

Students must complete 27 credits from the following lists of courses, with a minimum of 15 credits taken from List A. There is no minimum number of credits that must be selected from Lists B-E. Electives from Lists C-E should be courses about the country or region in which the student will pursue language study and/or study abroad. Any individual course may count only once toward degree requirements. Students in this

track who are awarded their degree by L&S only must complete at least 36 credits in L&S upper-division (numbered 300 or above) courses.

### List A

(A minimum of 15 credits must be completed from the following):

Code	Title	Credits
AMLLC 216	Survey of Civilization: (with appropriate subtitle)	3
ANTHRO 349	Seminar in Ethnography and Cultural Processes	3
ANTHRO/LINGUIS 570	Issues in Bilingualism	3
ART 227	Design Workshop: (with appropriate subtitle)	3
ART 327	Digital Media Workshop: (with appropriate subtitle)	3
ART 309	Issues in Contemporary Art:	3
BUS ADM 230	Introduction to Information Technology Management (if not selected above)	4
BUS ADM 335	Introduction to Business Application Development	3
BUS ADM 360	Principles of Marketing	3
BUS ADM 465	International Marketing	3
BUS ADM 467	Marketing Seminar: (with appropriate subtitle)	3
BUS ADM 495	Special Topics in Business: (with appropriate subtitle)	1-3
BUS ADM 496	International Business	3
BUS ADM 530	Privacy and Information Security for Business	3
BUS ADM 532	Web Development for Open Business Systems	3
BUS ADM 533	Introduction to Connected Systems for Business	3
CHINESE 441	Business Chinese	3
COMMUN 192	First-Year Seminar: ("The Digital Mirror" subtitle)	3
COMMUN 313	Human Communication and Technology	3
COMMUN 350	Intercultural Communication	3
COMMUN 370	Quantitative Research in Communication	3
COMMUN 402	Gender and Communication	3
COMMUN 410	Organizational Communication Technology	3
COMMUN 413	Rhetoric and the Internet	3
COMMUN 450	Cross-Cultural Communication	3
COMMUN 550	International and Global Communication	3
COMMUN 655	Cultural Training and Adjustment	3
COMMUN 665	Introduction to Mediation	3
DANCE 122	African Dance & Diaspora Technique I	2-3
DANCE 370	World Movement Traditions:	2-3
ENGLISH 214	Writing in the Professions: (with appropriate subtitle) (if not selected above)	3
ENGLISH 431	Topics in Advanced Communications: (with appropriate subtitle) (if not selected above)	3
ENGLISH 435	Rhetoric and Professional Writing (if not selected above)	3
ENGLISH 436	Technical Documentation (if not selected above)	3
ENGLISH 437	Project Management for Professional Writers	3
ENGLISH 439	Information Design	3
ENGLISH 449	Internship in the Humanities (if not selected above)	1-4
FILM 203	Media Workshop: (with appropriate subtitle)	3
FILM 222	Digital Filmmaking	3
FILM 255	Introduction to Digital Arts	3
GEOG 215	Introduction to Geographic Information Science	3
GERMAN 425	Introduction to German Translation	3
GERMAN 474	German for Professional Purposes	3
GLOBAL 311	Contexts for Global Management	3
GLOBAL 541	Cross-Cultural Management	3
ITALIAN 313	Translation: Italian-English, English-Italian	3
JAMS 101	Introduction to Mass Media	3
JAMS 201	Media Writing (if not selected above)	3
JAMS 204	News Writing	3
JAMS 207	Introduction to Advertising and Public Relations	3
JAMS 231	Publication Design	3
JAMS 232	Photojournalism	3
JAMS 262	Principles of Media Studies	3
JAMS 307	Persuasive Media Writing and Production:	3
JAMS 320	News Reporting	3
JAMS 336	Media Graphics	3
JAMS 524	Advertising and Public Relations Campaigns	3
JAMS 562	Media Studies and Culture	3
INFOST 110	Introduction to Information Science and Technology (if not selected above)	3
INFOST 120	Information Technology Ethics	3
INFOST 240	Web Design I	3
INFOST 310	Human Factors in Information Seeking and Use	3
INFOST 330	Electronic Information Retrieval Systems	3
INFOST 340	Introduction to Systems Analysis	3
INFOST 410	Database Information Retrieval Systems	3
INFOST 430	Multimedia Application Development	3
INFOST 440	Web Application Development	3
LINGUIS 420	Introduction to Second Language Acquisition	3
LINGUIS 430	Language and Society	3

LINGUIS 441	Introduction to TESOL Methods	3	ENGLISH 404	Language, Power, and Identity	3
LINGUIS 510	Methodologies in English Language Teaching	3	ENGLISH 434	Editing and Publishing	3
PEACEST 203	Introduction to Peace and Conflict Studies	3	ENGLISH 465	Women Writers: (with appropriate subtitle)	3
RUSSIAN 419	Introduction to Translation: Russian to English	3	ENGLISH 627	Seminar in Literature and Culture: (with appropriate subtitle)	3
SOCIOL 327	Data, Technology, and Society	3	ENGLISH 630	Seminar in Literature and the Other Arts: (with appropriate subtitle)	3
SPANISH 348	Introduction to Translation: English to Spanish	3	FILM 116	Listening and Recording	3
TRNSLTN 201	Introduction to Translation and Interpreting Studies	3	FILM 201	Introduction to Experimental Media Arts	3
TRNSLTN 400	Consecutive Interpreting	3	FILMSTD/ARTHIST/ ENGLISH 111	Entertainment Arts: Film, Television, and the Internet	3
TRNSLTN 411	Ethics in Translation and Interpreting	3	HIST 372	Topics in Global History: (with appropriate subtitle)	3
TRNSLTN 422	Simultaneous Interpreting	3	INFOST 150	Introduction to Information Resources on the Internet	3
TRNSLTN 450	Community Interpreting and Translation	3	INFOST 210	Information Resources for Research	3

**List B***Topical Electives:*

Code	Title	Credits	Code	Title	Credits
ANTHRO 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3	INFOST 250	Introduction to Network and Systems Administration	3
ANTHRO 543	Cross-Cultural Study of Religion	3	INFOST 691	Special Topics in Information Science: (with appropriate subtitle)	3
ART 118	Digital Arts: Culture, Theory, Practice	3	INTLST 550	Senior Seminar in International Studies: (with appropriate subtitle)	3
ART 317	3D Environments and XR	3	JAPAN 331	Reading Japanese Short Stories	3
ARTHIST/ENGLISH/ FILMSTD 111	Entertainment Arts: Film, Television, and the Internet	3	JAMS 111	Gender and the Media	3
BUS ADM 330	Organizations	3	JAMS 113	Internet Culture	3
BUS ADM 436	Systems Analysis and Design	3	JAMS 116	Journalism, Documentary, and Democracy	3
COMPLIT 350	Topics in Comparative Literature: (with appropriate subtitle)	3	JAMS 280	Selected Topics in Mass Communication: (with appropriate subtitle)	3
COMPLIT 365	Literatures and Cultures of the Americas: (with appropriate subtitle)	3	JAMS 450	Race and Ethnicity in the Media	3
COMPLIT 461	Film-Fiction Interaction: (with appropriate subtitle)	3	JAMS 460	History of Mass Media	3
COMPSCI 112	Introduction to the Internet and the World Wide Web	3	JAMS 559	Freedom of Expression in the Digital Age	3
COMPSCI 113	Introduction to Web Document Production	3	JAMS 614	Seminar in Media and Public Opinion	3
COMPSCI 251	Intermediate Computer Programming	3	JAMS 615	Seminar in Media and Politics	3
ENGLISH/ARTHIST/ FILMSTD 111	Entertainment Arts: Film, Television, and the Internet	3	JAMS 620	Seminar in Global Media	3
ENGLISH 192	First-Year Seminar: (with appropriate subtitle)	3	LINGUIS 100	The Diversity of Human Language	3
ENGLISH 210	Global Englishes	3	LINGUIS 210	Power of Words	3
ENGLISH 253	Science Fiction: (with appropriate subtitle)	3	LINGUIS 350	Introduction to Linguistics	3
ENGLISH 290	Introduction to Film Studies	3	LINGUIS 468	Language in its Various Forms: (with appropriate subtitle)	3
ENGLISH 291	Introduction to Television Studies	3	MUSIC 327	Studio Techniques	3
ENGLISH 316	World Cinema: (with appropriate subtitle)	3	MUSIC 328	Interactive Electronic Music	3
ENGLISH 320	Studies in Film and Television Authorship: (with appropriate subtitle)	3	SPANISH 341	Introduction to Hispanic Linguistics	3
ENGLISH 394	Theories of Digital Culture: (with appropriate subtitle)	3			

**List C***Area Studies Electives:*

Code	Title	Credits
AFRIC 232	Survey of African Societies and Cultures	3
AFRIC 311	African Religious Thought and Social Organizations	3

AFRIC 320	Black Cultures in Latin America and the Caribbean	3
AFRIC 450	Cultural Transmissions: Black Africa and Black America	3
ANTHRO 320	Peoples and Cultures of Africa	3
ANTHRO 322	Europe in Anthropological Perspective	3
ANTHRO 325	Japanese Culture and Society	3
ANTHRO 326	Peoples and Cultures of South Asia	3
ARABIC 390	Islam: Religion and Culture	3
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3
HIST 378	Revolution in China	3
HIST 392	The History of Southern Africa	3
HIST 393	History of Mexico	3
HIST 395	History of Japan Since 1600	3
JEWISH 328	The Arab-Israeli Conflict	3
JEWISH 358	The Jews of Modern Europe: History and Culture	3
JEWISH 379	Introduction to Jewish History	3

**List D**

*Foreign Language Electives - Up to 6 credits beyond those taken to meet the foreign language requirement of upper-division courses (300 level or fifth semester and above) on contemporary culture or literature in a foreign language may count as electives for this track, provided that the language of instruction is not English. The following are recommended; however, see language program listings in this catalog for a complete list:*

Code	Title	Credits
CHINESE 320	Contemporary Chinese Societies through Film	3
FRENCH 324	Contemporary French Language and Culture	3
FRENCH 426	Growing Up French	3
FRENCH 427	Advanced Written Expression	3
FRENCH 431	Seminar in Literature of the Francophone World: (with appropriate subtitle)	3
FRENCH 432	Seminar in French and Francophone Cultures: (with appropriate subtitle)	1-3
FRENCH 450	Institutions and Culture of Contemporary France	3
FRENCH 592	Seminar in French Language: (with appropriate subtitle)	3
GERMAN 145	Views of Germany:	3
GERMAN 331	German Grammar in Practice	3
GERMAN 332	Presentation and Composition	3
GERMAN 333	Texts and Contexts	3
GERMAN 334	Introduction to German Studies	3
GERMAN 360	German for the Global World	3
GERMAN 415	Topics in German Studies: (with appropriate subtitle)	3
GERMAN 474	German for Professional Purposes	3
GERMAN 489	Internship in German, Upper Division	1-6
ITALIAN 312	Contemporary Italian Language and Culture	3

PORTUGS 360	Luso-Brazilian Culture: (with appropriate subtitle)	3
SPANISH 470	Survey of Hispanic Literature and Civilization	3
SPANISH 472	Survey of Spanish-American Literature and Civilization	3
SPANISH 474	Survey of Spanish Literature and Civilization	3
SPANISH 491	Topics in Hispanic Culture:	3

**List E**

*Literature-in-Translation – Credits in 100-level courses may be elected only prior to the student's study abroad:*

Code	Title	Credits
COMPLIT 208	Global Literature from the 17th Century to the Present: (subtitle)	3
COMPLIT 230	Literature and Society: (with appropriate subtitle)	3
COMPLIT 233	Literature and Film: (with appropriate subtitle)	3
COMPLIT 360	Seminar in Literature and Cultural Experience: (with appropriate subtitle)	3
COMPLIT 365	Literatures and Cultures of the Americas: (subtitle)	3
COMPLIT 457	Topics in French and Francophone Studies in Translation: (subtitle)	3
FRENCH 145	Views of France: (subtitle)	3
FRENCH 357	Literature of the French-Speaking World in Translation: (subtitle)	3
FRENCH 451	Cinema of the French-Speaking World: (with appropriate subtitle)	3
GERMAN 112	German Life and Civilization: Part II:	3
ITALIAN 145	Views of Italy: (with appropriate subtitle)	3
ITALIAN 245	Italy and Its Global Fictions: (with appropriate subtitle)	3
ITALIAN 258	Contemporary Italian Society and Culture	3
ITALIAN 329	Italian Cinema	3
ITALIAN 357	Topics in Italian Culture in Translation: (with appropriate subtitle)	3
ITALIAN 457	Topics in Italian Literature and Culture in Translation: (with appropriate subtitle)	3
JAPAN 200	Japanese Culture and Its Effect on Language	3
POLISH 236	Polish Culture in its Historical Setting	3
PORTUGS 225	Understanding Brazil: (with appropriate subtitle)	3
RUSSIAN 245	Russian Life and Culture	3
RUSSIAN 350	Dostoyevsky and Tolstoy in Translation: Major Works	3
RUSSIAN 391	Russian Literature and Culture in Translation:	3
SPANISH 225	Understanding the Hispanic World:	3

## Global Health Track

To earn the Bachelor of Arts in Global Studies through the Global Health track, students must complete the requirements listed below. Students in this track must complete at least 36 credits at the 300-level or higher, of which 24 credits must be in the College of Letters and Science.

Code	Title	Credits
<b>Global Health Track Core</b>		
NURS 301	Introduction to Global Health	3
PH 101	Introduction to Public Health	3
BMS 232	Introduction to Nutrition	3
NURS 401	Global Patterns of Disease	3
NURS 575	Global Health: Ethics and Human Rights	3
GLOBAL/ANTHRO 439	Culture and Global Health	3
Select one of the following:		3
ANTHRO 560	Introduction to Research Methods in Anthropology	
SOCIOL 361	Research Methods in Sociology	
Select three of the following:		9
HCA 502	Healthcare Delivery Systems: National and International Perspectives	
NURS 204	Global Maternal and Child Health: From Evidence to Action	
NURS 620	Global Food Security and Systems	
PH 303	Climate Change, the Environment and Human Health	
PH 319	Introduction to Health Disparities	
<b>Global Health Track Electives</b>		
Select 18 credits (see below)		18
<b>Total Credits</b>		<b>48</b>

## Global Health Electives

Code	Title	Credits
AFRIC 329	Economic Growth and Sustainable Development in Africa	3
AFRIC 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
ANTHRO 156	Food and Culture	3
ANTHRO 355	Globalization, Culture, and Environment	3
ANTHRO 440	Medical Anthropology	3
ANTHRO 442	Humanitarianism in Global Perspective	3
ANTHRO/GLOBAL 443	Medicine and Pharmaceuticals in the Global Age	3
ANTHRO 448	Cultural and Human Ecology	3
CES 210	Introduction to Conservation and Environmental Science	3
ECON 353	Economic Development	3
ETHNIC 375	Global Violence, Disease, and Death	3
GEOG 115	Globalization and Economic Development	3
GEOG 215	Introduction to Geographic Information Science	3
GEOG 304	Human Impact on the Environment	3
GEOG 350	Conservation of Natural Resources	3

GEOG 464	Environmental Problems	3
GEOG 520	Physical Geography of the City	3
GEOG 540	Globalization and the City	3
GEOG 564	Urban Environmental Change and Social Justice	3
GEO SCI 400	Water Quality	4
GLOBAL/ANTHRO 443	Medicine and Pharmaceuticals in the Global Age	3
HS 102	Healthcare Delivery in the United States	3
HCA 502	Healthcare Delivery Systems: National and International Perspectives (if not selected above)	3
NURS 101	Cultural Diversity in Health Care	3
NURS 204	Global Maternal and Child Health: From Evidence to Action (if not selected above)	3
NURS 620	Global Food Security and Systems (if not selected above)	3
NURS 683	Healthcare-Immigrants/Refugees	3
NURS 684	Death and Dying Around the World	3
NURS 690	Global Health Governance: Key Players, Financing and Challenges	3
NURS 708	Global Maternal and Child Health: From Evidence to Action	3
PHILOS 244	Ethical Issues in Health Care:	3
PHILOS 337	Environmental Ethics	3
POL SCI 374	Health, Wealth, and Democracy	3
PH 101	Introduction to Public Health (if not selected above)	3
PH 303	Climate Change, the Environment and Human Health (if not selected above)	3
PH 319	Introduction to Health Disparities (if not selected above)	3
PH 375	Topics in Public Health: (subtitle)	1-3
SOCIOL 103	World Society	3
SOCIOL 331	Sociology of Health Care	3
SPANISH 388	Health Issues in the Hispanic World	3

## Global Management Track

To earn the Bachelor of Arts in Global Studies through the Global Management track, students must fulfill the following requirements:

Code	Title	Credits
<b>Global Management Track Core</b>		
BUS ADM 201	Introduction to Financial Accounting	4
BUS ADM 210	Statistical Modeling in Business Analytics	4
BUS ADM 230	Introduction to Information Technology Management	4
BUS ADM 330	Organizations	3
BUS ADM 350	Principles of Finance	3
BUS ADM 360	Principles of Marketing	3
BUS ADM 465	International Marketing	3
BUS ADM 496	International Business (capstone)	3
ECON 103	Principles of Microeconomics	3

ECON 104	Principles of Macroeconomics	3
ECON 351	Introduction to International Economic Relations	3
ENGLISH 205	Business Writing	3
GLOBAL 541	Cross-Cultural Management	3
MATH 211	Survey in Calculus and Analytic Geometry I	4
or MATH 208	Quantitative Models for Business	
BUS ADM 535	Global Information Technology Management	3
or GLOBAL 311	Contexts for Global Management	
Select one of the following:		3
COMMUN 350	Intercultural Communication	
COMMUN 450	Cross-Cultural Communication	
COMMUN 550	International and Global Communication	

**Global Management Track Electives**

Select 9 credits (see below) 9

**Total Credits** 61**Global Management Electives**

Code	Title	Credits
BUS ADM 441	Diversity in Organizations	3
BUS ADM 456	International Financial Management	3
BUS ADM 467	Marketing Seminar: (with International Topic Only)	3
BUS ADM 495	Special Topics in Business: (with International Topic Only)	3
BUS ADM 535	Global Information Technology Management (if not selected above)	3
COMMUN 350	Intercultural Communication (if not selected above)	3
COMMUN 450	Cross-Cultural Communication (if not selected above)	3
COMMUN 365	Negotiation Skills Workshop	3
COMMUN 550	International and Global Communication (if not selected above)	3
COMMUN 665	Introduction to Mediation	3
ECON 325	Money and Banking	3
ECON 353	Economic Development	3
ECON 447	Labor Economics	3
ECON 454	International Trade	3
GERMAN 360	German for the Global World	3
GERMAN 474	German for Professional Purposes	3
GLOBAL 311	Contexts for Global Management (if not selected above)	3
GLOBAL 451	Access, Security, and Intercultural Contexts in Global Communications	3
JAMS 461	Media Ethics	3
POL SCI 316	International Law	3
POL SCI 330	The Politics of International Economic Relations	3
POL SCI 339	European Integration	3

POL SCI 343	Asian International Relations	3
POL SCI 346	U.S.-Latin American Relations	3

**Global Security Track**

To earn the Bachelor of Arts in Global Studies through the Global Security track, students must complete the requirements listed below. Students in this track must complete at least 36 credits in L&S upper-division (numbered 300 or above) courses.

Code	Title	Credits
<b>Global Security Track Core</b>		
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
ECON 210	Economic Statistics	3
or MTHSTAT 215	Elementary Statistical Analysis	
GLOBAL 371	Rethinking Global Security	3
Select one of the following:		3
GLOBAL/ANTHRO 442	Humanitarianism in Global Perspective	
GLOBAL 447	The Global Politics of Human Rights	
GLOBAL 471	Strategies for Realizing Security in Global Contexts	

Select one of the following: 3-4

ANTHRO 540	Applications of Anthropology	
ANTHRO 560	Introduction to Research Methods in Anthropology	
ANTHRO 561	Techniques and Problems in Ethnography	
GEOG 215	Introduction to Geographic Information Science	
GEOG 525	Geographic Information Science	
POL SCI 390	Political Data Analysis	
WGS 411	Women's and Gender Studies Research Methods: (with appropriate subtitle)	

Select one of the following: 3

COMMUN 365	Negotiation Skills Workshop	
COMMUN 665	Introduction to Mediation	

**Global Security Track Electives**

Select 24 credits (see below) 24

**Total Credits** 45-46**Global Security Electives**

Students must complete 24 credits from the following lists, with at least 15 credits selected from List A. There is no minimum number of credits that must be taken from List B.

**List A Electives**

Code	Title	Credits
ANTHRO 156	Food and Culture	3
ANTHRO 355	Globalization, Culture, and Environment	3
ANTHRO 440	Medical Anthropology	3
ANTHRO/GLOBAL 447	The Global Politics of Human Rights	3
ANTHRO 448	Cultural and Human Ecology	3
ANTHRO 449	The Human Economy	3
ANTHRO 450	Political Anthropology	3
ANTHRO 543	Cross-Cultural Study of Religion	3
ART 309/509	Issues in Contemporary Art:	3

BMS 232	Introduction to Nutrition	3
BMS 539	Public Health Microbiology	2
BMS 540	Public Health Microbiology Lab	2
CES 210	Introduction to Conservation and Environmental Science	3
COMMUN 350	Intercultural Communication	3
COMMUN 363	Communication in Human Conflict	3
COMMUN 365	Negotiation Skills Workshop (if not selected above)	3
COMMUN 450	Cross-Cultural Communication	3
COMMUN 550	International and Global Communication	3
COMMUN 631	Current Topics in Interpersonal Communication/Conflict Management: (with appropriate subtitle)	3
COMMUN 665	Introduction to Mediation (if not selected above)	3
COMPLIT 350	Topics in Comparative Literature: (with appropriate subtitle)	3
COMPLIT 365	Literatures and Cultures of the Americas:	3
CES 210	Introduction to Conservation and Environmental Science	3
CRM JST 291	Current Issues in Criminal Justice: (with appropriate subtitle)	3
CRM JST 410	Comparative Criminal Justice	3
ECON 351	Introduction to International Economic Relations	3
ECON 353	Economic Development	3
ENGLISH 443	Grant Writing	3
ETHNIC 350	Advanced Topics in Comparative Ethnic Studies: (with appropriate subtitle)	3
ETHNIC 375	Global Violence, Disease, and Death	3
GEOG 309	Nationalities and Nations of the World	3
GEOG 310	General Climatology	3
GEOG 333	Muslim Geographies: Identities and Politics	3
GEOG 350	Conservation of Natural Resources	3
GEOG 443	Cities of the World: Comparative Urban Geography	3
GEOG 464	Environmental Problems	3
GEOG 540	Globalization and the City	3
GEOG 564	Urban Environmental Change and Social Justice	3
GLOBAL 299	Ad Hoc: (with appropriate subtitle)	1-6
GLOBAL 421	Cities in the Global Economy	3
GLOBAL/ANTHRO 442	Humanitarianism in Global Perspective (if not selected above)	3
GLOBAL/ANTHRO 443	Medicine and Pharmaceuticals in the Global Age	3
GLOBAL/ANTHRO 447	The Global Politics of Human Rghts (if not selected above)	3
GLOBAL 499	Ad Hoc: (with appropriate subtitle)	1-6
HIST 210	The Twentieth Century: A Global History	3
NURS 101	Cultural Diversity in Health Care	3

NURS 301	Introduction to Global Health	3
NURS 365	Current Topics of Nursing: (with appropriate subtitle)	3
PEACEST 203	Introduction to Peace and Conflict Studies	3
PH 101	Introduction to Public Health	3
PH 375	Topics in Public Health: (with appropriate subtitle)	3
PHILOS 350	Introduction to the Comparative Study of Religion	3
POL SCI 175	Introduction to International Relations	3
POL SCI 316	International Law	3
POL SCI 330	The Politics of International Economic Relations	3
POL SCI 337	International Organization and the United Nations	3
POL SCI 338	Seminar in International Relations: (with appropriate subtitle)	3
POL SCI 365	Theories and Methods in International Politics	3
POL SCI 370	International Conflict	3
POL SCI 371	Nationalism and Ethnic Conflict	3
RELIGST 350	Advanced Topics in Religious Studies: (with appropriate subtitle)	3
SOCIOL 235	Social Change in the Global Economy	3
SOCIOL 327	Data, Technology, and Society	3
SOCIOL 495	Seminar in Sociology: (with appropriate subtitle)	3
WGS 401	Global Feminisms	3
WGS 500	Advanced Social Science Seminar in Women's and Gender Studies: (with appropriate subtitle)	3

**List B Electives**

<b>Code</b>	<b>Title</b>	<b>Credits</b>
AFRIC 232	Survey of African Societies and Cultures	3
AFRIC 299	Ad Hoc: (with appropriate subtitle)	1-6
AFRIC 311	African Religious Thought and Social Organizations	3
AFRIC 320	Black Cultures in Latin America and the Caribbean	3
AFRIC 329	Economic Growth and Sustainable Development in Africa	3
AFRIC 450	Cultural Transmissions: Black Africa and Black America	3
AFRIC 565	Selected Texts/Topics in African & African Diaspora Studies: (with appropriate subtitle)	3
ANTHRO 250	Women's Roles in Cross-Cultural Perspective	3
ANTHRO 320	Peoples and Cultures of Africa	3
ANTHRO 322	Europe in Anthropological Perspective	3
ANTHRO 325	Japanese Culture and Society	3
ANTHRO 326	Peoples and Cultures of South Asia	3

ANTHRO 349	Seminar in Ethnography and Cultural Processes	3	HIST 434	The United States as a World Power in the 20th Century	3
ANTHRO 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3	INTLST 550	Senior Seminar in International Studies: (with appropriate subtitle)	3
BUS ADM 330	Organizations	3	INFOST 660	Information Policy	3
CHINESE 320	Contemporary Chinese Societies through Film	3	PHILOS 204	Introduction to Asian Religions	3
CIV ENG 492	Environmental Impact Assessment	3	POL SCI 255	Great Issues of Politics	3
COMPLIT 233	Literature and Film: (with appropriate subtitle)	3	POL SCI 300	Western European Politics	3
COMPLIT 461	Film-Fiction Interaction:	3	POL SCI 302	Politics of Eastern Europe	3
ECON 447	Labor Economics	3	POL SCI 325	Latin American Politics	3
ECON 454	International Trade	3	POL SCI 326	Brazilian Politics and Society	3
ECON 455	International Finance	3	POL SCI 328	The Arab-Israeli Conflict	3
ENGLISH 240	Rhetoric, Writing, and Culture: (with appropriate subtitle)	3	POL SCI 339	European Integration	3
ENGLISH 316	World Cinema: (with appropriate subtitle)	3	POL SCI 340	Politics of Nuclear Weapons	3
ENGLISH 431	Topics in Advanced Communications: (with appropriate subtitle)	3	POL SCI 343	Asian International Relations	3
ETHNIC 102	Transnational Migrations: People on the Move	3	POL SCI 346	U.S.-Latin American Relations	3
ETHNIC 250	Selected Topics in Ethnic Studies: (with appropriate subtitle)	3	POL SCI 423	Conduct of American Foreign Affairs	3
GEOG 213	Geography of Asia	3	SOC WRK 691	Practice Methods in Social Work: (with appropriate subtitle)	3
GEOG 215	Introduction to Geographic Information Science	3	SOCIOLOG 304	Political Sociology	3
GEOG 247	Quantitative Analysis in Geography	3	SOCIOLOG 325	Social Change	3
GEOG 309	Nationalities and Nations of the World	3	SOCIOLOG 330	Economy and Society	3
GEOG 330	Europe: East and West	3	WGS 200	Introduction to Women's and Gender Studies: A Social Science Perspective	3
GEOG 340	Biogeography	3			
GEOG 403	Remote Sensing: Environmental and Land Use Analysis	4			
GEOG 410	Gendered Geographies	3			
GLOBAL 699	Advanced Independent Study	3			
HIST 180	Latin American Society and Culture (with appropriate subtitle)	3			
HIST 192	First-Year Seminar: (with appropriate subtitle)	3			
HIST 200	Historical Roots of Contemporary Issues: (with appropriate subtitle)	3			
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3			
HIST 286	The Korean War	3			
HIST 287	The Vietnam War	3			
HIST 290	Topics in Global History: (with appropriate subtitle)	3			
HIST 372	Topics in Global History: (subtitle)	3			
HIST 375	Contemporary European History, 1945 to the Present	3			
HIST 378	Revolution in China	3			
HIST 392	The History of Southern Africa	3			
HIST 393	History of Mexico	3			
HIST 395	History of Japan Since 1600	3			

## Global Sustainability Track

To earn the Bachelor of Arts in Global Studies through the Global Sustainability track, students must complete 51-56 credits in the requirements listed below. Students in this track must complete at least 36 credits in upper-division (numbered 300 or above) courses, of which 24 credits must be in L&S.

Code	Title	Credits
<b>Global Sustainability Track Core</b>		
CES 210	Introduction to Conservation and Environmental Science	3
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
GLOBAL 361	Environment and Sustainability	3
GLOBAL 461	The Politics and Policy of Sustainability	3
Select one of the following:		3-4
ANTHRO 568	Introduction to Anthropological Statistics	
BUS ADM 210	Statistical Modeling in Business Analytics	
CHEM 221	Elementary Quantitative Analysis	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
MTHSTAT 215	Elementary Statistical Analysis	
Select two of the following:		6-10
BIO SCI 150	Foundations of Biological Sciences I	
BIO SCI 152	Foundations of Biological Sciences II	
BIO SCI 310	General Ecology	
CHEM 102	General Chemistry	



CHEM 104	General Chemistry and Qualitative Analysis
GEOG 105	Introduction to Human Geography
GEOG 120	Our Physical Environment
GEOG 125	Introduction to Environmental Geography
GEOG 140	Our Urban Environment: Introduction to Urban Geography
GEO SCI 100	Introduction to the Earth
GEO SCI 102	Principles of Historical Geology
GEO SCI 105	Earth, Air, Fire and Water
GEO SCI 106	The Earth Environment
GEO SCI 150	Introduction to Ocean Sciences

Select one of the following: 3

ED POL 602	Proposal Writing and Fundraising Skills for Community-Based Organizations
ED POL 605	Community-Based Organization Funding
ENGLISH 443	Grant Writing

Select one of the following: 3

GLOBAL 541	Cross-Cultural Management (jointly offered by Lubar)
COMMUN 310	Communication in Organizations
COMMUN 350	Intercultural Communication
COMMUN 365	Negotiation Skills Workshop
COMMUN 450	Cross-Cultural Communication
COMMUN 665	Introduction to Mediation

Select one of the following: 3

ANTHRO 355	Globalization, Culture, and Environment
ANTHRO 441	Nature, Knowledge, and Technoscience in Anthropological Perspective
BUS ADM 495	Special Topics in Business: (with appropriate subtitle)
CES 471	Practicum in Natural Resources Management
GEOG 464	Environmental Problems
HIST 432	North American Environmental History
PHILOS 337	Environmental Ethics

**Global Sustainability Track Electives**

Select 18 credits (see below) 18

**Total Credits 51-56**

**Global Sustainability Electives**

Code	Title	Credits
ANTHRO 355	Globalization, Culture, and Environment (if not selected above)	3
ANTHRO 431	Cities and Culture	3
ANTHRO 441	Nature, Knowledge, and Technoscience in Anthropological Perspective (if not selected above)	3
ANTHRO 448	Cultural and Human Ecology	3
ANTHRO 449	The Human Economy	3
BIO SCI 310	General Ecology (if not selected above)	4
BIO SCI 458	Community Ecology	3

BIO SCI 505	Conservation Biology	3
BUS ADM 485	Environmental Issues in Real Estate	3
BUS ADM 495	Special Topics in Business: (with appropriate subtitle) (if not selected above)	3
CIV ENG 492	Environmental Impact Assessment	3
CES 471	Practicum in Natural Resources Management (if not selected above)	4
CES 499	Ad Hoc: (subtitle)	1-6
CES 550	Introduction to Science Interpretation	3
ECON 328	Environmental Economics	3
ECON 353	Economic Development	3
ECON 525	The Economics of Water	3
FRSHWTR 502	Aquatic Ecosystem Dynamics	3
FRSHWTR 504	Quantitative Freshwater Analysis	3
FRSHWTR 650	Topics in Freshwater Sciences: (with appropriate subtitle)	1-3
FRSHWTR 690	Undergraduate Seminar in Freshwater Sciences: (with appropriate subtitle)	1-3
GEOG 215	Introduction to Geographic Information Science	3
GEOG 304	Human Impact on the Environment	3
GEOG 350	Conservation of Natural Resources	3
GEOG 403	Remote Sensing: Environmental and Land Use Analysis	4
GEOG 415	Hydrogeography	3
GEOG 441	Geography of Cities and Metropolitan Areas	3
GEOG 443	Cities of the World: Comparative Urban Geography	3
GEOG 464	Environmental Problems (if not selected above)	3
GEOG 520	Physical Geography of the City	3
GEOG 540	Globalization and the City	3
GEOG 564	Urban Environmental Change and Social Justice	3
GEO SCI 400	Water Quality	4
GEO SCI 463	Physical Hydrogeology	4
GEO SCI 562	Environmental Surface Hydrology	3
GLOBAL 421	Cities in the Global Economy	3
IND ENG 590	Topics in Industrial and Systems Engineering: (with appropriate subtitle)	3
PH 375	Topics in Public Health: (with appropriate subtitle)	3
PHILOS 337	Environmental Ethics (if not selected above)	3
URBPLAN 315	Great Cities of the World: Their Growth and Guided Urbanization	3
URBPLAN 684	Planning Local Economic Development	3

**Graduation Survey & Post Study Abroad Assessment**

All Global Studies degree and minor students are required to complete an assessment assignment and a graduation survey upon completion of their required coursework. This assessment process allows Global

Studies students to reflect on their experience while providing important information to help improve the program.

The graduation survey is conducted online for a limited period of time during the fall, spring, and summer terms. Students who are about to complete or who have finished all coursework and need to take the survey should contact Christine Wolf (cawolf@uwm.edu).

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Global Studies Degree

Honors in the Global Studies Degree is different from all-university honors and signifies that a student has attained a significant level of

achievement in their specific academic program. While the exact number of students who receive Honors in the Global Studies Degree will vary from year to year, on average recipients can be considered to rank among the top 10% of Global Studies graduates. Eligibility requirements for Honors in the Global Studies Degree are:

- GPA of 3.000 or higher for all graded UWM credits attempted;
- GPA of 3.500 or higher for all courses required in the Global Studies degree;
- GPA of 3.750 or higher for all upper-level courses required in the Global Studies degree (minimum of 15 credits);
- GPA of 3.750 or higher for all Global courses (minimum of 18 credits).

Non-UWM/transfer credits are excluded from GPA calculations for Honors in the Global Studies Degree.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Global Studies, Minor

The Global Studies minor at UW-Milwaukee provides an integrated international education experience incorporating Global Studies courses, an overseas experience, foreign language, and other internationally focused coursework. It is a particularly attractive option for students wishing to add a global perspective to their major, no matter what it may be.

At UWM, the Global Studies minor is a rigorous program that incorporates classes across disciplines, a required experience abroad and foreign language study. This challenging and rewarding program prepares students to excel in a job market that demands knowledge across subject areas and a culturally sensitive approach. With this minor, students enhance their analytical, communication, foreign language, and cross-cultural knowledge. This modern skill set prepares tomorrow's young professionals for future careers in a wide variety of industries and for many different roles. Career choices immediately after college are often influenced by the hands-on experiences obtained during the college years. Students are encouraged to explore all of their options through

studying abroad or overseas internships, which may be completed for credit as part of the program. These overseas experiences, coupled with interdisciplinary coursework, often open up new opportunities, making the Global Studies minor a dynamic and practical pairing with most majors at UWM.

## Requirements

A minimum of 9 credits for the minor must be taken at the 300 level or above. These credits can include foreign language or additional study abroad coursework. At least 9 credits must be completed in residence at UWM. Credits earned in a UWM study abroad or exchange program count toward this requirement. No more than 9 credits from another major, minor, or certificate program may be counted toward the Global Studies minor. The College of Letters & Science requires that students achieve at least a 2.0 cumulative GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including transfer work.

The Global Studies Minor consists of at least 18 credits, distributed as follows:

Code	Title	Credits
<b>Global Studies Core</b>		
Select 6 credits from the following:		6
GLOBAL 101	Introduction to Global Studies I: People and Politics (SS)	
GLOBAL 201	Introduction to Global Studies II: Economics and the Environment (SS)	
GLOBAL 202	Introduction to Global Studies III: Globalization and Technology (SS)	
<b>World Language</b>		
Complete the fourth semester or more advanced course in a world language at the university level <sup>1</sup>		3
<b>Study Abroad</b>		
Complete at least three credits of one of the following with approval from a Global Studies advisor:		3
Overseas academic experience		
Internship outside of the U.S.		
<b>Global Content Electives <sup>2</sup></b>		<b>6</b>
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> The language requirement may be filled in one of the following ways:

- The student may take four semesters of one world language at UWM to meet this requirement; or
- The student must successfully complete at least one 3-credit, university-level foreign language course of the fourth semester of a world language or a world language course at a higher level than the fourth semester. The student will thereby demonstrate the equivalent of having taken four years of that world language at the university level.

<sup>2</sup> Select six credits from the list below.

## Approved Global Content Electives

Additional electives may be approved by a Global Studies advisor.

Code	Title	Credits
AFRIC 232	Survey of African Societies and Cultures	3
AFRIC 311	African Religious Thought and Social Organizations	3
AFRIC 320	Black Cultures in Latin America and the Caribbean	3
AFRIC 329	Economic Growth and Sustainable Development in Africa	3
AFRIC 565	Selected Texts/Topics in African & African Diaspora Studies: (with appropriate subtitle)	3
AIS/ANTHRO/GLOBAL 362	System Failure: Globalization and Language Extinction	3
ANTHRO 250	Women's Roles in Cross-Cultural Perspective	3
ANTHRO 320	Peoples and Cultures of Africa	3
ANTHRO 326	Peoples and Cultures of South Asia	3
ANTHRO 349	Seminar in Ethnography and Cultural Processes	3
ANTHRO 355	Globalization, Culture, and Environment	3
ANTHRO/AIS/GLOBAL 362	System Failure: Globalization and Language Extinction	3
ANTHRO/GLOBAL 443	Medicine and Pharmaceuticals in the Global Age	3
ANTHRO 543	Cross-Cultural Study of Religion	3
ARABIC 390	Islam: Religion and Culture	3
COMMUN 350	Intercultural Communication	3
COMMUN 450	Cross-Cultural Communication	3
COMMUN 550	International and Global Communication	3
COMMUN 631	Current Topics in Interpersonal Communication/Conflict Management: (with appropriate subtitle)	3
COMMUN 655	Cultural Training and Adjustment	3
CES 210	Introduction to Conservation and Environmental Science	3
COMPLIT 230	Literature and Society: (with appropriate subtitle)	3
COMPLIT 360	Seminar in Literature and Cultural Experience: (with appropriate subtitle)	3
CRM JST 291	Current Issues in Criminal Justice: ("International Terrorism" subtitle)	1-3
ECON 351	Introduction to International Economic Relations	3
ECON 353	Economic Development	3
ECON 454	International Trade	3
ECON 455	International Finance	3
ENGLISH 316	World Cinema: (subtitle)	3
ETHNIC 250	Selected Topics in Ethnic Studies: (with appropriate subtitle)	3
FILMSTD/JEWISH 350	Global Jewish Film and Television: (subtitle)	3
FILMSTD 412	Global Cinema and Media: (subtitle)	3
FRENCH 426	Growing Up French	3

FRENCH 432	Seminar in French and Francophone Cultures: (with appropriate subtitle)	1-3	PHILOS 204	Introduction to Asian Religions	3
FRENCH 450	Institutions and Culture of Contemporary France	3	POLISH 236	Polish Culture in its Historical Setting	3
GEOG 213	Geography of Asia	3	POL SCI 300	Western European Politics	3
GEOG 309	Nationalities and Nations of the World	3	POL SCI 302	Politics of Eastern Europe	3
GEOG 330	Europe: East and West	3	POL SCI 310	Russian and Post-Soviet Politics	3
GEOG 350	Conservation of Natural Resources	3	POL SCI 316	International Law	3
GEOG 464	Environmental Problems	3	POL SCI 325	Latin American Politics	3
GEOG 540	Globalization and the City	3	POL SCI 330	The Politics of International Economic Relations	3
GERMAN 334	Introduction to German Studies	3	POL SCI 337	International Organization and the United Nations (or UN Summer Seminar)	3
GERMAN 415	Topics in German Studies: (with appropriate subtitle)	3	POL SCI 339	European Integration	3
GLOBAL 311	Contexts for Global Management	3	POL SCI 340	Politics of Nuclear Weapons	3
GLOBAL 351	Language, Media, and Social Practice in Global Communications	3	POL SCI 343	Asian International Relations	3
GLOBAL/AIS/ANTHRO 362	System Failure: Globalization and Language Extinction	3	POL SCI 346	U.S.-Latin American Relations	3
GLOBAL 371	Rethinking Global Security	3	POL SCI 359	Problems of American Foreign Policy	3
GLOBAL 421	Cities in the Global Economy	3	POL SCI 365	Theories and Methods in International Politics	3
GLOBAL/ANTHRO 443	Medicine and Pharmaceuticals in the Global Age	3	POL SCI 370	International Conflict	3
GLOBAL 447	The Global Politics of Human Rights	3	POL SCI 371	Nationalism and Ethnic Conflict	3
GLOBAL 451	Access, Security, and Intercultural Contexts in Global Communications	3	POL SCI 423	Conduct of American Foreign Affairs	3
GLOBAL 471	Strategies for Realizing Security in Global Contexts	3	PORTUGS 225	Understanding Brazil: (with appropriate subtitle)	3
GLOBAL 541	Cross-Cultural Management	3	PORTUGS 360	Luso-Brazilian Culture:	3
GLOBAL 699	Advanced Independent Study <sup>1</sup>	1-3	RUSSIAN 245	Russian Life and Culture	3
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3	SOCIO 235	Social Change in the Global Economy	3
HIST 287	The Vietnam War	3	SPANISH 225	Understanding the Hispanic World:	3
HIST 372	Topics in Global History: (with appropriate subtitle)	3	SPANISH 491	Topics in Hispanic Culture: (with appropriate subtitle)	3
HIST 378	Revolution in China	3	WGS 401	Global Feminisms	3
HIST 392	The History of Southern Africa	3			
HIST 393	History of Mexico	3			
HIST 395	History of Japan Since 1600	3			
HIST 434	The United States as a World Power in the 20th Century	3			
ITALIAN 245	Italy and Its Global Fictions: (subtitle)	3			
ITALIAN 258	Contemporary Italian Society and Culture	3			
ITALIAN 312	Contemporary Italian Language and Culture	3			
ITALIAN 329	Italian Cinema	3			
ITALIAN 357	Topics in Italian Culture in Translation: (with appropriate subtitle)	3			
ITALIAN 457	Topics in Italian Literature and Culture in Translation: (with appropriate subtitle)	3			
JAMS 562	Media Studies and Culture	3			
JAMS 620	Seminar in Global Media	3			
PEACEST 203	Introduction to Peace and Conflict Studies	3			

<sup>1</sup> With approval of Global Studies advisor.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

Global Studies minors will be advised by Christine Wolf and minor declaration can be made on the Global Studies website (<https://>

uwm.edu/global-studies/students/undergraduates/global-studies/declare-a-global-studies-minor/).

## Italian, BA

Italy has one of the ten largest economies in the world, and mastering Italian can open up a world of professional and personal opportunities.

Italian has more than 67 million native speakers worldwide. Some 120 million people speak Italian as a second language. In addition to serving as the official language of Italy, Italian is common in 29 countries, such as Switzerland, Germany, Belgium, North Africa, Brazil, Canada, and the United States.

Learning Italian serves as a gateway to a wide variety of career opportunities, in finance, marketing, journalism, translation, and computer programming. Italy is also a leader in the fields of air and water quality control, transportation technology, food and beverage fields, robotics, interior design and fashion.

The courses in the Italian Program are designed to help students become fluent in both the language and culture of Italy. On the very first day of class, students begin speaking Italian, and gain valuable communication skills as they progress through the Intermediate and advanced courses. Students may choose from an array of Italian courses on various topics that enable them to understand key turning points in Italian history, society and politics, cultural trends, and movements in such arts as film and literature. Italian courses contribute to such programs as Global Studies and the certificate program in Food Studies.

Students are also encouraged to participate in UWM's study abroad (<http://uwm.edu/cie/study-abroad/>) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	

### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

#### Quantitative Literacy

##### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

##### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

#### Arts

Select 3 credits 3

#### Humanities

Select 6 credits 6

#### Social Sciences

Select 6 credits 6

#### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

#### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

- Two years (high school) of a single foreign language
- Two semesters (college) of a single foreign language
- Or equivalent

#### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	

POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. \*

**Natural Sciences**

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. \*

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\*

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Major Requirements**

Students who wish to become Italian majors may do so by registering with the Italian Program Director. To be accepted and to continue as majors, students must maintain at least a 2.0 GPA in all Italian courses attempted at UWM. In addition, the College of Letters and Science requires students to attain a 2.0 GPA in all major credits attempted, including any transfer work.

Students who have never studied Italian should begin by taking Italian 103. Students who already have some knowledge of Italian should take the placement exam administered by the Italian Program to determine the language course suited to their skill level. Students placed in more advanced courses can receive up to 14 retroactive credits of Italian if they pass the course in which they are placed with a grade of B or better<sup>1</sup>.

**Course and Credit Requirements**

The major in Italian consists of 38 credits. All courses offered by the Italian Program count toward the major. Students are encouraged to take courses in other literatures and Comparative Literature. Up to 6 credits in courses offered in other departments can count toward the Italian major, with the approval of the program director.

At least 15 of the 38 total credits in Italian courses must be earned at the 300-level or above and taken in residence at UWM.

The credits are distributed as follows:

Code	Title	Credits
Select 14 credits of first- and second-year Italian language		14
Select both of the following courses		6
ITALIAN 258	Contemporary Italian Society and Culture	
ITALIAN 457	Topics in Italian Literature and Culture in Translation: <sup>2</sup>	
Select two of the following (these courses are not sequential)		6
ITALIAN 311	Advanced Conversation and Composition: Contemporary Italian Usage	
ITALIAN 312	Contemporary Italian Language and Culture	
ITALIAN 321	Introduction to Italian Literature	
ITALIAN 322	Introduction to Italian Literature and Film	
Select at least 6 additional credits in upper-level Italian electives		6
Select 6 additional credits in Italian, the courses below, or other approved electives.		6
ARTHIST 333	High Renaissance Art in Italy	
CLASSIC 202	Introduction to Roman Life and Literature	
CLASSIC 303	The Life and Literature of the Roman Empire	
CLASSIC 304	The Graeco-Roman World: (with appropriate subtitle/topic)	
<b>Total Credits</b>		<b>38</b>

<sup>1</sup> For students who do not earn retro credits, additional electives will be required to reach the total of 38 credits.

<sup>2</sup> ITALIAN 457, with a passing grade, satisfies the research requirement of the College of Letters and Science. Students will conduct independent research related to the general theme of the course, presenting their research in a final 10- to 12-page paper.

**Letters & Science Advising**

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Italian, Minor

Italy has one of the ten largest economies in the world, and mastering Italian can open up a world of professional and personal opportunities.

Italian has more than 67 million native speakers worldwide. Some 120 million people speak Italian as a second language. In addition to serving as the official language of Italy, Italian is common in 29 countries, such as Switzerland, Germany, Belgium, North Africa, Brazil, Canada, and the United States.

Learning Italian serves as a gateway to a wide variety of career opportunities, in finance, marketing, journalism, translation, and computer programming. Italy is also a leader in the fields of air and water quality control, transportation technology, food and beverage fields, robotics, interior design and fashion.

The courses in the Italian Program are designed to help students become fluent in both the language and culture of Italy. On the very first day of class, students begin speaking Italian, and gain valuable communication skills as they progress through the Intermediate and advanced courses. Students may choose from an array of Italian courses on various topics that enable them to understand key turning points in Italian history, society and politics, cultural trends, and movements in such arts as film and literature. Italian courses contribute to such programs as Global Studies and the certificate program in Food Studies.

Students are also encouraged to participate in UWM's study abroad (<http://uwm.edu/cie/study-abroad/>) program. Destinations are available in more than 70 sites around the world and vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Requirements

At least 9 credits must be taken at the 300 level or above in residence at UWM. The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

The Italian minor requires 18 credits distributed as follows:

Code	Title	Credits
ITALIAN 311	Advanced Conversation and Composition: Contemporary Italian Usage	3
ITALIAN 312	Contemporary Italian Language and Culture	3
Select 12 additional credits within the Italian curricular area, including courses in language (beyond the first year), literature, film, culture, and civilization		12
<b>Total Credits</b>		<b>18</b>



## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Japanese, Minor

As Japan is one of the five largest world economies, professional opportunities exist for individuals who are proficient in the Japanese language and who can understand and integrate into Japanese culture.

A minor in Japanese can part of the first step towards a career path in teaching, translation, interpretation, government relations, social services, the travel or hospitality industry, business, technology, finance or sales. Many students are also interested in careers related to Anime or computer technology, both large industries in Japan. A Committee Interdisciplinary Major with a focus in Japanese Language and Culture, combined with technology and science training, is excellent preparation for entry into those fields.

Many students now can find Japanese instruction in their high schools. At UWM, students can continue their high school studies or begin from the first semester of Japanese language instruction. We offer eight semesters of Japanese language plus the vitally important courses about Japanese culture, business practices, values, politics, history, and religions.

While the study of any Asian language is challenging for native English speakers because of their vast differences from English, students often find it is less difficult than they lead themselves to believe. Successful students of Japanese will dedicate the necessary daily time to practice and repeat...and practice and repeat.

Japan is a very popular destination for study abroad (<http://uwm.edu/cie/study-abroad/>), and Japanese majors are encouraged to take advantage of the opportunities available through UWM. Programs vary in length from a few week immersion, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during the second half of sophomore year or during their junior year.

## Requirements

The minor in Japanese consists of at least 18 credits. The College requires that students complete at least 9 credits of their minor in upper-division (numbered 300 or above) courses in residence at UWM to earn

a minor at UWM. The College also requires that students attain at least a 2.0 GPA on all minor credits attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Students entering with no previous Japanese language experience should enroll in JAPAN 101. Students entering with previous knowledge of, or high school preparation in, Japanese, or transfer students who have studied Japanese in other colleges, are assigned to courses on the basis of a departmental placement consultation with the Japanese program coordinator. Students placed into a course beyond the 101 level who complete their first course with a grade of at least a B may receive retroactive credits earned at the 200 level or above to a maximum of 16 credits, for the courses leading to the one into which they are placed.

Those who are able to begin their study of Japanese by placing into JAPAN 202 or above will take sufficient elective credits, approved by the Japanese language coordinator, to complete at least 18 credits in the minor with 9 credits at the 300 level or above.

The following (or equivalent or exemption) are required:

Code	Title	Credits
<b>Required</b>		
JAPAN 201	Third-Semester Japanese	5
JAPAN 202	Fourth-Semester Japanese	5
JAPAN 301	Fifth Semester Japanese	4
JAPAN 302	Sixth Semester Japanese	4
Select 3 credits from the courses listed below:		3
JAPAN 100	Introduction to Japanese Literature <sup>1</sup>	
JAPAN 110	Japanese Popular Culture <sup>1</sup>	
JAPAN 221	Japanese Film: Themes and Methods <sup>1</sup>	
JAPAN 310	Enhanced Knowledge & Skills for the Japanese Language Proficiency Test	
JAPAN 332	Extensive Reading in Japanese	
JAPAN 345	Japanese News Media	
JAPAN 351	Japanese Performance Traditions	
JAPAN 352	Japanese Performance Traditions: Readings	
JAPAN 355	Seminar in Japanese Literature and Culture:	
JAPAN 361	Translating Japanese Media	
JAPAN 370	Fun Kanji	
ANTHRO 325	Japanese Culture and Society	
ARTHIST 383	Japanese Art and Architecture	
HIST 284	Buddhism Across Asia <sup>1</sup>	
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> These 100- and 200-level courses may only be counted toward the minor if the student places into JAPAN 202 or beyond.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## History

The study of history involves all aspects of human experience throughout time. The Department of History offers a variety of courses, defined geographically, chronologically, and thematically, through which students acquire both broad and specialized knowledge of the past.

History courses are intended to transmit knowledge about various areas and periods, to address general historical problems, and to make students more capable of reading and analyzing both primary sources and secondary literature. Students learn how to collect information independently, to present material, and to construct arguments in a literate and cogent manner. Courses also are intended to make students more understanding of the complexity of human existence and the reality of human diversity, as well as more prepared to make informed and responsible decisions about issues in the world in which they live. These provide excellent training for professional careers in education, government, business, law, and social work, as well as advanced work in academics.

## Programs

- History, BA (p. 1107)
- History, MA (p. 1113)
- History, MA/Library and Information Science, MLIS (p. 1115)
- History, MA: Public History (p. 1117)
- History, Minor (p. 1121)
- History, PhD (p. 1124)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Marcus A. Allen	Assistant Professor	PhD	Morgan State University	✓	
Margo J. Anderson	Distinguished Professor Emerita	PhD	Rutgers University		✓
Joe Austin	Associate Professor Emeritus	PhD	University of Minnesota		✓
Russell H. Bartley	Professor Emeritus	PhD			✓
James Brundage	Professor Emeritus	PhD			✓
David D. Buck	Professor Emeritus	PhD			✓
Rachel Buff	Professor	PhD	University of Minnesota	✓	
Martha Carlin	Professor	PhD	University of Toronto	✓	
Greg Carter	Associate Professor	PhD	University of Texas at Austin	✓	
Winson Chu	Associate Professor	PhD	University of California-Berkeley	✓	
David DiValerio	Associate Professor	PhD	University of Virginia	✓	
Carolyn Eichner	Professor	PhD	University of California-Los Angeles	✓	
Christine Evans	Associate Professor	PhD	University of California-Berkeley	✓	
Marcus Filippello	Associate Professor	PhD	University of California-Davis	✓	
Thomas Haigh	Professor	PhD	University of Pennsylvania	✓	
J. David Hoeveler Jr.	Distinguished Professor Emeritus	PhD	University of Illinois		✓
Reginald Horsman	Distinguished Professor Emeritus	PhD			✓
Douglas Howland	Professor Emeritus	PhD	University of Chicago		✓
Nan Kim	Associate Professor	PhD	University of California-Berkeley	✓	
Marc V. Levine	Professor Emeritus	PhD	University of Pennsylvania		✓
Genevieve McBride	Professor Emerita	PhD			✓
Jeffrey W. Merrick	Professor Emeritus	PhD			✓
Neal H. Pease	Professor Emeritus	PhD	Yale University	✓	✓
Helena M. Pycior	Professor Emerita	PhD	Cornell University		✓
Lex Renda	Associate Professor	PhD	University of Virginia	✓	

Joseph A. Rodriguez	Professor	PhD	University of California-Berkeley	✓	
Ronald J. Ross	Professor Emeritus	PhD			✓
Nigel T. Rothfels	Professor	PhD	Harvard University	✓	
Kristin Ruggiero	Professor Emerita	PhD			✓
John H. Schroeder	UW System Distinguished Professor Emeritus	PhD			✓
Amanda I. Seligman	Professor	PhD	Northwestern University	✓	
Philip Shashko	Professor Emeritus	PhD			✓
Rebecca Shumway	Associate Professor	PhD	Emory University	✓	
Lisa Silverman	Professor	PhD	Yale University	✓	
Chia Vang	Professor	PhD	University of Minnesota	✓	
Walter B. Weare	Associate Professor Emeritus	PhD			✓
Merry E. Wiesner-Hanks	Distinguished Professor Emerita	PhD	University of Wisconsin-Madison		✓

## History, BA

Students of history do not just memorize the past. They ask questions about the past in order to solve problems of the present.

History is an original liberal arts field and is designed to prepare students for any type of profession that emphasizes critical analysis, reading of dense texts, creative problem-solving, and oral and written communication. History majors collect and analyze evidence to construct arguments, propose new interpretations, formulate conclusions, test hypotheses, and communicate new ideas.

There is no typical job for a history major. Our graduates can be found in all types of companies and in all types of roles, as well as graduate programs in history and other related humanities and social science fields. A student's career choices after college is often guided by how they applied their coursework to real world applications during college. Internships, part-time jobs, and volunteer experiences will help a student network during college and shape their career choices after graduation. The possibilities are numerous, and all students are encouraged to gain practical experience that complements the major.

At UWM, undergraduates can work on research projects such as the Encyclopedia of Milwaukee. The opportunity to participate in research as an undergraduate is a distinct advantage for UWM students. At most large, research universities, research opportunities for undergraduates are limited; there are fewer of them and they often are reserved for juniors or seniors. At UWM, you can get involved as early as freshman year. Students work directly with faculty and graduate students on their current research projects, and sometimes find themselves published in a peer-reviewed journal right alongside the faculty member. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

Students intending to major in history are encouraged to enroll in several 100- and 200-level courses. Students may combine a major in history with many of the certificate programs or with another departmental major.

History is also available at UWM as an online major - all of the classes for the major can be completed online if desired, or students can mix-and-match assorted online and traditional-format classes.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	

MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	0-18
	Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)	

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	9
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		
	Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
<b>Cultural Diversity</b>		
	Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## History Major Requirements

History majors must maintain a 2.0 GPA in all history credits attempted at UWM and a 2.0 GPA in all history credits attempted at all institutions attended, collectively. No more than 6 of the 36 credits applied to the major may be earned in independent study courses (HIST 199 or HIST 699). Note that in all courses taken in the major on a credit/no credit basis (whether applied to the major or not), regular letter grades are recorded on your transcript and are used in the calculation of your GPA. History majors must enroll in and complete least 18 credits in courses numbered 300 or above, of which 15 must be taken in residence at UWM.

*Note: Specific courses may count toward the fulfillment of more than one requirement. For example, HIST 101 counts toward the fulfillment of both requirement #1 and requirement #4.*

History majors are required to take 36 credits of coursework distributed as follows:

Code	Title	Credits
	1. Select at least 6 credits in European history <sup>1</sup>	6
	2. Select at least 6 credits in U.S. history <sup>1</sup>	6
	3. Select at least 9 credits in non-Western or global history <sup>1</sup>	9
	4. Select at least 3 credits in a course dealing with the period before 1500 <sup>1</sup>	3
	5. Electives	6
	6. Select at least one course in historical methods from the following:	3
HIST 294	Seminar on Historical Method: Research Techniques	
HIST 593	Seminar on Historical Method: Theory and Approach	
	7. Complete HIST 600	

HIST 600	Seminar in History. <sup>2</sup>	3
<b>Total Credits</b>		<b>36</b>

<sup>1</sup> Course lists delineating approved European, U.S., non-Western or global, and pre-1500 history courses offered at UWM are below.

<sup>2</sup> HIST 600 (meets the L&S requirement for a research experience in the major); prerequisite is HIST 294 or HIST 593). Students who complete the senior thesis (see below) may substitute the thesis courses for HIST 600.

**Students should pay particular attention to requirement #6. Students will not be permitted to enroll in HIST 600 until after they have taken and passed one of the courses in historical methods listed under #6. This sequence may not be reversed and students cannot take both courses in the same semester. Prospective majors should fulfill the methods requirement at an early stage of their progress in the curriculum, in no case later than the next-to-last semester before they plan to graduate.**

## Senior Thesis Option

Students choosing this two-semester sequence (HIST 681/HIST 682) write a substantial research paper on a topic of their choice in consultation with a faculty thesis advisor. The prerequisite for HIST 681 is at least one of the following courses: HIST 294 or HIST 593. Students also must receive approval from the faculty thesis advisor and department chair prior to enrolling. With the consent of the faculty thesis advisor and the department chair, history majors with a GPA of 3.333 (B+) or higher in all history credits attempted, including transfer work, may take the thesis sequence in lieu of Hist 600 to satisfy (in part) major requirements and the L&S research requirement. Access and print out the senior thesis proposal form (<http://uwm.edu/history/wp-content/uploads/sites/212/2016/01/senior-thesis-form.pdf>) (PDF).

## Independent Study

Independent study is not a substitute for courses regularly available in the curriculum. Students who wish to enroll in independent study (HIST 199 for freshmen and sophomores; HIST 699 for juniors and seniors) must have a minimum GPA of 2.500 in credits attempted at UWM. It is recommended that students work only with faculty members from whom they previously have taken regular classes. Students may not enroll in HIST 199 or HIST 699 for work already completed. When enrolling in HIST 199 or HIST 699, students shall select the section number of the faculty member who will supervise their work.

After consultation with the supervising faculty member, students must print out and complete an independent study form (<http://uwm.edu/history/wp-content/uploads/sites/212/2015/09/independentstudy.pdf>) (PDF). This form contains the description of the independent study proposal, and it should be completed during the first two weeks of the semester. The supervising faculty member must approve the proposal and return the signed form to the department office for endorsement by the department chair as well as by the Dean. A student should not take more than three credits of independent study in one semester from the same faculty member. **History majors may take no more than 6 of the required 36 credits in History in independent study, and a maximum of 3 credits of independent study may count toward the minor.**

## Ancient and Medieval History (Pre-1500) Requirements

The following courses satisfy the pre-1500 requirement of the History major:

Code	Title	Credits
HIST 101	Western Civilization: Ancient World to 1500	3
HIST 131	World History to 1500	3
HIST 175	East Asian Civilization to 1600	3
HIST 201	The Ancient World: The Near East and Greece	3
HIST 202	The Ancient World: The Roman Republic and Empire	3
HIST 203	The History of Medieval Europe: The Early Middle Ages	3
HIST 204	The History of Medieval Europe: The High Middle Ages	3
HIST 235	English History to 1688	3
HIST 274	Ancient Egyptian Civilization	3
HIST 280	Islamic Civilization: The Formative Period, ca. 500-1258	3
HIST 303	A History of Greek Civilization: The Greek City-State	3
HIST 304	A History of Greek Civilization: The Age of Alexander the Great	3
HIST 307	A History of Rome: The Republic	3
HIST 308	A History of Rome: The Empire	3
HIST 318	Medieval Civilization: The High Middle Ages	3
HIST 319	The Era of the Crusades	3
HIST 320	History of Medieval Warfare	3
HIST 376	Premodern China	3
HIST 394	History of Japan to 1600	3

The following variable topic courses satisfy the pre-1500 requirement of the History major if the specific topic deals preponderantly with the era prior to 1500:

Code	Title	Credits
HIST 192	First-Year Seminar:	3
HIST 193	First-Year Seminar:	3
HIST 199	Independent Study	1-3
HIST 200	Historical Roots of Contemporary Issues:	3
HIST 270	Topics in American History:	3
HIST 290	Topics in Global History:	3
HIST 296	UROPP Apprenticeship	1-3
HIST 297	Study Abroad:	1-12
HIST 299	Ad Hoc:	1-6
HIST 370	Topics in the History of Religious Thought:	3
HIST 371	Topics in European History:	3
HIST 372	Topics in Global History:	3
HIST 373	Topics in Gender and History:	3

HIST 398	Honors Seminar:	3
HIST 399	Honors Seminar:	3
HIST 400	Topics in Latin American and Caribbean History:	3
HIST 401	Topics in Middle Eastern History:	3
HIST 402	Topics in Asian History:	3
HIST 497	Study Abroad:	1-12
HIST 499	Ad Hoc:	1-6
HIST 594	Methods and Theory in the Historical Study of Religion:	3
HIST 600	Seminar in History:	3
HIST 681	Senior Thesis I	3
HIST 682	Senior Thesis II	3
HIST 699	Independent Reading:	1-6

Because individual student topics in Hist 600 can vary, that course, with the instructor's approval, may count toward the pre-1500 requirement for certain students, as determined by the predominant focus of their individual work in the course.

## Categorization of Courses by Geographic Area

The following lists indicate the geographic areas towards which courses count in the fulfillment of the major and minor requirements. (Note that some courses do not satisfy any of the geographic area distribution requirements and that for variable-topic courses, the geographic area is determined by the specific topic).

### European History

Code	Title	Credits
HIST 101	Western Civilization: Ancient World to 1500	3
HIST 102	Western Civilization: 1500 to the Present	3
HIST 201	The Ancient World: The Near East and Greece	3
HIST 202	The Ancient World: The Roman Republic and Empire	3
HIST 203	The History of Medieval Europe: The Early Middle Ages	3
HIST 204	The History of Medieval Europe: The High Middle Ages	3
HIST 206	Europe and the Modern World: 1815 to the Present	3
HIST 235	English History to 1688	3
HIST 236	Britain Since 1688: Rise and Decline of a Great Power	3
HIST 239	Poland and its Neighbors, 1795-1914	3
HIST 241	Women and Gender in Europe: 1350 to 1750	3
HIST 242	Women and Gender in Europe: 1750 to the Present	3
HIST 248	The First World War	3
HIST 249	The Second World War in Europe	3
HIST 303	A History of Greek Civilization: The Greek City-State	3

HIST 304	A History of Greek Civilization: The Age of Alexander the Great	3
HIST 307	A History of Rome: The Republic	3
HIST 308	A History of Rome: The Empire	3
HIST 318	Medieval Civilization: The High Middle Ages	3
HIST 319	The Era of the Crusades	3
HIST 320	History of Medieval Warfare	3
HIST 329	The Roman Catholic Church, 1500 to the Present	3
HIST 330	The Papacy in History	3
HIST 341	Imperial Russia	3
HIST 343	Russia Since 1917	3
HIST 346	Poland and Its Neighbors, 1914-1945	3
HIST 348	Poland and Its Neighbors, 1945 to the Present	3
HIST 355	Modern and Contemporary France	3
HIST 358	The Jews of Modern Europe: History and Culture	3
HIST 363	Germany: Hitler and the Nazi Dictatorship	3
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3
HIST 371	Topics in European History:	3
HIST 375	Contemporary European History, 1945 to the Present	3

### U.S. History

Code	Title	Credits
HIST 150	Multicultural America	3
HIST 151	American History: 1607 to 1877	3
HIST 152	American History: 1877 to the Present	3
HIST 215	History of Capitalism	3
HIST 229	History of Race, Science, and Medicine in the United States	3
HIST 243	History of Women in American Society	3
HIST 262	North American Indian History to 1887	3
HIST 263	North American Indian History Since 1887	3
HIST 267	The History of Latinos in the United States	3
HIST 268	History of the American West	3
HIST 269	Asian Americans in Historical Perspective	3
HIST 270	Topics in American History:	3
HIST 271	The 1960s in the United States: A Cultural History	3
HIST 404	Topics in American History:	3
HIST 405	The Age of the American Revolution, 1750-1789	3
HIST 409	Causes of the Civil War, 1828-1861	3
HIST 410	Civil War and Reconstruction: The United States, 1861-1877	3

HIST 418	America in Prosperity, Depression and War, 1921-1945	3	HIST 376	Premodern China	3
HIST 419	America Since 1945	3	HIST 377	Modern China	3
HIST 432	North American Environmental History	3	HIST 378	Revolution in China	3
HIST 434	The United States as a World Power in the 20th Century	3	HIST 379	Introduction to Jewish History	3
HIST 435	Ethnic America: To 1880	3	HIST 380	Buddhism: A Cultural History	3
HIST 436	Immigrant America Since 1880	3	HIST 386	Africans in World History: Communities, Cultures, and Ideas	3
HIST 440	History of the American Working Classes	3	HIST 387	Colonization in Africa: A History of Resistance and Adaptation	3
HIST 442	Beer and Brewing in America	3	HIST 392	The History of Southern Africa	3
HIST 445	African Americans from Slavery to Freedom	3	HIST 393	History of Mexico	3
HIST 446	African Americans Since the Civil War	3	HIST 394	History of Japan to 1600	3
HIST 448	Baseball in American History	3	HIST 395	History of Japan Since 1600	3
HIST 449	Popular Culture in America, 1800 to the Present	3	HIST 400	Topics in Latin American and Caribbean History:	3
HIST 450	The History of Milwaukee	3	HIST 401	Topics in Middle Eastern History:	3
HIST 451	History of Wisconsin	3	HIST 402	Topics in Asian History:	3
HIST 452	History of Religion in American Life to 1870	3	HIST 596	Maps as Historical Sources	3
HIST 453	History of Religion in American Life Since 1870	3	HIST 396	Decolonization, Revolution, and Independence in African History	3
HIST 460	The History of Poverty in America	3	PORTUGS 360	Luso-Brazilian Culture: (Topic: "History of Brazil") <sup>1</sup>	3
HIST 463	History of the American City	3	WGS 501	Advanced Humanities Seminar in Women's and Gender Studies: (Topic: "Women, Gender, & Global Revolutions") <sup>1</sup>	3
HIST 468	The American Feminist Movement	3			
HIST 473	History of Wisconsin Indians	3			
HIST 474	Topics in North American Indian History:	3			
HIST 475	American Indian History, Law, and Government	3			
HIST 597	Fields and Methods in Public History	3			

## Non-Western or Global History

Code	Title	Credits
HIST 131	World History to 1500	3
HIST 132	World History Since 1500	3
HIST 141	Global History of the Family, Gender, and Sexuality	3
HIST 175	East Asian Civilization to 1600	3
HIST 176	East Asian Civilization Since 1600	3
HIST 180	Latin American Society and Culture	3
HIST 210	The Twentieth Century: A Global History	3
HIST 274	Ancient Egyptian Civilization	3
HIST 280	Islamic Civilization: The Formative Period, ca. 500-1258	3
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3
HIST 284	Buddhism Across Asia	3
HIST 286	The Korean War	3
HIST 287	The Vietnam War	3
HIST 290	Topics in Global History:	3
HIST 295	Historical Encounters:	3
HIST 372	Topics in Global History:	3

<sup>1</sup> These courses in other subjects may be used to fulfill requirements of the undergraduate major or minor in history.

## Geographic Area Determined by Specific Topic

Code	Title	Credits
HIST 192	First-Year Seminar:	3
HIST 193	First-Year Seminar:	3
HIST 199	Independent Study	1-3
HIST 200	Historical Roots of Contemporary Issues:	3
HIST 296	UROP Apprenticeship	1-3
HIST 297	Study Abroad:	1-12
HIST 299	Ad Hoc:	1-6
HIST 370	Topics in the History of Religious Thought:	3
HIST 373	Topics in Gender and History:	3
HIST 398	Honors Seminar:	3
HIST 399	Honors Seminar:	3
HIST 497	Study Abroad:	1-12
HIST 499	Ad Hoc:	1-6
HIST 594	Methods and Theory in the Historical Study of Religion:	3
HIST 600	Seminar in History:	3
HIST 681	Senior Thesis I	3
HIST 682	Senior Thesis II	3
HIST 699	Independent Reading:	1-6



The geographic area of concentration in sections of HIST 600, where the area is not obvious in the title, by default is designated in accordance with the primary teaching and research interests of the instructor. In such cases, and with the instructor's approval, HIST 600 can count toward different areas for different students, as determined by the predominant focus of their individual work in the course. Note that a variable topic course cannot be considered "Non-Western or Global" unless at least a substantial part of the course's focus includes the study of African, Asian, Middle Eastern, or Latin American history.

## No Geographic Area

Code	Title	Credits
HIST 289	Internship in History, Lower Division	1-6
HIST 294	Seminar on Historical Method: Research Techniques	3
HIST 296	UROP Apprenticeship	1-3
HIST 489	Internship in History, Upper Division	1-6
HIST 593	Seminar on Historical Method: Theory and Approach	3
HIST 595	The Quantitative Analysis of Historical Data	3

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## History Academic Advising

For academic advice, as well as for information on how to declare a major or minor in history, visit the undergraduate program web page of the Department of History at [uwm.edu/history/undergraduate/](http://uwm.edu/history/undergraduate/) (<http://uwm.edu/history/undergraduate/>).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## History, MA

The Department of History offers master's programs that prepare students for careers in teaching, in historical research, and in archives, historical agencies, museums, libraries and government.

The History Department offers four options at the master's level:

1. A general master's degree in History;
2. A general master's degree in History with a specialization in Urban Historical Studies for students who intend to pursue a PhD in Urban Studies or in Urban History;
3. A master's degree in Public History for those interested in museum work, archival administration and historic preservation (see the catalog entry for History MA: Public History (<https://catalog.uwm.edu/letters-science/history/history-public-ma/>));
4. A coordinated Master of Arts/Master of Library and Information Science degree program (see the catalog entry for History, MA/Library

and Information Science, MLIS (<https://catalog.uwm.edu/letters-science/history/history-ma-library-information-science-mlis/>).

The Department also participates in the interdisciplinary master's and doctoral programs in Urban Studies. For more information, see Urban Studies (p. 1312).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

To be considered for admission, an applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements:

1. An undergraduate minor or 18 credits in history or equivalent preparation.
2. Two letters of recommendation from persons familiar with the applicant's scholastic achievement and potential.
3. A sample of the applicant's written work that demonstrates their ability to conduct historical research and/or the ability to analyze critically the work of others.

Please visit the History department's website for information on the History Department Application (<http://www4.uwm.edu/letscli/history/graduate/gradapply.cfm>).

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted toward the degree.

### Advising

The Director of Graduate Studies provides initial advising for students in selecting courses and assists in selecting a Major Professor for long-term advising; the Director may assign a provisional graduate advisor before students select a Major Professor. Students are required to consult periodically with, and have their schedules approved by, the Director of Graduate Studies, the provisional advisor, or the Major Professor. The Major Professor normally serves as the chair of the student's academic review and supervises either the writing of the student's thesis or the student's reading for the comprehensive exam.

## Credits and Courses

### General History: Thesis Option

Minimum degree requirement is 30 graduate credits, at least 24 of which must be taken in History. Required credit distribution:

Code	Title	Credits
HIST 712 or HIST 713	Historiography and Theory of History Historical Research Methods	3
Select 6 credits in two colloquia <sup>1</sup>		6
Select 6 credits in two seminars		6

HIST 985	Master's Capstone (Thesis option students must take 6 credits)	6
Select 9 credits in electives in consultation with the student's advisor		9
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

### Academic Review and Thesis Prospectus

Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Thesis Option students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student's Major Professor and two other members of the History Graduate Faculty who will serve as secondary readers of the student's thesis. With the assistance of their Major Professor, the student must prepare a thesis prospectus in advance of the Review. The Review involves an evaluation of the student's academic progress in master's coursework, two unrevised course papers, and the thesis prospectus.

### General History: Master's Essay Option

Minimum degree requirement is 30 graduate credits, 24 of which must be taken in History. Required credit distribution:

Code	Title	Credits
HIST 712 or HIST 713	Historiography and Theory of History Historical Research Methods	3
Select 6 credits in two colloquia (800 numbers) <sup>1</sup>		6
Select 6 credits in two seminars (900 numbers)		6
HIST 985	Master's Capstone (Master's Essay Option students must take 3 credits)	3
Select 12 credits in electives in consultation with the student's advisor		12
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

### Master's Essay Requirements

Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, a colloquium and/or seminar), Master's Essay students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student's Major Professor and two other members of the History Graduate Faculty who will serve as examiners for the student's comprehensive exam. The Review involves an evaluation of the student's academic progress in master's coursework, two unrevised course papers, and a proposal for a Master's Essay.

A Master's Essay, in the form of an article of 7000+ words appropriate for submission to a popular or an academic history journal. The intended journal and its submission requirements should be included in the project proposal. The Master's Essay will be supervised by the student's graduate advisor. In addition, students taking the Master's Essay Option are required to create an additional scholarly resource that builds upon their article. Possible additional resources could include a lesson plan for use in the classroom with an annotated bibliography, materials for a conference poster presentation, a digital primary source collection,

or other option of the student's choosing. Students are encouraged to create an additional resource that contributes to their career goals. The Master's Essay option requires enrollment in 3 MA capstone credits. Students are responsible for submitting a proposal to their graduate advisor and securing the advisor's approval of their plans before enrolling in their MA capstone credits and beginning work. The History Graduate Program will also consider other MA capstone projects not listed above. Students interested in an alternative MA project are responsible for consulting with and securing approval from their advisor and the DGS before proceeding with an alternative project. Students who successfully propose an alternative MA project must take 3 but no more than 6 MA capstone credits.

### Urban Historical Studies Specialization

This specialization combines historical approaches with those of the social sciences in studying urban processes, organizations, and society. It is designed to meet the needs of students who intend to enter the interdisciplinary Urban Studies Ph.D. program or a similar program after completion of the Master of Arts degree. The Thesis Option is recommended for this specialization.

The minimum degree requirement is 33 graduate credits distributed in the following manner:

Code	Title	Credits
HIST 712 or HIST 713	Historiography and Theory of History Historical Research Methods	3
HIST 595	The Quantitative Analysis of Historical Data	3
Select 6 credits in History colloquia (800 numbered courses)		6
HIST 971	Seminar on the History of American Urban Problems	3
Select 3 additional credits in History seminars (900 numbered course)		3
HIST 985	Master's Capstone	6
Select three of the following:		9
URB STD 901	Urban Social Structure	
URB STD 913	Seminar in Urban Political Process	
URB STD 945	The Internal Structure of the City	
URB STD 921	Seminar: Research Methods in Urban Studies	
<b>Total Credits</b>		<b>33</b>

### Approved Cross-Listed Courses

WGS 501G, with the topic "Women, Gender, & Global Revolutions," counts as a History course.

### Additional Requirements

The History General MA, History MA/MLIS Coordinated Degree, and the Urban Historical Studies MA require the completion of a capstone to the degree program. This can take the form of either a traditional MA Thesis or a Master's Essay. For the History MA: Public History, students in all tracks *may* apply to complete a Master's Thesis if they so choose, but that option is intended primarily for those in the Cross-Disciplinary Studies Track with Thesis Option. Other Public History students pursuing the History MA: Public History will complete their degree capstone through their HIST 701 credits for the Graduate Internship in Public History.

### All MA capstones must:

- be initiated by a student's project proposal, approved by the student's faculty committee (for the MA Thesis option) or graduate advisor (for the Master's Essay option)
- engage with the relevant historiographical or theoretical literature
- justify the methodological choices reflected in the project
- integrate original research adequate to supporting the key arguments or project goals
- make an original contribution to one or more fields of historical scholarship
- clearly articulate its significance

### General History: Thesis Option

#### Thesis

The student must write an acceptable thesis.

#### Thesis Defense

The student must pass an oral examination in defense of the thesis.

#### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

### General History: Master's Essay Option

#### Master's Essay

The student must complete a Master's Essay and create an additional scholarly resource that builds upon their article.

#### Time Limit

The student must complete all degree requirements within five years of initial enrollment

### Urban Historical Studies Specialization

#### Thesis

A thesis is required in this specialization.

#### Thesis Defense

The student must pass an oral defense of the thesis.

#### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## History, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

### Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.

- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

## MLIS/MA History

The Master of Arts in History/Master of Library and Information Science program consists of 54 credits.

Graduates of the program are qualified to assume positions as archivists and staff members in libraries, museums, universities, governmental agencies, and industry. For those who pursue employment opportunities beyond archives in such institutions, knowledge of how to store, classify, and retrieve archival material will be a valuable set of skills that enhance the qualifications of the information professional.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

For the MLIS/MA in History, students complete a minimum of 54 credits total for both degrees. Within the coordinated degree program, the minimum requirement for the MA in History is 30 graduate credits, of which 24 must be within History. By completing 30 credits of coursework in SOIS and 24 credits of coursework in History, a student can combine the MLIS with the MA in History. Thus the MLIS/MA in History may be achieved with the completion of 54 credit hours, and the MA and MLIS degrees will be awarded simultaneously.

For the History, MA: Public History, students complete a minimum of 60 credits total for both degrees. The minimum degree requirement for completing the History MA with the Public History concentration is 36 graduate credits, 12 of which must be taken in General History courses, 12 in Public History courses, and the remaining 12 in the chosen area of specialization. Within the coordinated degree program the student may complete the degree requirements for the History MA with the concentration in Public History as follows: 12 credits in General History, 12 credits in Public History, and 6 credits in approved elective courses; the remaining 6 credits of specialization are to be fulfilled within the student's 30 credits of MLIS coursework. Thus, the MLIS/MA in History may be achieved with the completion of 60 credit hours, and the MA and MLIS degrees will be awarded simultaneously.

## Library and Information Science (MLIS) coursework

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science (Core Courses)	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3

INFOST 799	Research Methods in Information Studies	3
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Electives	
Select 6 credits in courses satisfying both History MA and MLIS requirements in consultation with faculty advisor	6
Select 12 additional credits in graduate SOIS courses in consultation with faculty advisor <sup>1</sup>	12
<b>Total Credits</b>	<b>30</b>

Code	Title	Credits
<b>Courses satisfying both History MA and MLIS requirements</b>		
INFOST 650G	An Introduction to Modern Archives Administration	3
INFOST 714	Metadata	3
INFOST 750	Arrangement and Description in Archives	3
INFOST 752	Archival Outreach: Programs and Services	3
INFOST 753	Preserving Information Media	3
INFOST 855	Advanced Appraisal	3

<sup>1</sup> Students pursuing the Public History option must select 6 of these credits of SOIS electives from the list of courses satisfying both the MA in History with a concentration in Public History and the MLIS. See table below under Public History.

## General History: Thesis Option

Code	Title	Credits
HIST 712 or HIST 713	Historiography and Theory of History Historical Research Methods	3
Select 6 credits in two colloquia (800-level courses) <sup>2</sup>		6
Select 6 credits in two seminars (900-level courses)		6
HIST 985	Master's Capstone	6
Select 3 credits in History electives in consultation with the student's advisor		3
<b>Total Credits</b>		<b>24</b>

## General History: Master's Essay Option

Code	Title	Credits
HIST 712 or HIST 713	Historiography and Theory of History Historical Research Methods	3
Select 6 credits in two colloquia (800-level courses) <sup>2</sup>		6
Select 6 credits in two seminars (900-level courses)		6
Select 9 credits in History electives in consultation with the student's advisor		9
<b>Total Credits</b>		<b>24</b>

<sup>2</sup> Students may take 3 credits of either HIST 716 or HIST 717 as a substitute for 3 credits in one colloquium.

## Public History

Code	Title	Credits
<b>General History</b>		
Select 6 credits in colloquia (800-level courses) <sup>3</sup>		6

Select 6 credits in seminars (900-level courses) <sup>3</sup> 6

**Public History**

Students are advised to complete these two courses in the first year:

HIST 700	Public History Seminar	3
HIST 715	Research Methods in Local History	3

Students also complete the following, generally taken at any point after the second semester:

HIST 701	Graduate Internship in Public History <sup>4</sup>	6
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Select 6 credits in History electives at the graduate level 6

Select 6 credits from among the following courses approved for both the MLIS and the MA in History: Public History (if not already taken to satisfy MLIS) 6

INFOST 650G	An Introduction to Modern Archives Administration	
INFOST 714	Metadata	
INFOST 750	Arrangement and Description in Archives	
INFOST 752	Archival Outreach: Programs and Services	
INFOST 753	Preserving Information Media	
INFOST 855	Advanced Appraisal	

**Total Credits** 30

<sup>3</sup> As a substitute for one colloquium or seminar, students may take 3 credits of either HIST 716 or HIST 717 or another appropriate course, which must be approved in advance by the Public History Director.

<sup>4</sup> Students must take a total of 6 credits of HIST 701, and this requirement is generally completed as two 3-credit internships. However, an individual internship may be taken for 1 to 6 credits. Unless granted an exception by the program faculty, students complete their 701 internship(s) after having taken both HIST 700 and HIST 715.

**Approved Cross-Listed Courses**

WGS 501G, with the topic "Women, Gender, & Global Revolutions," counts as a History course.

**Additional Requirements**

**General History: Thesis Option**

**Academic Review and Thesis Prospectus Hearing**

Thesis Option students are subject to an academic review along with their thesis prospectus hearing. The Review and Prospectus hearing is a one- to two-hour meeting involving the student, the student's Major Professor and two other members of the History Graduate Faculty who will serve as examiners for the student's thesis defense. With the assistance of their Major Professor, the student must prepare a prospectus for the thesis in advance of the Review. The Review involves an evaluation of the student's academic progress in master's coursework, two unrevised course papers, and the thesis prospectus.

**Thesis**

The student must write a thesis that conforms to the guidelines above and as established at the thesis prospectus hearing.

**Thesis Defense**

The student must pass an oral examination in defense of the thesis.

**General History: Master's Essay Option**

**Academic Review**

Within the first semester after completing 9 credits (including two of the following courses: HIST 712, HIST 713, HIST 712, HIST 713, a colloquium and/or seminar), Master's Essay students are subject to an academic review. The Review is a one- to two-hour meeting involving the student, the student's Major Professor and two other members of the History Graduate Faculty. The Review involves an evaluation of the student's academic progress in master's coursework, two unrevised course papers, and the Master's Essay.

**Public History**

Students doing the Public History option are not required to take a comprehensive exam nor write a thesis; instead, they complete the required 6 credits of HIST 701.

**Time Limit**

The student must complete all requirements for the coordinated degree within seven years of initial enrollment.

**Important**

You must refer to the catalog pages of the individual master's programs to ensure that you meet all requirements for both degrees.

**History, MA: Public History**

**Public History Graduate Program**

The Public History program curriculum combines graduate-level topical and methods courses in history, core courses in public history, courses in the student's area of specialization, and internships with public-history organizations in the Milwaukee region and beyond. Coursework and internships prepare students for careers in historical societies, museums, archives, libraries, nonprofit organizations, government, and other professional fields, or for entry into a public history PhD program.

The Public History Specialization enables students to earn a master's degree in history while specializing in one of the following tracks:

- Museum Studies
- Nonprofit Administration
- Historic Preservation
- Archives
- Cross#Disciplinary Studies with Thesis

For details on the curricular requirements of each track, click on the "Requirements" tab on this page and refer to the "Credits and Courses" section.

Alternatively, a student in the coordinated degree program may combine the MLIS and the MA in History with a specialization in Public History. For more information, see the History, MA/Library and Information Science, MLIS page. (p. 1115)

Although a majority of students in our program pursue the specialization in Public History at the master's level, it is also possible for PhD students in History to pursue a Public History minor. For more information about the PhD program, see the History, PhD page. (p. 1124)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

To be considered for admission, an applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements:

1. An undergraduate minor or 18 credits in history or equivalent preparation.
2. Two letters of recommendation from persons familiar with the applicant's scholastic achievement and potential.
3. A sample of the applicant's written work that demonstrates their ability to conduct historical research and/or the ability to analyze critically the work of others.

Please visit the History department's website for information on the History Department Application (<http://www4.uwm.edu/letsci/history/graduate/gradapply.cfm>).

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted toward the degree.

### Advising

The Director of Graduate Studies provides initial advising for students in selecting courses and assists in selecting a Major Professor for long-term advising; the Director may assign a provisional graduate advisor before students select a Major Professor. Students are required to consult periodically with, and have their schedules approved by, the Director of Graduate Studies, the provisional advisor, or the Major Professor. The Major Professor normally serves as the chair of the student's academic review and supervises either the writing of the student's thesis or the student's reading for the comprehensive exam.

### Museum Studies Track

Space is limited in this specialization, and students interested to enroll in this track must first be admitted to the History Department as an MA student with a concentration in Public History. Then prospective students must apply separately for admission to the Museum Studies Certificate Program (MSCP) (<https://uwm.edu/museum-studies/admissions/>).

### Cross-Disciplinary Studies with Thesis Track

Prospective students interested to pursue this track must contact the Public History Director prior to applying for admission to the MA program in History.

### Credits and Courses

Minimum degree requirement is 36 graduate credits, 12 of which must be taken in General History courses, 12 in Public History courses, and the remaining 12 in the chosen area of specialization. For students completing either the Museum Studies track or the Nonprofit

Administration track, an additional 3 credits in the area of specialization is required for a total of 39 credits.

Before matriculation, students should select a specialization:

- Museum Studies
- Nonprofit Administration
- Historic Preservation
- Archives
- Cross-Disciplinary Studies with Thesis

### Museum Studies Track

Space is limited in this specialization, and students interested to enroll in this track must first be admitted to the History Department as an MA student with a concentration in Public History. Then prospective students must apply separately for admission to the Museum Studies Certificate Program (MSCP) (<https://uwm.edu/museum-studies/admissions/>).

Code	Title	Credits
<b>General History</b>		
Select 6 credits in colloquia <sup>1</sup>		6
Select 6 credits in seminars <sup>1</sup>		6
<b>Public History</b>		
Students are advised to complete these two courses in the first year:		
HIST 700	Public History Seminar	3
HIST 715	Research Methods in Local History	3
Students also complete the following, generally taken at any point after the second semester:		
HIST 701	Graduate Internship in Public History <sup>2</sup>	6
<b>Specialization</b>		
ANTHRO 620G	Museum Fundamentals	3
ANTHRO 720	History and Theory of Museums	2
ANTHRO 721	Administration and Organization of Museums	3
ANTHRO 723	Museum Collections Management and Curation	3
ANTHRO 722	Visitor Experience Design in Museums	3
ANTHRO 725	Professionalism Capstone in Museum Studies	1
<b>Total Credits</b>		<b>39</b>

<sup>1</sup> As a substitute for one colloquium or seminar, students may take 3 credits of HIST 716, HIST 717 or another appropriate course, which must be approved in advance by the program director.

<sup>2</sup> Students must take a total of 6 credits of HIST 701, and this requirement is generally completed as two 3-credit internships. However, an individual internship may be taken for 1 to 6 credits. Unless granted an exception by the program faculty, students complete their 701 internship(s) after having taken both HIST 700 and HIST 715.

### Nonprofit Administration Track

Code	Title	Credits
<b>General History</b>		
Select 6 credits in colloquia <sup>1</sup>		6
Select 6 credits in seminars <sup>1</sup>		6
<b>Public History</b>		

Students are advised to complete these two courses in the first year:

HIST 700	Public History Seminar	3
HIST 715	Research Methods in Local History	3

Students also complete the following, generally taken at any point after the second semester:

HIST 701	Graduate Internship in Public History <sup>2</sup>	6
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**Specialization**

The following are required courses for this track:

BUSMGMT 721	Fundraising and Development for Nonprofit Organizations	3
BUSMGMT 724	Accounting for Nonprofit Organizations	3
NONPROF 725	Governance of Nonprofit Organizations	3

Students also select two of the following courses: 6

NONPROF 705	Professionals and Volunteers in Nonprofit Organizations <sup>3</sup>	
NONPROF 740	Executive Leadership of Nonprofit Organizations	
BUS ADM 766	Marketing for Nonprofit Organizations <sup>3</sup>	
NONPROF 791	Nonprofit Advocacy and Public Policy	
NONPROF 795	Introduction to Nonprofit Revenue Streams and Portfolios <sup>3</sup>	

**Total Credits 39**

<sup>1</sup> As a substitute for one colloquium or seminar, students may take 3 credits of HIST 716, HIST 717, or another appropriate course, which must be approved in advance by the program director.

<sup>2</sup> Students must take a total of 6 credits of HIST 701, and this requirement is generally completed as two 3-credit internships. However, an individual internship may be taken for 1 to 6 credits. Unless granted an exception by the program faculty, students complete their 701 internship(s) after having taken both HIST 700 and HIST 715.

<sup>3</sup> These electives are strongly recommended, but students with prior coursework or employment experience in nonprofit administration may opt for alternatives to one or more of these electives.

**Historic Preservation Track**

Code	Title	Credits
<b>General History</b>		
Select 6 credits in colloquia <sup>1</sup>		6
Select 6 credits in seminars <sup>1</sup>		6
<b>Public History</b>		
Students are advised to complete these two courses in the first year:		
HIST 700	Public History Seminar	3
HIST 715	Research Methods in Local History	3
Students also complete the following, generally taken at any point after the second semester:		
HIST 701	Graduate Internship in Public History <sup>2</sup>	6
<b>Specialization</b>		
These two courses must be taken within the first two years:		
ARCH 560G	Introduction to Historic Preservation (offered every other year)	3
ARCH 760	History of Building Technology (offered every other year)	3

Students select two of the following electives: 6

ARCH 550G	Seminar in Building Types and Settings
ARCH 551	American Vernacular Architecture
ARCH 562G	Preservation Technology Laboratory
ARCH 583G	Emerging Digital Technology:
ARCH 801	Special Topics: ("Practicum in Buildings-Landscapes-Cultures" and other approved subtitles)
ARTHIST 356G	American Architecture
ARTHIST 370G	Trends in Contemporary Architecture
ARTHIST 462G	Frank Lloyd Wright
ARTHIST 750	Colloquium in American Art:
ARTHIST 760	Colloquium in Modern Art/Architecture:

**Total Credits 36**

<sup>1</sup> As a substitute for one colloquium or seminar, students may take 3 credits of HIST 716, HIST 717, or another appropriate course, which must be approved in advance by the program director.

<sup>2</sup> Students must take a total of 6 credits of HIST 701, and this requirement is generally completed as two 3-credit internships. However, an individual internship may be taken for 1 to 6 credits. Unless granted an exception by the program faculty, students complete their 701 internship(s) after having taken both HIST 700 and HIST 715.

**Archives Track**

Code	Title	Credits
<b>General History</b>		
Select 6 credits in colloquia <sup>1</sup>		6
Select 6 credits in seminars <sup>1</sup>		6
<b>Public History</b>		
Students are advised to complete these two courses in the first year:		
HIST 700	Public History Seminar	3
HIST 715	Research Methods in Local History	3
Students also complete the following, generally taken at any point after the second semester:		
HIST 701	Graduate Internship in Public History <sup>2</sup>	6
<b>Specialization</b>		
This course must be completed during the first semester of the first year:		
INFOST 650G	An Introduction to Modern Archives Administration	3
Then select three of the following: 9		
INFOST 682G	Digital Libraries	
INFOST 750	Arrangement and Description in Archives <sup>3</sup>	
INFOST 752	Archival Outreach: Programs and Services	
INFOST 753	Preserving Information Media <sup>3</sup>	
INFOST 791	Topics in Library and Information Science: (with appropriate subtitle)	
INFOST 855	Advanced Appraisal <sup>3</sup>	

INFOST 891	Advanced Topics in Library and Information Science: (with appropriate subtitle)
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**Total Credits** **36**

- <sup>1</sup> As a substitute for one colloquium or seminar, students may take 3 credits of HIST 716, HIST 717, or another appropriate course, which must be approved in advance by the program director.
- <sup>2</sup> Students must take a total of 6 credits of HIST 701, and this requirement is generally completed as two 3-credit internships. However, an individual internship may be taken for 1 to 6 credits. Unless granted an exception by the program faculty, students complete their 701 internship(s) after having taken both HIST 700 and HIST 715.
- <sup>3</sup> These electives are strongly recommended, but students with prior coursework or employment experience in archives may opt for other electives.

### Cross-Disciplinary Studies with Thesis Track

Students in the Cross-Disciplinary Studies track complete a thesis in public history, and they are required to take 6 Master’s Capstone credits and 3 credits of public-history internship. Instead of the 12-15 credits in specialized courses, students in the thesis track must also take 9 credits in cross-disciplinary courses in the humanities and/or social sciences. Selected in consultation with the Public History Director and the student’s major professor, cross-disciplinary courses may focus on culture and politics in public history, or they may include coursework in theory or methodology relevant to public history.

Code	Title	Credits
<b>General History</b>		
Select 6 credits in colloquia <sup>1</sup>		6
Select 6 credits in seminars <sup>1</sup>		6
<b>Public History</b>		
Students are advised to complete these two courses in the first year:		
HIST 700	Public History Seminar	3
HIST 715	Research Methods in Local History	3
Students also complete the following, generally taken at any point after the second semester:		
HIST 701	Graduate Internship in Public History <sup>2</sup>	3
Thesis credits may be completed after the approval of the thesis prospectus (see below):		
HIST 985	Master’s Capstone	6
<b>Cross-Disciplinary Requirement</b>		
Select 9 credits in the humanities and/or social sciences that focus on culture and politics in public history (see below)		9
<b>Total Credits</b>		<b>36</b>

- <sup>1</sup> As a substitute for one colloquium or seminar, students may take 3 credits of HIST 716, HIST 717, or another appropriate course, which must be approved in advance by the program director.
- <sup>2</sup> Students pursuing Cross-Disciplinary Studies with Thesis Track must take 3 credits of HIST 701. Unless granted an exception by the program faculty, students complete their 701 internship(s) after having taken both HIST 700 and HIST 715.

### Thesis Prospectus

Within the first semester after completing 9 credits (including two of the following courses: HIST 700, HIST 715, a colloquium, and/or a seminar), public history students who choose to write a thesis are subject to an academic review. The review is a one- to two-hour meeting involving the student, the student’s major professor, and two other members of the History Graduate Faculty who will serve as secondary readers of the student’s thesis. With the assistance of their major professor, the student must prepare a thesis prospectus in advance of the review. The review involves an evaluation of the student’s academic progress in master’s coursework, two unrevised course papers, and the thesis prospectus.

### Recommendations for Cross-Disciplinary Coursework

The following are recommended courses to fulfill the cross-disciplinary requirement (others may be chosen with the approval of the Public History Director):

Code	Title	Credits
<b>Elective courses to fulfill cross-disciplinary track requirements</b>		
ANTHRO 340	Cultures of Online Games and Virtual Worlds	3
ANTHRO 380	Anthropological Applications of GIS	3
ANTHRO 744	Theories of Social Action: Theater, Ritual, Game	3
ARCH 583G	Emerging Digital Technology:	3
ARCH 742	Professional Practice II	3
ARCH 771	Representation I	3
ARCH 772	Representation II	3
ART 312G	Intermediate Digital Studio:	3
ART 313G	Creative Coding	3
ART 316G	Creative Interfaces	3
ART 317G	3D Environments and XR	3
ART 318	Creative Electronics	3
ART 327	Digital Media Workshop:	3
ART 412G	Advanced Creative Technologies	3
ART 418G	Advanced Electronics and Sculpture:	3
ART 426G	Motion Graphics	3
ART 433G	Digital Imaging for Fabric	3
ART 452G	Contemporary Issues in Photography	3
ART 456G	Advanced Photography & Imaging:	3
ART 526G	Research in Universal Design and Fabrication	3
ARTHIST 376G	History and Theory of New Media Art	3
COMMUN 813	Seminar in Mediated Communication	3
COMMUN 873	The Digital Mirror	3
COMMUN 893	Rhetoric of/and the Internet	3
DAC 661G	Digital Engagement Seminar	3
ENGLISH 439	Information Design	3
ENGLISH 709	Rhetoric, Writing, and Information Technology	3
ENGLISH 711	Topics in Public and Professional Writing:	3
ENGLISH 713	Research Methods in Rhetorics, Literacies, and Community Engagement:	3
ENGLISH 742	Media Studies	3



ENGLISH 887	Seminar in Digital Studies:	3
FILM 420G	Intermediate Media Arts Module:	3
FILM 763	Experimental Documentary	3
FILM 764	Observational Documentary	3
FILM 782	Visual Effects	3
HIST 450G	The History of Milwaukee	3
HIST 715	Research Methods in Local History	3
HIST 717	History and the New Media	3
INFOST 661G	Information Ethics	3
INFOST 670G	Instructional Technologies	3
INFOST 682G	Digital Libraries	3
INFOST 685G	Electronic Publishing and Web Design	3
URB STD 921	Seminar: Research Methods in Urban Studies	3
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	3
URBPLAN 792	Using Urban Geographic Information Systems (GIS) for Planning	3
WGS 500G	Advanced Social Science Seminar in Women's and Gender Studies:	3

### Approved Cross-Listed Courses

WGS 501G, with the topic "Women, Gender, & Global Revolutions," counts as a History course.

## Additional Requirements

### Internship

All internships must be approved by the Public History Director and are to be supervised and evaluated by the Public History Director and the host institution. All students must write a substantial paper as a part of their internship experience.

### Thesis Option for Students in Non-Thesis Tracks

A thesis is not required for students in the Museum Studies, Nonprofit Administration, Historical Preservation, or Archives tracks, but with the approval of the Public History Coordinator these students may write a thesis in public history, which will add 6 credits to the 36-credit Public History specialization. Public History students who write a thesis are subject to the Academic Review and Thesis Prospectus requirements outlined for the General History: Thesis (p. 1113) Option.

### Comprehensive Examination

Not required.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## History, Minor

History is an ideal minor at UWM in that it pairs well with an especially wide array of majors. Every field, whether it be business, politics, the law, the arts, architecture, engineering, or the sciences, has its own history. Being able to draw on and learn from those histories is an indispensable advantage for those looking to build fulfilling careers and develop into active leaders in their communities.

Like the department's majors, History minors also enjoy the opportunity to work on research projects such as the Encyclopedia of Milwaukee. This is a distinct advantage for UWM students. At most large, research universities, research opportunities for undergraduates are limited. Participating in undergraduate research is an excellent way to enhance your resume for graduate school or employment.

History is also available at UWM as an online minor - all of the classes for the minor can be completed online if desired, or students can mix-and-match assorted online and traditional-format classes.

## Requirements

History minors are required to take a minimum of 18 credits of coursework distributed as follows:

Code	Title	Credits
	Select at least 3 credits in European history	3
	Select at least 3 credits in U.S. history	3
	Select at least 3 credits in non-Western or global history	3
	Select at least 9 credits in courses numbered 300 or above taken in residence at UWM	9
<b>Total Credits</b>		<b>18</b>

History minors must maintain a 2.0 GPA in all history courses attempted at UWM and a 2.0 GPA in all history credits attempted at all institutions attended, collectively. No more than 3 of the 18 credits applied to the minor may be earned in independent study courses (HIST 199 or HIST 699). Note that in all courses taken in the minor on a credit/no credit basis (whether applied to the requirements of the minor or not), regular letter grades are recorded on your transcript and are used in the calculation of your GPA.

Note: Specific courses may count toward the fulfillment of more than one requirement. For example, HIST 307 counts toward the European history requirement and toward credits 300 or above taken in residence.

Course lists delineating approved European, U.S., and non-Western or global history courses offered at UWM are below.

## Categorization of Courses by Geographic Area

The following lists indicate the geographic areas towards which courses count in the fulfillment of the major and minor requirements. (Note that some courses do not satisfy any of the geographic area distribution requirements and that for variable-topic courses, the geographic area is determined by the specific topic).

### European History

Code	Title	Credits
HIST 101	Western Civilization: Ancient World to 1500	3
HIST 102	Western Civilization: 1500 to the Present	3
HIST 201	The Ancient World: The Near East and Greece	3
HIST 202	The Ancient World: The Roman Republic and Empire	3
HIST 203	The History of Medieval Europe: The Early Middle Ages	3

HIST 204	The History of Medieval Europe: The High Middle Ages	3	HIST 263	North American Indian History Since 1887	3
HIST 206	Europe and the Modern World: 1815 to the Present	3	HIST 267	The History of Latinos in the United States	3
HIST 235	English History to 1688	3	HIST 268	History of the American West	3
HIST 236	Britain Since 1688: Rise and Decline of a Great Power	3	HIST 269	Asian Americans in Historical Perspective	3
HIST 239	Poland and its Neighbors, 1795-1914	3	HIST 270	Topics in American History:	3
HIST 241	Women and Gender in Europe: 1350 to 1750	3	HIST 271	The 1960s in the United States: A Cultural History	3
HIST 242	Women and Gender in Europe: 1750 to the Present	3	HIST 404	Topics in American History:	3
HIST 248	The First World War	3	HIST 405	The Age of the American Revolution, 1750-1789	3
HIST 249	The Second World War in Europe	3	HIST 409	Causes of the Civil War, 1828-1861	3
HIST 303	A History of Greek Civilization: The Greek City-State	3	HIST 410	Civil War and Reconstruction: The United States, 1861-1877	3
HIST 304	A History of Greek Civilization: The Age of Alexander the Great	3	HIST 418	America in Prosperity, Depression and War, 1921-1945	3
HIST 307	A History of Rome: The Republic	3	HIST 419	America Since 1945	3
HIST 308	A History of Rome: The Empire	3	HIST 432	North American Environmental History	3
HIST 318	Medieval Civilization: The High Middle Ages	3	HIST 434	The United States as a World Power in the 20th Century	3
HIST 319	The Era of the Crusades	3	HIST 435	Ethnic America: To 1880	3
HIST 320	History of Medieval Warfare	3	HIST 436	Immigrant America Since 1880	3
HIST 329	The Roman Catholic Church, 1500 to the Present	3	HIST 440	History of the American Working Classes	3
HIST 330	The Papacy in History	3	HIST 442	Beer and Brewing in America	3
HIST 341	Imperial Russia	3	HIST 445	African Americans from Slavery to Freedom	3
HIST 343	Russia Since 1917	3	HIST 446	African Americans Since the Civil War	3
HIST 346	Poland and Its Neighbors, 1914-1945	3	HIST 448	Baseball in American History	3
HIST 348	Poland and Its Neighbors, 1945 to the Present	3	HIST 449	Popular Culture in America, 1800 to the Present	3
HIST 355	Modern and Contemporary France	3	HIST 450	The History of Milwaukee	3
HIST 358	The Jews of Modern Europe: History and Culture	3	HIST 451	History of Wisconsin	3
HIST 363	Germany: Hitler and the Nazi Dictatorship	3	HIST 452	History of Religion in American Life to 1870	3
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3	HIST 453	History of Religion in American Life Since 1870	3
HIST 371	Topics in European History:	3	HIST 460	The History of Poverty in America	3
HIST 375	Contemporary European History, 1945 to the Present	3	HIST 463	History of the American City	3

## U.S. History

Code	Title	Credits
HIST 150	Multicultural America	3
HIST 151	American History: 1607 to 1877	3
HIST 152	American History: 1877 to the Present	3
HIST 215	History of Capitalism	3
HIST 229	History of Race, Science, and Medicine in the United States	3
HIST 243	History of Women in American Society	3
HIST 262	North American Indian History to 1887	3

## Non-Western or Global History

Code	Title	Credits
HIST 131	World History to 1500	3
HIST 132	World History Since 1500	3
HIST 141	Global History of the Family, Gender, and Sexuality	3

HIST 175	East Asian Civilization to 1600	3
HIST 176	East Asian Civilization Since 1600	3
HIST 180	Latin American Society and Culture	3
HIST 210	The Twentieth Century: A Global History	3
HIST 274	Ancient Egyptian Civilization	3
HIST 280	Islamic Civilization: The Formative Period, ca. 500-1258	3
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3
HIST 284	Buddhism Across Asia	3
HIST 286	The Korean War	3
HIST 287	The Vietnam War	3
HIST 290	Topics in Global History:	3
HIST 295	Historical Encounters:	3
HIST 372	Topics in Global History:	3
HIST 376	Premodern China	3
HIST 377	Modern China	3
HIST 378	Revolution in China	3
HIST 379	Introduction to Jewish History	3
HIST 380	Buddhism: A Cultural History	3
HIST 386	Africans in World History: Communities, Cultures, and Ideas	3
HIST 387	Colonization in Africa: A History of Resistance and Adaptation	3
HIST 392	The History of Southern Africa	3
HIST 393	History of Mexico	3
HIST 394	History of Japan to 1600	3
HIST 395	History of Japan Since 1600	3
HIST 400	Topics in Latin American and Caribbean History:	3
HIST 401	Topics in Middle Eastern History:	3
HIST 402	Topics in Asian History:	3
HIST 596	Maps as Historical Sources	3
HIST 396	Decolonization, Revolution, and Independence in African History	3
PORTUGS 360	Luso-Brazilian Culture: (Topic: "History of Brazil") <sup>1</sup>	3
WGS 501	Advanced Humanities Seminar in Women's and Gender Studies: (Topic: "Women, Gender, & Global Revolutions") <sup>1</sup>	3

<sup>1</sup> These courses in other subjects may be used to fulfill requirements of the undergraduate major or minor in history.

### Geographic Area Determined by Specific Topic

Code	Title	Credits
HIST 192	First-Year Seminar:	3
HIST 193	First-Year Seminar:	3
HIST 199	Independent Study	1-3
HIST 200	Historical Roots of Contemporary Issues:	3
HIST 296	UROP Apprenticeship	1-3
HIST 297	Study Abroad:	1-12

HIST 299	Ad Hoc:	1-6
HIST 370	Topics in the History of Religious Thought:	3
HIST 373	Topics in Gender and History:	3
HIST 398	Honors Seminar:	3
HIST 399	Honors Seminar:	3
HIST 497	Study Abroad:	1-12
HIST 499	Ad Hoc:	1-6
HIST 594	Methods and Theory in the Historical Study of Religion:	3
HIST 600	Seminar in History:	3
HIST 681	Senior Thesis I	3
HIST 682	Senior Thesis II	3
HIST 699	Independent Reading:	1-6

The geographic area of concentration in sections of HIST 600, where the area is not obvious in the title, by default is designated in accordance with the primary teaching and research interests of the instructor. In such cases, and with the instructor's approval, HIST 600 can count toward different areas for different students, as determined by the predominant focus of their individual work in the course. Note that a variable topic course cannot be considered "Non-Western or Global" unless at least a substantial part of the course's focus includes the study of African, Asian, Middle Eastern, or Latin American history.

### No Geographic Area

Code	Title	Credits
HIST 289	Internship in History, Lower Division	1-6
HIST 294	Seminar on Historical Method: Research Techniques	3
HIST 296	UROP Apprenticeship	1-3
HIST 489	Internship in History, Upper Division	1-6
HIST 593	Seminar on Historical Method: Theory and Approach	3
HIST 595	The Quantitative Analysis of Historical Data	3

### Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## History, PhD

The PhD program is for applicants desiring to be trained as independent, original scholars. Most PhD graduates seek faculty positions at colleges or universities.

PhD students are an integral part of the learning and teaching experience across the History Department. They conduct research, teach courses and work closely with various faculty members and students throughout the department. Most students complete the program in 4-5 years and come to the program with a master's degree in history.

Culminating events for the History PhD include a qualifying examination, a dissertation, and defense.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

To be considered for admission, an applicant must meet Graduate School admission requirements plus these departmental requirements:

1. A master's degree in history or a related field
2. Three letters of recommendation from persons familiar with the applicant's intellectual achievement and potential.
3. A sample of the applicant's written work that demonstrates their ability to conduct historical research and/or the ability to analyze the work of others critically.

Please visit the History department's website for information on the History Department Application (<https://uwm.edu/history/students/graduate/how-to-apply-to-the-graduate-program/>).

## Credits and Courses

To earn the Ph.D., a student must have accumulated at least 54 graduate credits, at least 30 of them taken at the post-master's level. (Precise numbers of credits and actual course requirements while in Ph.D. status will be determined after a review of the applicant's previous coursework.) Doctoral students may not accumulate more than 6 credits in U/G courses, nor more than 6 credits in independent study without the approval of the Director of Graduate Studies. Of the 54 credits, at least 9 must be in fields other than history. No more than 18 credits in courses outside of History may be counted toward the doctoral degree.

Code	Title	Credits
<b>Required</b>		
HIST 712 or HIST 713	Historiography and Theory of History Historical Research Methods	3
Select two of the following:		6
HIST 712	Historiography and Theory of History (if not taken above)	
HIST 713	Historical Research Methods (if not taken above)	
HIST 715	Research Methods in Local History	

HIST 716	Professional and Pedagogical Issues in History	
HIST 717	History and the New Media	
HIST 990	Dissertation Research (minimum 6 credits)	6
<b>Electives</b>		
Select 15 credits of electives (may include additional dissertation credits)		15
<b>Total Credits</b>		<b>30</b>

### Approved Cross-Listed Courses

WGS 501 G, with the topic "Women, Gender, & Global Revolutions," may count as either a History course, or as a WGS course to satisfy the requirement of at least 9 credits outside of History, but not as both.

### Advising

The Director of Graduate Studies provides initial advising for the student in selecting courses and assists in selecting a Major Professor for long-term advising; the Director may assign a provisional graduate advisor before students select a Major Professor.

Students are required to consult periodically with, and have their schedules approved by, the Director of Graduate Studies, the provisional advisor, or the Major Professor. The Major Professor helps the student to define a dissertation topic and assists the student in choosing appropriate courses and in selecting members of the student's Preliminary Examination and Doctoral Committees. The Major Professor normally chairs the student's Preliminary Examination and Doctoral Committees.

### Foreign Language or Data Analysis Proficiency

Students must demonstrate proficiency in one or more relevant foreign languages by passing a written examination in the translation of source materials or historical analysis. If a student's Major Professor considers proficiency in more than one language necessary to the student's specific plan of study, exams in more than one language may be required.

With the approval of the Major Professor, a student may substitute proficiency in another skill relevant to historical study; in these cases, proficiency will be demonstrated through relevant coursework.

### Minor

Students are not required to elect a minor field, but they may wish to supplement their chosen specialty in this way. Depending on the particular course array, students may need to take more than 54 credits to complete both the major and minor requirements. Those who wish to take a minor have three options:

#### Option A: Minor In One Field

Working with a minor professor, students take 8-12 credits in a single department, leading to a minor examination.

#### Option B: Interdisciplinary Minor

Students take 8-12 credits in two or more departments, selected for their relevance to the student's area of specialty. The minor will be defined in consultation with the student's Major Professor and the Director of Graduate Studies.

#### Option C: Minor in Public History

This 21-credit minor is appropriate for students planning a career in archives, museums, historic preservation, or other related specialties. It is

not available to students who already have a specialization or degree in public history at the master's level. Students in this minor are required to take 12 credits as follows:

Code	Title	Credits
<b>Required</b>		
HIST 700	Public History Seminar <sup>1</sup>	3
HIST 701	Graduate Internship in Public History	6
HIST 715	Research Methods in Local History	3
<b>Electives</b>		
Select 9 credits (see below)		9
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> Students must take HIST 700 in the first semester of their first year.

### Electives

The remaining 9 credits in public history must be selected from courses that pertain to the area of public history in which the student wishes to specialize.

For students interested in careers as archivists, electives should be selected from the following courses:

Code	Title	Credits
INFOST 650	An Introduction to Modern Archives Administration	3
INFOST 850	Seminar in Modern Archives Administration	3
INFOST 753	Preserving Information Media	3
INFOST 750	Arrangement and Description in Archives	3
INFOST 759	Fieldwork in Archives and Manuscripts	3

Students interested in careers in museums are advised to take at least three of the following courses:

Code	Title	Credits
ANTHRO 720	History and Theory of Museums	2
ANTHRO 721	Administration and Organization of Museums	3
ANTHRO 722	Visitor Experience Design in Museums	3
ANTHRO 723	Museum Collections Management and Curation	3

Students interested in careers in historic preservation are advised to take at least three of the following:

Code	Title	Credits
ARCH 560	Introduction to Historic Preservation	3
ARCH 760	History of Building Technology	3
ARCH 660	Topics in Architectural History & Theory	3

## Additional Requirements

### Doctoral Preliminary Examination

The doctoral preliminary examination includes written and oral components designed to demonstrate the breadth of a student's

knowledge and the ability to conduct advanced historical research. It must be taken within five years of enrollment in the Ph.D. program.

Students who fail the doctoral preliminary examination may not proceed to the dissertation. The exam may be retaken only once. The Director of Graduate Studies provides specific guidelines for selecting the Doctoral Preliminary Examination Committee and preparing the doctoral preliminary examination proposal.

### Dissertation

The dissertation is a major piece of original research representing a substantial contribution to historical scholarship. In consultation with the Major Professor, the student chooses a dissertation committee, which must approve the prospectus. The student's Major Professor provides guidance in preparing the prospectus and in developing and writing the dissertation.

### Dissertation Defense

The candidate must pass an oral examination in defense of the dissertation.

### Time Limit and Residence

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program. To meet the continuous-year portion of the residence credit requirement, students must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, including summer sessions. In exceptional cases, modifications of the residence requirement may be requested, subject to the approval of the History Department and the Graduate School.

## Human Resources and Labor Relations

The Lubar School of Business and the College of Letters and Science offer and present jointly the Master of Human Resources and Labor Relations (MHRLR).

The MHRLR is an innovative master's program offering students an interdisciplinary blend of courses and faculty in the areas of human resources and labor relations. The MHRLR program prepares students for careers as practitioners, and emphasizes a firm educational grounding in both the liberal arts and business administration. This grounding includes knowledge of human resources, staffing, labor relations, the legal system, and statistics.

Elective courses and options within the core requirements allow students to gain the specialized knowledge needed to work in the human resource management and labor relations areas of: compensation and benefits, collective bargaining, alternative dispute resolution, recruitment and selection, training and development, occupational health and safety, equal employment opportunity, strategic human resource management, and international human resource management.

The program is designed for full-time and part-time students who seek careers in the private or public sectors, and with unions or management.

### Programs

- Human Resources and Labor Relations, MHRLR (College of Letters and Science) (p. 1126)

- International Human Resources and Labor Relations, Graduate Certificate (p. 1127)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Scott Adams	Professor	PhD	Michigan State University	✓	
Layth Alwan	Associate Professor	PhD	University of Chicago	✓	
Margo Anderson	Distinguished Professor	PhD	Rutgers University		✓
Scott Drewianka	Associate Professor	PhD	University of Chicago	✓	
Sarah Freeman	Associate Professor	PhD	University of Michigan		✓
Jeanne Hewitt	Associate Professor	PhD	University of Illinois-Chicago		✓
John Heywood	Distinguished Professor	PhD	University of Michigan	✓	
Mark Mone	Professor	PhD	Washington State University	✓	
Belle Rose Ragins	Professor	PhD	University of Tennessee-Knoxville	✓	
Hong Ren	Associate Professor	PhD	Pennsylvania State University	✓	
Romila Singh	Associate Professor	PhD	Drexel University	✓	

## Human Resources and Labor Relations, MHRLR (College of Letters and Science)

### Related Certificates

- Graduate Certificate in Mediation and Negotiation (p. 966)
- Graduate Certificate in International Human Resources and Labor Relations (p. 1127)

Whether you are currently in the field, a recent college graduate or wish to change careers, the Master of Human Resources and Labor Relations (MHRLR) provides the knowledge necessary to thrive. Classes emphasize practical applications, case studies and engagement. Students apply their new knowledge to current workplace challenges.

The MHRLR program provides a thorough understanding of the core functions, contemporary practices and underlying theories of human resources and employment relations.

The MHRLR program values diversity, bringing together students from varying backgrounds and experiences to create a dynamic learning environment in the classroom and beyond.

**What you learn in class can be utilized the next morning at work.**

## Admission Requirements

### Application Deadline

Students may begin their studies in the Fall, Spring or Summer semesters. Applications are accepted on a continuous basis. The program does not have a specific deadline to apply.

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following requirements to be considered for admission to the MHRLR program:

1. Submission of two letters of recommendation to the MHRLR program.

2. Statement of reasons for graduate study.
3. Students admitted to the program will be expected to present at least three credits of prior work in both principles of microeconomics and introductory statistics.
4. Students who are deficient in the areas of principles of microeconomics or statistics at the time of admission (see above), will be expected to satisfy deficiency requirements within three enrolled semesters. Deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted for the degree.
5. Submission of GRE (<http://uwm.edu/graduateschool/admission/#gre>) or GMAT (<http://uwm.edu/graduateschool/admission/#gmat>) scores is recommended, but not required.
6. Applicants are reviewed by the MHRLR admissions committee to assess academic achievements and the ability to do intensive graduate-level work.

## Credits and Courses

The Master of Human Resources and Labor Relations degree will be awarded upon completion of 36 credits of prescribed graduate study and appropriate prerequisite coursework. The program offers a balance between liberal arts and business-based education, requiring that at least 15 credits be taken within the College of Letters and Science and at least 15 credits be taken within the Lubar College of Business. The MHRLR Program believes in a common body of knowledge and skills necessary to be an effective Human Resource or Labor Relations professional.

The program has a required core of seven courses (21 credits) and five elective courses (15 credits) for a total of 36 credits.

Code	Title	Credits
<b>Required Core</b>		
IND REL 701	Industrial and Labor Relations	3
BUSMGMT 706	Managing in a Dynamic Environment	3
BUS ADM 738	Human Resource Management	3
BUS ADM 735	Staffing Organizations	3
ECON 448G or ECON 753	Economics of Human Resources <sup>1</sup> Collective Bargaining	3

IND REL 712	Employment Law	3
IND REL 731	Research Tools for Practitioners in Human Resources and Labor Relations <sup>2</sup>	3
or BUSMGMT 731	Research Tools for Practitioners in Human Resources and Labor Relations	
<b>Electives (see list of approved electives below)</b>		<b>15</b>
<b>Total Credits</b>		<b>36</b>

<sup>1</sup> If ECON 448G and ECON 753 are both taken, one of these may be used to help fulfill elective requirements.

<sup>2</sup> The required course Research Tools for Practitioners in Human Resources and Labor Relations can be taken as either IND REL 731 or BUSMGMT 731 (but not both) to help meet the required 15 credit minimum in each of the College of Letters and Science and the Lubar College of Business.

### Elective Courses

The choice of electives to complete a MHRLR degree should reflect student interest. Students are not required to choose a specialization and are encouraged to select those electives that best suit their backgrounds and interests. A student may take up to 6 credits from the approved list of alternative electives in other schools such as the School of Nursing, the School of Education, and the School of Social Welfare.

Students without prior experience in the field are encouraged to take advantage of the program’s extensive contacts in the business and labor communities by undertaking one or more internships as either BUS ADM 799 or IND REL 921. Students may also utilize the wide range of faculty expertise available within the program for a major research paper on a human resources or labor relations topic. These papers, under the direction of a faculty advisor, are taken as either IND REL 801 or BUS ADM 799. A student may graduate with honors from the MHRLR program by maintaining a 3.5 grade-point average within the program, and by writing a 3-credit major research paper (under BUS ADM 799 or IND REL 801).

Any new course development, programmatic changes, or program name change must be approved by the appropriate curricular committees and faculty in the respective units.

The program, including admissions and course staffing, is subject to the AACSB accreditation requirements.

Code	Title	Credits
<b>Approved Electives</b>		
<i>College of Letters &amp; Science</i>		
IND REL 715	Workplace Dispute Resolution	3
IND REL 725	Total Rewards Compensation	3
IND REL 800	Current Issues in Industrial Relations:	1-3
ECON 415G	Economics of Employment and Labor Relations	3
ECON 448G	Economics of Human Resources	3
ECON 753	Collective Bargaining	3
ECON 755	Comparative Labor Markets and Employment Relations	3
COMMUN 665G	Introduction to Mediation	3
COMMUN 865		3
POL SCI 452G	Administrative Law	3

POL SCI 769	Analyzing and Evaluating Public Policies and Programs	3
SOCIOL 443G	Organizations, Occupations, and Professions	3

#### *Lubar College of Business*

BUS ADM 442G	Industrial Psychology	3
BUS ADM 445G	Training & Development in Organizations	3
BUS ADM 731	Leadership in Diversity and Inclusion	3
BUS ADM 733	Organizational Development	3
BUS ADM 737	Managerial Decisions and Negotiations	3
BUSMGMT 715	Leadership, Team Building, and Effective Management	3
BUSMGMT 723	Managing and Negotiating Across Borders	3
BUSMGMT 728	Training and Development in Organizations	3

#### *Administrative Leadership (College of Community Engagement and Professions)*

AD LDSP 710	Organizational Change and Team Leadership	3
AD LDSP 757	Principles and Foundations of Adult Education	3
AD LDSP 777	Leadership in Multicultural Organizations	3

## Additional Requirements

### Major Professor as Advisor

The assistant director of the MHRLR Program advises and supervises newly admitted students. The assistant director, in consultation with the student, reviews the student’s academic background and career goals and designs an appropriate program of study consistent with degree requirements.

## International Human Resources and Labor Relations, Graduate Certificate

The Graduate Certificate in International Human Resources and Labor Relations responds to the increasing influence of globalization on the practice of Human Resource Management and the conduct of Labor Relations. Firms and unions are increasingly part of a complex web of international economic relationships. Many of the workplace innovations now taken for granted began overseas: quality circles, work groups and flatter hierarchies. Many firms operate overseas under very different labor market institutions and human resource expectations.

This program of study provides practical and theoretical knowledge designed to help students function as professionals in the increasing broad international context of human resource management and labor relations.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Eligibility and Admission

Students applying for the Certificate Program in International Human Resources and Labor Relations must hold a bachelor's degree and must have earned a 2.75 GPA overall or must furnish substantial evidence of ability to succeed in graduate-level work. Students admitted to the Certificate will be expected to present at least three credits of prior work in microeconomics and three credits in statistics.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Code	Title	Credits
<b>Required<sup>1</sup></b>		
IND REL 701	Industrial and Labor Relations	3
ECON 755	Comparative Labor Markets and Employment Relations	3
BUSMGMT 723	Managing and Negotiating Across Borders	3
BUS ADM 738 or BUS ADM 795	Human Resource Management Seminar-in-Management:	3
<b>Recommended</b>		
The following courses are recommended but not required:		
IND REL 999	Independent Study	
BUS ADM 799	Reading and Research	
IND REL 921	Internship in Industrial Relations	
<b>Total Credits</b>		<b>12</b>

<sup>1</sup> Course substitutions would be allowed with the consent of the MHRLR Director for those who had previously completed similar coursework.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

## Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## International Studies

The International Studies (IS) Program is interdisciplinary and administered by faculty members in the College of Letters and Science. Our IS programs offer students an excellent opportunity to improve their understanding of the diverse cultures of the world and to begin developing the skills they need for careers that have an international dimension. Our IS programs have grown steadily over the past 50 years to meet the needs for a more globalized education.

All interested students should consult the International Studies advisor at the earliest opportunity.

## Programs

- International Studies, BA (p. 1128)
- International Studies, Minor (p. 1137)

## International Studies, BA

Students in UWM's international studies program take courses in history, political science, economics, anthropology, comparative literature, and foreign languages to build a program around their own specialized interests in international relations, politics, economics, development, or culture and language. The International Studies (IS) major offers a number of special options designed to help students deepen their knowledge of international affairs.

Understanding the nuances of globalization in our personal and professional lives, speaking the languages of others, and appreciating



cultural diversity are essential skills for living and working in the world today. UWM's International Studies program is based on the principles of the liberal arts with an emphasis in broad knowledge of people, places, and institutions, coupled with the skills to be an adaptable professional in a global marketplace. International studies majors have the ability to interact across cultures, converse in more than one language, analyze problems across cultural or national boundaries, adapt to new situations, appreciate differences in people and processes, and problem solve across different areas and formats.

With this background, students have job opportunities in many different industries and are prepared for many different roles. Career choices immediately after college are often influenced by the hands-on experiences obtained during the college years. Students are encouraged to explore all of their options through internships, part-time jobs, and volunteer experiences. Students may opt to complete an internship for credit as part of the International Studies major.

Similarly, a study abroad (<http://uwm.edu/cie/study-abroad/>) experience can open up new opportunities that would not have even been imagined prior to going abroad. UWM has programs at more than 70 sites around the world that vary in length from 2 to 3 weeks, to semester-long, to even a full year. Because of the complexities of planning a study abroad experience, students are encouraged to start planning early in sophomore year. Most students engage in study abroad during their junior year. Studying abroad is strongly encouraged for all International Studies majors, but not required.

Students often wonder what the differences are between Global Studies and International Studies at UWM. The foreign language requirements for the International Studies program are not as stringent as those in Global Studies. Global Studies majors also complete experiential learning credits, choosing a combination of study abroad and internship options. Both studying abroad and internships are optional for International Studies majors. In addition, International Studies coursework is focused exclusively on courses found in the College of Letters & Science.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	

*Part B*

Course designated as OWC-B; may be completed through a major-specific course requirement

#### Quantitative Literacy

##### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

##### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

#### Arts

Select 3 credits 3

#### Humanities

Select 6 credits 6

#### Social Sciences

Select 6 credits 6

#### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

#### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

#### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	

Code	Title	Credits
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	0-18
	Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)	

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	9
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. \*

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\*

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**International Studies Major Requirements**

The major requires 4 semesters or the equivalent in one foreign language. Students must complete at least one college course to meet this requirement; high school work alone will not suffice. Students must attain a 2.0 GPA in all UWM credits attempted for the major. In addition, the College requires that students attain a 2.0 GPA in all major credits attempted, including any transfer work.

Students may receive credit toward the International Studies (IS) major for participation in study abroad programs or the United Nations Summer Seminar. Credit towards the major also may be obtained through a semester-long internship in an international business, a government office, or a private organization with an international focus, either in Milwaukee or abroad.

Students may declare the International Studies (IS) major once they have reached 15 credits. The advisor will assist each student in preparing a logical sequence of studies.

Code	Title	Credits
<b>Introductory Requirements <sup>1</sup></b>		
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
GEOG 110	The World: Peoples and Regions	3
Select one of the following:		3
ANTHRO 102	Introduction to Anthropology: Culture and Society	
ANTHRO 104	Lifeways in Different Cultures: A Survey of World Societies	
HIST 176	East Asian Civilization Since 1600	
HIST 180	Latin American Society and Culture	
HIST 242	Women and Gender in Europe: 1750 to the Present	
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	
POL SCI 106 or POL SCI 175	Politics of the World's Nations / Introduction to International Relations	3
<b>Requirements for the Major</b>		
<i>General</i>		
INTLST 550	Senior Seminar in International Studies: (subtitle) (satisfies L&S research requirement)	3
Select one of the following:		3-4
ANTHRO 560	Introduction to Research Methods in Anthropology	
ANTHRO 561	Techniques and Problems in Ethnography	
ECON 210	Economic Statistics	
GEOG 215	Introduction to Geographic Information Science	
HIST 294	Seminar on Historical Method: Research Techniques	
MTHSTAT 215	Elementary Statistical Analysis	
POL SCI 203	Introduction to Political Science Research	
POL SCI 390	Political Data Analysis	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	
WGS 411	Women's and Gender Studies Research Methods:	
<i>Options</i>		
Select one of the following:		18
Option A: International Politics and World Affairs		
Option B: International Economics and Development		
Option C: World Languages and Culture		
<i>Electives</i>		
Select 11-12 credits from the list of electives for a total of 36 credits		11-12
<b>Total Credits</b>		<b>50-52</b>

<sup>1</sup> The introductory courses are required and should be taken during the first two years. Credits earned in the introductory courses do not count

toward the 36 credits required for the major. They cannot be taken on a credit/no credit basis.

### Option A: International Politics and World Affairs

This option emphasizes political aspects of international studies. 18 credits are required as outlined below:

Code	Title	Credits
<b>Required</b>		
ECON 351	Introduction to International Economic Relations	3
HIST 434	The United States as a World Power in the 20th Century	3
POL SCI 359	Problems of American Foreign Policy	3
Select a minimum of three of the following:		9
ECON 353	Economic Development	
POL SCI 316	International Law	
POL SCI 337	International Organization and the United Nations	
POL SCI 338	Seminar in International Relations: (part of UN Summer Seminar)	
POL SCI 340	Politics of Nuclear Weapons	
POL SCI 361	History of International Political Thought	
POL SCI 365	Theories and Methods in International Politics	
POL SCI 370	International Conflict	
POL SCI 371	Nationalism and Ethnic Conflict	
<b>Total Credits</b>		<b>18</b>

### Option B: International Economics and Development

This option emphasizes the political, economic, and cultural aspects of developing countries as well as the economic aspects of international studies. 18 credits are required as outlined below:

Code	Title	Credits
ECON 301	Intermediate Microeconomics	3
ECON 302	Intermediate Macroeconomics	3
ECON 353	Economic Development	3
POL SCI 330	The Politics of International Economic Relations	3
Select a minimum of two of the following:		6
BUS ADM 465	International Marketing	
BUS ADM 496	International Business	
ECON 351	Introduction to International Economic Relations	
ECON 454	International Trade	
ECON 455	International Finance	
POL SCI 316	International Law	
POL SCI 370	International Conflict	
URBPLAN 315	Great Cities of the World: Their Growth and Guided Urbanization	
URBPLAN 684	Planning Local Economic Development	
<b>Total Credits</b>		<b>18</b>

### Option C: World Languages and Culture

This option emphasizes the cultural aspects of international studies, examining topics such as globalization and politics from a range of perspectives. 18 credits are required as outlined below:

Code	Title	Credits
Select four from the following list, selecting from four different disciplinary areas:		12
<b>Anthropology:</b>		
ANTHRO 355	Globalization, Culture, and Environment	
ANTHRO 431	Cities and Culture	
ANTHRO 432	Law and Society	
ANTHRO 433	Contemporary Issues in Global Justice	
ANTHRO/GLOBAL 442	Humanitarianism in Global Perspective	
ANTHRO/GLOBAL 447	The Global Politics of Human Rights	
ANTHRO 449	The Human Economy	
ANTHRO 450	Political Anthropology	
ANTHRO 543	Cross-Cultural Study of Religion	
<b>Comparative Literature:</b>		
COMPLIT 231	Literature and Religion:	
COMPLIT 232	Literature and Politics:	
<b>English:</b>		
ENGLISH 278	Introduction to World Literatures Written in English:	
ENGLISH 316	World Cinema:	
ENGLISH 522	Studies in World Literature Written in English:	
<b>Global Studies:</b>		
GLOBAL 351	Language, Media, and Social Practice in Global Communications	
GLOBAL/ANTHRO 442	Humanitarianism in Global Perspective	
GLOBAL/ANTHRO 447	The Global Politics of Human Rights	
<b>History:</b>		
HIST 210	The Twentieth Century: A Global History	
HIST 290	Topics in Global History:	
HIST 372	Topics in Global History:	
<b>World Literature in Translation:</b>		
ITALIAN 245	Italy and Its Global Fictions:	
ITALIAN 457	Topics in Italian Literature and Culture in Translation:	
RUSSIAN 350	Dostoyevsky and Tolstoy in Translation: Major Works	
RUSSIAN 391	Russian Literature and Culture in Translation:	
SPANISH 371	Introduction to Latino Literature in English	
Select at least two upper-division courses (numbered 300 or above) in a single foreign language		6
ARABIC 390	Islam: Religion and Culture	
CHINESE 320	Contemporary Chinese Societies through Film	
CHINESE 343	Chinese Martial Arts Fiction	
JAPAN 351	Japanese Performance Traditions	

JAPAN 355	Seminar in Japanese Literature and Culture:
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**Total Credits 18**

## Electives

Code	Title	Credits
AFRIC 232	Survey of African Societies and Cultures	3
AFRIC 311	African Religious Thought and Social Organizations	3
AFRIC 320	Black Cultures in Latin America and the Caribbean	3
AFRIC 325	Africa/China Relations	3
AFRIC 329	Economic Growth and Sustainable Development in Africa	3
AFRIC 334	Survey of Black American and Black Brazilian Societies	3
AFRIC 344	Global Black Social Movements	3
AFRIC 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
AFRIC 352	Extended Families in Black Societies	3
AFRIC 362	Philosophy and Thought in Africa and the Diaspora II	3
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	3
AFRIC 418	Race, Class, and Gender in Latin America and the Caribbean	3
AFRIC 420	The Political Economy of Slavery	3
AFRIC 565	Selected Texts/Topics in African & African Diaspora Studies:	3
AMLLC 216	Survey of Civilization:	3
ANTHRO 104	Lifeways in Different Cultures: A Survey of World Societies	3
ANTHRO 102	Introduction to Anthropology: Culture and Society	3
ANTHRO 156	Food and Culture	3
ANTHRO 250	Women's Roles in Cross-Cultural Perspective	3
ANTHRO 320	Peoples and Cultures of Africa	3
ANTHRO 326	Peoples and Cultures of South Asia	3
ANTHRO 349	Seminar in Ethnography and Cultural Processes	3
ANTHRO 355	Globalization, Culture, and Environment	3
ANTHRO/GLOBAL 362	System Failure: Globalization and Language Extinction	3
ANTHRO 381	Honors Seminar:	3
ANTHRO 431	Cities and Culture	3
ANTHRO 432	Law and Society	3
ANTHRO 433	Contemporary Issues in Global Justice	3
ANTHRO 440	Medical Anthropology	3
ANTHRO 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3
ANTHRO/GLOBAL 442	Humanitarianism in Global Perspective	3
ANTHRO 443	Medicine and Pharmaceuticals in the Global Age	3

ANTHRO 445	Psychological Anthropology	3
ANTHRO 446	The Child in Different Cultures	3
ANTHRO/GLOBAL 447	The Global Politics of Human Rights	3
ANTHRO 448	Cultural and Human Ecology	3
ANTHRO 449	The Human Economy	3
ANTHRO 450	Political Anthropology	3
ANTHRO 540	Applications of Anthropology	3
ANTHRO 543	Cross-Cultural Study of Religion	3
ANTHRO 561	Techniques and Problems in Ethnography	3
ANTHRO 641	Seminar in Anthropology:	3
ARABIC 111	Cultures and Civilizations of the Muslim Middle East	3
ARABIC 390	Islam: Religion and Culture	3
ART 509	Art & Design Seminar:	3
ARTHIST 205	History of Film I: Development of an Art	3
ARTHIST 206	History of Film II: Development of an Art	3
ARTHIST 382	Chinese Art and Architecture	3
ARTHIST 481	Topics in Chinese Art:	3
BUS ADM 201	Introduction to Financial Accounting	4
BUS ADM 456	International Financial Management	3
BUS ADM 465	International Marketing	3
BUS ADM 496	International Business	3
CHINESE 150	Contemporary Chinese Society and Culture	3
CHINESE 200	Chinese Calligraphy	3
CHINESE 320	Contemporary Chinese Societies through Film	3
CHINESE 343	Chinese Martial Arts Fiction	3
COMMUN 310	Communication in Organizations	3
COMMUN 350	Intercultural Communication	3
COMMUN 363	Communication in Human Conflict	3
COMMUN 450	Cross-Cultural Communication	3
COMMUN 550	International and Global Communication	3
COMMUN 665	Introduction to Mediation	3
COMPLIT 135	Experiencing Literature in the 21st Century:	3
COMPLIT 207	Global Literature from Antiquity to the 1600s:	3
COMPLIT 208	Global Literature from the 17th Century to the Present:	3
COMPLIT 231	Literature and Religion: (Nazis and Anti-Semitic Propaganda)	3
COMPLIT 232	Literature and Politics: (subtitle)	3
COMPLIT 233	Literature and Film: (subtitle)	3
COMPLIT 230	Literature and Society:	3
COMPLIT 350	Topics in Comparative Literature:	3
COMPLIT 360	Seminar in Literature and Cultural Experience:	3
COMPLIT 461	Film-Fiction Interaction:	3
COMPLIT 463	Literary Criticism: Major Authors	3

COMPLIT 464	Seminar in Comparative Literary Criticism: (subtitle)	3	FRENCH 510	Seminar on Masterpieces of Literature Written in French: (subtitle)	3
ECON 248	Economics of Discrimination	3	GEOG 115	Globalization and Economic Development	3
ECON 301	Intermediate Microeconomics	3	GEOG 125	Introduction to Environmental Geography	3
ECON 302	Intermediate Macroeconomics	3	GEOG 213	Geography of Asia	3
ECON 310	Research Methods for Economics	3	GEOG 309	Nationalities and Nations of the World	3
ECON 328	Environmental Economics	3	GEOG 330	Europe: East and West	3
ECON 351	Introduction to International Economic Relations	3	GEOG 333	Muslim Geographies: Identities and Politics	3
ECON 353	Economic Development	3	GEOG 443	Cities of the World: Comparative Urban Geography	3
ECON 411	Economic Forecasting Methods	3	GERMAN 333	Texts and Contexts	3
ECON 413	Statistics for Economists	3	GERMAN 334	Introduction to German Studies	3
ECON 447	Labor Economics	3	GERMAN 360	German for the Global World	3
ECON 450	Health Economics	3	GERMAN 415	Topics in German Studies:	3
ECON 454	International Trade	3	GERMAN 460	German Literature from 1945 to the Present	3
ECON 455	International Finance	3	GLOBAL 101	Introduction to Global Studies I: People and Politics	3
ECON 489	Internship in Economics, Upper Division	1-6	GLOBAL 201	Introduction to Global Studies II: Economics and the Environment	3
ED POL 698	Fieldwork in International Education	1-6	GLOBAL 202	Introduction to Global Studies III: Globalization and Technology	3
ENGLISH 210	Global Englishes	3	GLOBAL 297	Study Abroad: (subtitle)	1-12
ENGLISH 214	Writing in the Professions: (International Business Writing)	3	GLOBAL 311	Contexts for Global Management	3
ENGLISH 278	Introduction to World Literatures Written in English:	3	GLOBAL 351	Language, Media, and Social Practice in Global Communications	3
ENGLISH 285	Modern Irish Language and Literature in Translation	3	GLOBAL 362	System Failure: Globalization and Language Extinction	3
ENGLISH 306	Survey of Irish Literature	3	GLOBAL 371	Rethinking Global Security	3
ENGLISH 312	Topics in Film, Television and Digital Studies:	3	GLOBAL 442	Humanitarianism in Global Perspective	3
ENGLISH 316	World Cinema:	3	GLOBAL 443	Medicine and Pharmaceuticals in the Global Age	3
ENGLISH 381	World Literatures Written in English:	3	GLOBAL 447	The Global Politics of Human Rights	3
ENGLISH 404	Language, Power, and Identity	3	GLOBAL 451	Access, Security, and Intercultural Contexts in Global Communications	3
ENGLISH 522	Studies in World Literature Written in English:	3	GLOBAL 471	Strategies for Realizing Security in Global Contexts	3
ENGLISH 622	Seminar in Irish Literature: (subtitle)	3	GLOBAL 489	International Internship in Global Studies, Upper Division	1-6
ENGLISH 624	Seminar in Modern Literature:	3	GLOBAL 497	Study Abroad: (subtitle)	1-12
ENGLISH 625	Seminar in Literary History:	3	GLOBAL 499	Ad Hoc: (subtitle)	1-6
ENGLISH 627	Seminar in Literature and Culture:	3	GLOBAL 541	Cross-Cultural Management	3
ETHNIC 250	Selected Topics in Ethnic Studies:	3	HIST 180	Latin American Society and Culture	3
FRENCH 324	Contemporary French Language and Culture	3	HIST 200	Historical Roots of Contemporary Issues: (Cuba Under Castro)	3
FRENCH 357	Literature of the French-Speaking World in Translation:	3	HIST 210	The Twentieth Century: A Global History	3
FRENCH 426	Growing Up French	3	HIST 236	Britain Since 1688: Rise and Decline of a Great Power	3
FRENCH 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries	3	HIST 242	Women and Gender in Europe: 1750 to the Present (if not selected as one of the introductory courses)	3
FRENCH 431	Seminar in Literature of the Francophone World:	3	HIST 248	The First World War	3
FRENCH 432	Seminar in French and Francophone Cultures:	3			
FRENCH 450	Institutions and Culture of Contemporary France	3			
FRENCH 451	Cinema of the French-Speaking World: (subtitle)	3			

HIST 249	The Second World War in Europe	3	JAPAN 441	Business Japanese I	3
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries (if not selected as one of the introductory courses)	3	JAPAN 351	Japanese Performance Traditions	3
HIST 286	The Korean War	3	JAPAN 355	Seminar in Japanese Literature and Culture:	3
HIST 287	The Vietnam War	3	JEWISH 328	The Arab-Israeli Conflict	3
HIST 290	Topics in Global History:	3	JEWISH 358	The Jews of Modern Europe: History and Culture	3
HIST 341	Imperial Russia	3	JEWISH 421	Introduction to Yiddish Literature:	3
HIST 343	Russia Since 1917	3	LACS 101	Introduction to Latin American and Caribbean Studies	3
HIST 348	Poland and Its Neighbors, 1945 to the Present	3	LACUSL 300	Advanced Topics in Latin American, Caribbean, and U.S. Latinx Studies: (Latino, Latin American, and Caribbean Cities)	3
HIST 363	Germany: Hitler and the Nazi Dictatorship	3	NURS 301	Introduction to Global Health	3
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3	PEACEST 203	Introduction to Peace and Conflict Studies	3
HIST 372	Topics in Global History:	3	PHILOS 204	Introduction to Asian Religions	3
HIST 377	Modern China	3	PHILOS 237	Technology, Values, and Society	3
HIST 378	Revolution in China	3	POLISH 236	Polish Culture in its Historical Setting	3
HIST 386	Africans in World History: Communities, Cultures, and Ideas	3	POL SCI 300	Western European Politics	3
HIST 387	Colonization in Africa: A History of Resistance and Adaptation	3	POL SCI 310	Russian and Post-Soviet Politics	3
HIST 392	The History of Southern Africa	3	POL SCI 312	The Politics of Authoritarian Regimes	3
HIST 393	History of Mexico	3	POL SCI 316	International Law	3
HIST 394	History of Japan to 1600	3	POL SCI 320	Politics of Developing Countries	3
HIST 395	History of Japan Since 1600	3	POL SCI 325	Latin American Politics	3
HIST 400	Topics in Latin American and Caribbean History:	3	POL SCI 330	The Politics of International Economic Relations	3
HIST 401	Topics in Middle Eastern History:	3	POL SCI 333	Seminar in Comparative Politics:	3
HIST 402	Topics in Asian History:	3	POL SCI 335	Comparative Political Systems	3
HIST 434	The United States as a World Power in the 20th Century	3	POL SCI 337	International Organization and the United Nations	3
HONORS 200	Honors Seminar: The Shaping of the Modern Mind:	3	POL SCI 338	Seminar in International Relations:	3
INTLST 260	Introduction to International Careers	2	POL SCI 339	European Integration	3
INTLST 450	Internship in International Studies	2-6	POL SCI 340	Politics of Nuclear Weapons	3
INTLST 699	Independent Study	1-6	POL SCI 343	Asian International Relations	3
ITALIAN 245	Italy and Its Global Fictions: (subtitle)	3	POL SCI 345	Korean Politics and Foreign Policy	3
ITALIAN 256	Introduction to Italian Food Studies: A Cultural History	3	POL SCI 355	The Politics of Economic Inequality	3
ITALIAN 312	Contemporary Italian Language and Culture	3	POL SCI 359	Problems of American Foreign Policy	3
ITALIAN 321	Introduction to Italian Literature	3	POL SCI 361	History of International Political Thought	3
ITALIAN 322	Introduction to Italian Literature and Film	3	POL SCI 365	Theories and Methods in International Politics	3
ITALIAN 457	Topics in Italian Literature and Culture in Translation:	3	POL SCI 370	International Conflict	3
JAPAN 110	Japanese Popular Culture	3	POL SCI 371	Nationalism and Ethnic Conflict	3
JAPAN 200	Japanese Culture and Its Effect on Language	3	POL SCI 374	Health, Wealth, and Democracy	3
JAPAN 321	Analyzing Hollywood-Japan Film Remakes	3	POL SCI 377	Elections in the Modern World	3
JAPAN 331	Reading Japanese Short Stories	3	POL SCI 379	Morality, Conflict and War	3
			POL SCI 381	The Development of Western Political Thought	3
			POL SCI 382	Modern Political Thought	3
			POL SCI 391	Current Crises and Events in International Relations	3
			POL SCI 423	Conduct of American Foreign Affairs	3

PORTUGS 225	Understanding Brazil:	3
PORTUGS 299	Ad Hoc:	1-6
PORTUGS 360	Luso-Brazilian Culture:	3
PORTUGS 499	Ad Hoc: (Understanding Portuguese-Speaking Africa)	3
RUSSIAN 245	Russian Life and Culture	3
RUSSIAN 350	Dostoyevsky and Tolstoy in Translation: Major Works	3
RUSSIAN 391	Russian Literature and Culture in Translation:	3
SOCIOL 324	Race and Ethnicity in Global Contexts	3
SOCIOL 325	Social Change	3
SOCIOL 331	Sociology of Health Care	3
SOCIOL 350	Environmental Sociology	3
SOCIOL 377	Urbanism and Urbanization	3
SOCIOL 495	Seminar in Sociology: (International Urban Sociology)	3
SPANISH 225	Understanding the Hispanic World: (subtitle)	3
SPANISH 332	Using Spanish in the Business World	3
SPANISH 342	Business and Legal Spanish	3
SPANISH 350	Introduction to Literary Analysis	3
SPANISH 371	Introduction to Latino Literature in English	3
SPANISH 391	Social and Historical Issues in the Hispanic World:	3
SPANISH 470	Survey of Hispanic Literature and Civilization	3
SPANISH 472	Survey of Spanish-American Literature and Civilization	3
SPANISH 474	Survey of Spanish Literature and Civilization	3
SPANISH 491	Topics in Hispanic Culture:	3
SPANISH 506	Seminar in Spanish Literature:	3
SPANISH 507	Seminar in Spanish-American Literature:	3
SPANISH 570	Seminar in Spanish Golden Age Literature:	3
URBPLAN 315	Great Cities of the World: Their Growth and Guided Urbanization	3
URBPLAN 684	Planning Local Economic Development	3
WGS 500	Advanced Social Science Seminar in Women's and Gender Studies: (Gender in Asia)	3

Current students with questions about the International Studies major can contact Assistant Director, Christine Wolf, [cawolf@uwm.edu](mailto:cawolf@uwm.edu).

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your

entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Honors and high honors in the major are awarded at graduation to students who achieve the following:

**Honors:** at least a 3.0 overall GPA with a 3.5 GPA on all credits attempted in the major and a 3.50 GPA on all advanced credits attempted in the major;

**High Honors:** at least a 3.0 overall GPA with a 3.75 GPA on all credits attempted in the major and a 3.75 GPA on all advanced credits attempted in the major.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.



## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## International Studies, Minor

Students in UWM's International Studies minor take courses in history, political science, economics, anthropology, comparative literature, and foreign languages to build a program around their own specialized interests in international relations, politics, economics, or development.

Understanding the nuances of globalization in our personal and professional lives, speaking the languages of others, and appreciating cultural diversity are essential skills for living and working in the world today. The International Studies minor is based on the principles of the liberal arts with an emphasis on broad knowledge of people, places, and institutions, making for more adaptable and marketable young professionals in a fast-moving global economy. International studies minors learn to interact across cultures, study languages, analyze problems across cultural or national boundaries, adapt to new situations, appreciate differences in people and processes, and problem solve across different areas and formats.

With this background, students enhance their skill set preparing them for today's job opportunities in many different industries and for many different roles. Career choices immediately after college are often influenced by the hands-on experiences obtained during the college years. Students are encouraged to explore all of their options through internships, which may be completed for credit as part of the program.

Similarly, while not required for the minor, a study abroad (<http://uwm.edu/cie/study-abroad/>) experience can open up new opportunities that would not have even been imagined prior to going abroad. UWM has programs at more than 70 sites around the world that vary in length from a few weeks of immersion, to semester-long, to even full year programs.

Students often wonder what the differences are between Global Studies and International Studies. The foreign language requirements for the International Studies program are not as stringent as those in Global Studies, and study abroad or internship experiences are not required for International Studies. In addition, International Studies coursework is focused exclusively on courses found in the College of Letters & Science.

## Requirements

The International Studies minor consists of a total of 18 credits, in which students must attain a GPA of 2.0 in all UWM credits attempted for the

minor. In addition, the College requires that students attain a 2.0 GPA in all minor credits attempted, including transfer work. Students must complete in residence at UWM at least 9 credits of upper-division courses (numbered 300 and above) in the minor. Students may declare the minor after completing at least 15 credits.

Code	Title	Credits
<b>Required</b>		
INTLST 550	Senior Seminar in International Studies: (satisfies L&S research requirement)	3
Select one of the following:		3-4
ANTHRO 560	Introduction to Research Methods in Anthropology	
ANTHRO 561	Techniques and Problems in Ethnography	
ECON 210	Economic Statistics	
GEOG 215	Introduction to Geographic Information Science	
HIST 294	Seminar on Historical Method: Research Techniques	
MTHSTAT 215	Elementary Statistical Analysis	
POL SCI 203	Introduction to Political Science Research	
POL SCI 390	Political Data Analysis	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	
WGS 411	Women's and Gender Studies Research Methods:	
<b>Options</b>		
Select two courses from one of the options (A, B, or C) listed below:		6
Option A: International Politics and World Affairs		
Option B: International Economics and Development		
Option C: World Languages and Culture		
<b>Electives</b>		
Select 6 credits from the approved list of electives		6
<b>Total Credits</b>		<b>18-19</b>

### Option A: International Politics and World Affairs

This option emphasizes political aspects of international studies.

Code	Title	Credits
ECON 351	Introduction to International Economic Relations	3
ECON 353	Economic Development	3
HIST 434	The United States as a World Power in the 20th Century	3
POL SCI 316	International Law	3
POL SCI 337	International Organization and the United Nations	3
POL SCI 338	Seminar in International Relations: (part of UN Summer Seminar)	3
POL SCI 340	Politics of Nuclear Weapons	3
POL SCI 359	Problems of American Foreign Policy	3
POL SCI 361	History of International Political Thought	3

POL SCI 365	Theories and Methods in International Politics	3
POL SCI 370	International Conflict	3
POL SCI 371	Nationalism and Ethnic Conflict	3

### Option B: International Economics and Development

This option emphasizes the political, economic, and cultural aspects of developing countries as well as the economic aspects of international studies.

Code	Title	Credits
BUS ADM 465	International Marketing	3
BUS ADM 496	International Business	3
ECON 301	Intermediate Microeconomics	3
ECON 302	Intermediate Macroeconomics	3
ECON 351	Introduction to International Economic Relations	3
ECON 353	Economic Development	3
ECON 454	International Trade	3
ECON 455	International Finance	3
POL SCI 316	International Law	3
POL SCI 330	The Politics of International Economic Relations	3
POL SCI 370	International Conflict	3
URBPLAN 315	Great Cities of the World: Their Growth and Guided Urbanization	3
URBPLAN 684	Planning Local Economic Development	3

### Option C: World Languages and Culture

This option emphasizes the cultural aspects of international studies, examining topics such as globalization and politics from a range of perspectives.

Code	Title	Credits
ANTHRO 355	Globalization, Culture, and Environment	3
ANTHRO 431	Cities and Culture	3
ANTHRO 432	Law and Society	3
ANTHRO 433	Contemporary Issues in Global Justice	3
ANTHRO/GLOBAL 442	Humanitarianism in Global Perspective	3
ANTHRO/GLOBAL 447	The Global Politics of Human Rights	3
ANTHRO 449	The Human Economy	3
ANTHRO 450	Political Anthropology	3
ANTHRO 543	Cross-Cultural Study of Religion	3
ARABIC 390	Islam: Religion and Culture	3
CHINESE 320	Contemporary Chinese Societies through Film	3
CHINESE 343	Chinese Martial Arts Fiction	3
COMPLIT 231	Literature and Religion:	3
COMPLIT 232	Literature and Politics:	3
ENGLISH 278	Introduction to World Literatures Written in English:	3
ENGLISH 316	World Cinema:	3
ENGLISH 522	Studies in World Literature Written in English:	3
GLOBAL 351	Language, Media, and Social Practice in Global Communications	3

HIST 210	The Twentieth Century: A Global History	3
HIST 290	Topics in Global History:	3
HIST 372	Topics in Global History:	3
ITALIAN 245	Italy and Its Global Fictions:	3
ITALIAN 457	Topics in Italian Literature and Culture in Translation:	3
JAPAN 351	Japanese Performance Traditions	3
JAPAN 355	Seminar in Japanese Literature and Culture:	3
RUSSIAN 350	Dostoyevsky and Tolstoy in Translation: Major Works	3
RUSSIAN 391	Russian Literature and Culture in Translation:	3
SPANISH 371	Introduction to Latino Literature in English	3

### Electives

Code	Title	Credits
AFRIC 232	Survey of African Societies and Cultures	3
AFRIC 311	African Religious Thought and Social Organizations	3
AFRIC 320	Black Cultures in Latin America and the Caribbean	3
AFRIC 325	Africa/China Relations	3
AFRIC 329	Economic Growth and Sustainable Development in Africa	3
AFRIC 334	Survey of Black American and Black Brazilian Societies	3
AFRIC 344	Global Black Social Movements	3
AFRIC 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
AFRIC 352	Extended Families in Black Societies	3
AFRIC 362	Philosophy and Thought in Africa and the Diaspora II	3
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	3
AFRIC 418	Race, Class, and Gender in Latin America and the Caribbean	3
AFRIC 420	The Political Economy of Slavery	3
AFRIC 565	Selected Texts/Topics in African & African Diaspora Studies:	3
AMLLC 216	Survey of Civilization:	3
ANTHRO 102	Introduction to Anthropology: Culture and Society	3
ANTHRO 104	Lifeways in Different Cultures: A Survey of World Societies	3
ANTHRO 156	Food and Culture	3
ANTHRO 250	Women's Roles in Cross-Cultural Perspective	3
ANTHRO 320	Peoples and Cultures of Africa	3
ANTHRO 326	Peoples and Cultures of South Asia	3
ANTHRO 349	Seminar in Ethnography and Cultural Processes	3
ANTHRO 355	Globalization, Culture, and Environment	3

ANTHRO 362	System Failure: Globalization and Language Extinction	3	COMPLIT 208	Global Literature from the 17th Century to the Present:	3
or GLOBAL 362	System Failure: Globalization and Language Extinction		COMPLIT 231	Literature and Religion: (Nazis and Anti-Semitic Propaganda)	3
ANTHRO 381	Honors Seminar: (with appropriate subtitle)	3	COMPLIT 232	Literature and Politics:	3
ANTHRO 431	Cities and Culture	3	COMPLIT 233	Literature and Film:	3
ANTHRO 440	Medical Anthropology	3	COMPLIT 230	Literature and Society: (subtitle)	3
ANTHRO 441	Nature, Knowledge, and Technoscience in Anthropological Perspective	3	COMPLIT 350	Topics in Comparative Literature: (subtitle)	3
ANTHRO 442	Humanitarianism in Global Perspective	3	COMPLIT 360	Seminar in Literature and Cultural Experience: (subtitle)	3
or GLOBAL 442	Humanitarianism in Global Perspective		COMPLIT 461	Film-Fiction Interaction: (subtitle)	3
ANTHRO 443	Medicine and Pharmaceuticals in the Global Age	3	COMPLIT 463	Literary Criticism: Major Authors	3
ANTHRO 445	Psychological Anthropology	3	COMPLIT 464	Seminar in Comparative Literary Criticism: (subtitle)	3
ANTHRO 446	The Child in Different Cultures	3	ECON 248	Economics of Discrimination	3
ANTHRO 447	The Global Politics of Human Rights	3	ECON 301	Intermediate Microeconomics	3
or GLOBAL 447	The Global Politics of Human Rghts		ECON 302	Intermediate Macroeconomics	3
ANTHRO 448	Cultural and Human Ecology	3	ECON 310	Research Methods for Economics	3
ANTHRO 449	The Human Economy	3	ECON 328	Environmental Economics	3
ANTHRO 450	Political Anthropology	3	ECON 351	Introduction to International Economic Relations	3
ANTHRO 540	Applications of Anthropology	3	ECON 353	Economic Development	3
ANTHRO 543	Cross-Cultural Study of Religion	3	ECON 411	Economic Forecasting Methods	3
ANTHRO 561	Techniques and Problems in Ethnography	3	ECON 413	Statistics for Economists	3
ANTHRO 641	Seminar in Anthropology:	3	ECON 447	Labor Economics	3
ARABIC 111	Cultures and Civilizations of the Muslim Middle East	3	ECON 450	Health Economics	3
ART 509	Art & Design Seminar:	3	ECON 454	International Trade	3
ARTHIST 205	History of Film I: Development of an Art	3	ECON 455	International Finance	3
ARTHIST 206	History of Film II: Development of an Art	3	ECON 489	Internship in Economics, Upper Division	1-6
ARTHIST 382	Chinese Art and Architecture	3	ED POL 698	Fieldwork in International Education	1-6
ARTHIST 481	Topics in Chinese Art:	3	ENGLISH 210	Global Englishes	3
BUS ADM 201	Introduction to Financial Accounting	4	ENGLISH 214	Writing in the Professions: (International Business Writing)	3
BUS ADM 456	International Financial Management	3	ENGLISH 278	Introduction to World Literatures Written in English:	3
BUS ADM 465	International Marketing	3	ENGLISH 285	Modern Irish Language and Literature in Translation	3
BUS ADM 496	International Business	3	ENGLISH 306	Survey of Irish Literature	3
CHINESE 150	Contemporary Chinese Society and Culture	3	ENGLISH 312	Topics in Film, Television and Digital Studies:	3
CHINESE 200	Chinese Calligraphy	3	ENGLISH 316	World Cinema: (subtitle)	3
CHINESE 320	Contemporary Chinese Societies through Film	3	ENGLISH 381	World Literatures Written in English: (subtitle)	3
COMMUN 310	Communication in Organizations	3	ENGLISH 404	Language, Power, and Identity	3
COMMUN 350	Intercultural Communication	3	ENGLISH 522	Studies in World Literature Written in English:	3
COMMUN 363	Communication in Human Conflict	3	ENGLISH 622	Seminar in Irish Literature:	3
COMMUN 450	Cross-Cultural Communication	3	ENGLISH 624	Seminar in Modern Literature:	3
COMMUN 550	International and Global Communication	3	ENGLISH 625	Seminar in Literary History: (subtitle)	3
COMMUN 665	Introduction to Mediation	3	ENGLISH 627	Seminar in Literature and Culture:	3
COMPLIT 135	Experiencing Literature in the 21st Century:	3	ETHNIC 250	Selected Topics in Ethnic Studies: (with appropriate subtitle)	3
COMPLIT 207	Global Literature from Antiquity to the 1600s:	3			

FRENCH 324	Contemporary French Language and Culture	3	GLOBAL 489	International Internship in Global Studies, Upper Division	1-6
FRENCH 357	Literature of the French-Speaking World in Translation:	3	GLOBAL 497	Study Abroad:	1-12
FRENCH 426	Growing Up French	3	GLOBAL 499	Ad Hoc:	1-6
FRENCH 430	Reaction and Innovation: French Culture of the 19th and 20th Centuries	3	GLOBAL 541	Cross-Cultural Management	3
FRENCH 431	Seminar in Literature of the Francophone World:	3	HIST 180	Latin American Society and Culture	3
FRENCH 432	Seminar in French and Francophone Cultures: (subtitle)	3	HIST 200	Historical Roots of Contemporary Issues: (Cuba Under Castro)	3
FRENCH 450	Institutions and Culture of Contemporary France	3	HIST 210	The Twentieth Century: A Global History	3
FRENCH 451	Cinema of the French-Speaking World: (subtitle)	3	HIST 236	Britain Since 1688: Rise and Decline of a Great Power	3
FRENCH 510	Seminar on Masterpieces of Literature Written in French:	3	HIST 242	Women and Gender in Europe: 1750 to the Present (if not selected as one of the introductory courses)	3
GEOG 115	Globalization and Economic Development	3	HIST 248	The First World War	3
GEOG 125	Introduction to Environmental Geography	3	HIST 249	The Second World War in Europe	3
GEOG 213	Geography of Asia	3	HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries (if not selected as one of the introductory courses)	3
GEOG 309	Nationalities and Nations of the World	3	HIST 286	The Korean War	3
GEOG 330	Europe: East and West	3	HIST 287	The Vietnam War	3
GEOG 333	Muslim Geographies: Identities and Politics	3	HIST 290	Topics in Global History:	3
GEOG 443	Cities of the World: Comparative Urban Geography	3	HIST 341	Imperial Russia	3
GERMAN 333	Texts and Contexts	3	HIST 343	Russia Since 1917	3
GERMAN 334	Introduction to German Studies	3	HIST 348	Poland and Its Neighbors, 1945 to the Present	3
GERMAN 360	German for the Global World	3	HIST 363	Germany: Hitler and the Nazi Dictatorship	3
GERMAN 415	Topics in German Studies:	3	HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3
GERMAN 460	German Literature from 1945 to the Present	3	HIST 372	Topics in Global History:	3
GLOBAL 101	Introduction to Global Studies I: People and Politics	3	HIST 377	Modern China	3
GLOBAL 201	Introduction to Global Studies II: Economics and the Environment	3	HIST 378	Revolution in China	3
GLOBAL 202	Introduction to Global Studies III: Globalization and Technology	3	HIST 386	Africans in World History: Communities, Cultures, and Ideas	3
GLOBAL 297	Study Abroad:	1-12	HIST 387	Colonization in Africa: A History of Resistance and Adaptation	3
GLOBAL 311	Contexts for Global Management	3	HIST 392	The History of Southern Africa	3
GLOBAL 351	Language, Media, and Social Practice in Global Communications	3	HIST 393	History of Mexico	3
GLOBAL 362	System Failure: Globalization and Language Extinction	3	HIST 394	History of Japan to 1600	3
GLOBAL 371	Rethinking Global Security	3	HIST 395	History of Japan Since 1600	3
GLOBAL 442	Humanitarianism in Global Perspective	3	HIST 400	Topics in Latin American and Caribbean History:	3
GLOBAL 443	Medicine and Pharmaceuticals in the Global Age	3	HIST 401	Topics in Middle Eastern History:	3
GLOBAL 447	The Global Politics of Human Rights	3	HIST 402	Topics in Asian History:	3
GLOBAL 451	Access, Security, and Intercultural Contexts in Global Communications	3	HIST 434	The United States as a World Power in the 20th Century	3
GLOBAL 471	Strategies for Realizing Security in Global Contexts	3	HONORS 200	Honors Seminar: The Shaping of the Modern Mind:	3
			INTLST 260	Introduction to International Careers	2
			INTLST 450	Internship in International Studies	2-6
			INTLST 699	Independent Study	1-6
			ITALIAN 245	Italy and Its Global Fictions:	3

ITALIAN 256	Introduction to Italian Food Studies: A Cultural History	3	POL SCI 370	International Conflict	3
ITALIAN 312	Contemporary Italian Language and Culture	3	POL SCI 371	Nationalism and Ethnic Conflict	3
ITALIAN 321	Introduction to Italian Literature	3	POL SCI 374	Health, Wealth, and Democracy	3
ITALIAN 322	Introduction to Italian Literature and Film	3	POL SCI 377	Elections in the Modern World	3
ITALIAN 457	Topics in Italian Literature and Culture in Translation:	3	POL SCI 379	Morality, Conflict and War	3
JAPAN 110	Japanese Popular Culture	3	POL SCI 381	The Development of Western Political Thought	3
JAPAN 200	Japanese Culture and Its Effect on Language	3	POL SCI 382	Modern Political Thought	3
JAPAN 321	Analyzing Hollywood-Japan Film Remakes	3	POL SCI 391	Current Crises and Events in International Relations	3
JAPAN 331	Reading Japanese Short Stories	3	POL SCI 423	Conduct of American Foreign Affairs	3
JAPAN 441	Business Japanese I	3	PORTUGS 225	Understanding Brazil:	3
JEWISH 328	The Arab-Israeli Conflict	3	PORTUGS 299	Ad Hoc:	1-6
JEWISH 358	The Jews of Modern Europe: History and Culture	3	PORTUGS 360	Luso-Brazilian Culture:	3
JEWISH 421	Introduction to Yiddish Literature:	3	PORTUGS 499	Ad Hoc: (Understanding Portuguese-Speaking Africa)	3
LACS 101	Introduction to Latin American and Caribbean Studies	3	RUSSIAN 245	Russian Life and Culture	3
LACUSL 300	Advanced Topics in Latin American, Caribbean, and U.S. Latinx Studies: (Latino, Latin American, and Caribbean Cities)	3	RUSSIAN 350	Dostoyevsky and Tolstoy in Translation: Major Works	3
NURS 301	Introduction to Global Health	3	RUSSIAN 391	Russian Literature and Culture in Translation:	3
PEACEST 203	Introduction to Peace and Conflict Studies	3	SOCIOI 324	Race and Ethnicity in Global Contexts	3
PHILOS 204	Introduction to Asian Religions	3	SOCIOI 325	Social Change	3
PHILOS 237	Technology, Values, and Society	3	SOCIOI 331	Sociology of Health Care	3
POLISH 236	Polish Culture in its Historical Setting	3	SOCIOI 350	Environmental Sociology	3
POL SCI 300	Western European Politics	3	SOCIOI 377	Urbanism and Urbanization	3
POL SCI 310	Russian and Post-Soviet Politics	3	SOCIOI 495	Seminar in Sociology: (International Urban Sociology)	3
POL SCI 312	The Politics of Authoritarian Regimes	3	SPANISH 225	Understanding the Hispanic World:	3
POL SCI 316	International Law	3	SPANISH 332	Using Spanish in the Business World	3
POL SCI 320	Politics of Developing Countries	3	SPANISH 342	Business and Legal Spanish	3
POL SCI 325	Latin American Politics	3	SPANISH 350	Introduction to Literary Analysis	3
POL SCI 330	The Politics of International Economic Relations	3	SPANISH 371	Introduction to Latino Literature in English	3
POL SCI 333	Seminar in Comparative Politics:	3	SPANISH 391	Social and Historical Issues in the Hispanic World:	3
POL SCI 335	Comparative Political Systems	3	SPANISH 470	Survey of Hispanic Literature and Civilization	3
POL SCI 337	International Organization and the United Nations	3	SPANISH 472	Survey of Spanish-American Literature and Civilization	3
POL SCI 338	Seminar in International Relations:	3	SPANISH 474	Survey of Spanish Literature and Civilization	3
POL SCI 339	European Integration	3	SPANISH 491	Topics in Hispanic Culture: (subtitle)	3
POL SCI 340	Politics of Nuclear Weapons	3	SPANISH 506	Seminar in Spanish Literature: (subtitle)	3
POL SCI 343	Asian International Relations	3	SPANISH 507	Seminar in Spanish-American Literature:	3
POL SCI 345	Korean Politics and Foreign Policy	3	SPANISH 570	Seminar in Spanish Golden Age Literature:	3
POL SCI 355	The Politics of Economic Inequality	3	URBPLAN 315	Great Cities of the World: Their Growth and Guided Urbanization	3
POL SCI 359	Problems of American Foreign Policy	3	URBPLAN 684	Planning Local Economic Development	3
POL SCI 361	History of International Political Thought	3	WGS 500	Advanced Social Science Seminar in Women's and Gender Studies: (Gender in Asia)	3
POL SCI 365	Theories and Methods in International Politics	3			

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Jewish Studies

UWM is one of the only places in the world where students can earn a BA in Jewish Studies completely online. If you are on campus, you can earn your degree in Jewish Studies with a mixture of online and in-

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Rachel N. Baum	Senior Lecturer	PhD	University of Wisconsin-Milwaukee		
Yael Gal Ben Yitschak	Senior Lecturer	MA	Middlebury College		
Joel Berkowitz	Professor	PhD	City University of New York Graduate Center	✓	
David Brusin	Senior Lecturer	DD	Reconstructionist Rabbinical College		
Dana Margolis	Senior Lecturer	MA	University of Texas at Austin		
Lisa Silverman	Associate Professor	PhD	Yale University	✓	

## Holocaust, Genocide, and Human Rights Studies, Undergraduate Certificate

The Certificate in Holocaust, Genocide, and Human Rights Studies is a multidisciplinary Certificate that confronts the social forces that lead to genocide. With the Holocaust as its foundation, the Certificate encourages students to look broadly at the moral, social, and political contexts of genocide and post-genocide memory and to use their understanding of the Holocaust and genocide to create meaningful change in our world.

## Eligibility

The program is open to undergraduates and to post-baccalaureate special students.

Undergraduate students concurrently completing a bachelor's degree receive the certificate upon completion of their degree requirements; post-baccalaureate special students receive the certificate upon completion of the required coursework.

person classes. UWM is also one of the only places where you can learn Modern Hebrew in fully online classes, allowing you to take classes from anywhere in the world and to fit language learning into the rest of your schedule. Special pricing for out-of-state students for Jewish Studies and Hebrew courses greatly reduces the cost from regular out-of-state rates.

Studying Jewish Studies at UWM allows you to engage richly with the culture and religion of the Jewish people through language, history, arts, media, politics, and literature. Our personalized program really lets you get to know your professors. Our approach to Jewish Studies is broad and inclusive, attracting Jewish and non-Jewish students.

Our students go on to careers in Holocaust education, Jewish communal services, religious education, or on to rabbinical school or advanced graduate study. Some of our students double major in Jewish Studies and History, or Jewish Studies and Religious Studies, as some of our courses count for both majors.

Contact us for more information - we look forward to speaking with you.

## Programs

- Holocaust, Genocide, and Human Rights Studies, Undergraduate Certificate (p. 1142)
- Jewish Studies, BA (p. 1143)
- Jewish Studies, Minor (p. 1147)

## Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.0, at least 18 credits (at least 6 courses) in courses approved for the certificate, of which at least 12 credits must be in Letters and Science courses, with 6 of those at the 300 level or above. At least 12 credits must be earned in residence at UWM, and at least 9 of the credits taken in residence must be at the 300 level or above. No more than 12 credits from any one department may count toward the certificate. Courses for the certificate may not be taken on a credit/no credit bases.

Code	Title	Credits
<b>Core Courses</b>		<b>9</b>
Select three courses from the following list. One course must be from the History curricular area.		
HIST 363	Germany: Hitler and the Nazi Dictatorship	
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	

JEWISH 247	Topics in Jewish Literature, Art, and Culture: (w/appropriate topic)
JEWISH 261	Representing the Holocaust in Words and Images
JEWISH 321	The Holocaust and the Politics of Memory
JEWISH 368	Jewish and Christian Responses to the Holocaust
<b>Electives</b> <sup>1</sup>	<b>9</b>
AFRIC 111	Introduction to African-American History to 1865
AFRIC 112	Introduction to African-American History, 1865 to the Present
AFRIC 420	The Political Economy of Slavery
ANTHRO 426	Who Owns the Past?
ANTHRO/GLOBAL 442	Humanitarianism in Global Perspective
COMPLIT 230	Literature and Society: (with appropriate subtitle)
COMPLIT 309	Great Works of Modern Literature: (with appropriate subtitle)
COMPLIT 360	Seminar in Literature and Cultural Experience: (with appropriate subtitle)
COMPLIT 461	Film-Fiction Interaction: (with appropriate subtitle)
GLOBAL 447	The Global Politics of Human Rghts
HIST 363	Germany: Hitler and the Nazi Dictatorship (if not selected above)
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45 (if not selected above)
JEWISH 247	Topics in Jewish Literature, Art, and Culture: (w/appropriate topic, if not selected above)
JEWISH 261	Representing the Holocaust in Words and Images (if not selected above)
JEWISH 368	Jewish and Christian Responses to the Holocaust (if not selected above)
PHILOS 241	Introductory Ethics
PHILOS 242	Introduction to Social and Political Philosophy
PHILOS 243	Moral Problems:
PHILOS 341	Modern Ethical Theories
PHILOS 355	Political Philosophy
PHILOS 384	The Philosophy of Law
SOCIOL 104	Introduction to Social Psychology
<b>Total Credits</b>	<b>18</b>

<sup>1</sup> Other electives may be approved by the coordinator.

## Jewish Studies, BA

Jewish Studies majors at UWM examine the culture and religion of the Jewish people through language, history, arts, media, politics, and literature.

A major in Jewish Studies prepares students for work in a multicultural world with a skill set that includes the ability to analyze texts and weigh different interpretations, present persuasive arguments in writing and speech, and appreciate different backgrounds and viewpoints. Jewish Studies alumni have found careers in social welfare, Jewish organization administration, government, business administration, journalism, the arts, education, and other fields. Further graduate study has led others to careers in religious leadership, medicine, and the law.

UWM students can choose a Hebrew track within the major which has a focus on the foundations of Judaism, including extensive study of the Hebrew language. Or, students can opt for the Jewish Studies track with an emphasis on modern Jewish history, literature, film and politics.

Jewish Studies majors and minors can further their education by participating in UWM's Study Abroad opportunities in Israel. Majors and minors studying in Israel are eligible for travel awards from the Stahl Center for Jewish Studies. The Stahl Center for Jewish Studies also offers other scholarships and awards to outstanding Jewish Studies majors and minors, including a scholarship for majors that helps students in their final semesters, so they can progress to graduation more easily.

A major in Jewish Studies may be of particular interest to students earning a certificate in Middle Eastern and North African Studies, Cultures and Communities, and/or Comparative Ethnic Studies, or as a second major with History or Religious Studies.

The major can be completed fully online for students who need coursework that fits their schedules.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

#### Arts

Select 3 credits 3

#### Humanities

Select 6 credits 6

#### Social Sciences

Select 6 credits 6

#### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

#### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

#### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing

course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete



*the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.*

Complete 3 credits in a course with Cultural Diversity (CD) designation.**	3
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### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	
	Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)	

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		
	Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
<b>Cultural Diversity</b>		

- \* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.
- \*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Major Requirements

All majors in Jewish Studies are required to register with the program at the beginning of their candidacy and are encouraged to speak to the program coordinator as early as possible to plan a course of study.

Jewish Studies majors in both tracks must complete a minimum of 15 advanced-level (numbered 300 and above) credits in L&S courses taken in residence at UWM. A GPA of 2.0 is required in courses taken for the major at UWM and in all courses that count for the major, including transfer work. All majors in Jewish Studies must complete a minimum of 30 credits in the major.

Code	Title	Credits
<b>Core</b>		
Select one of the following:		3
JEWISH 100	Introduction to Judaism	
JEWISH/HIST 358	The Jews of Modern Europe: History and Culture	
JEWISH/HIST 379	Introduction to Jewish History	
<b>Research Requirement (All research courses and projects must be approved by the coordinator)</b>		3
Select one of the following:		
JEWISH 699	Advanced Independent Study	

One of the 300 level or above courses listed below

Major Tracks	
Select one of the following:	24-26
Hebrew Studies Track	
Jewish Cultural Studies Track	
<b>Total Credits</b>	<b>30-32</b>

## Major Tracks

Students must select one of the following two tracks:

### Hebrew Studies Track

Hebrew language courses: Students are required to complete HEBREW 201 and HEBREW 202 in order to graduate in this track. HEBREW 101 and HEBREW 102 count toward the 100-200 level course requirement below.

Code	Title	Credits
HEBREW 201 & HEBREW 202	Third-Semester Hebrew and Fourth-Semester Hebrew	8
Select 6 credits of 100 or 200 level courses from the following:		6
HEBREW 101	First Semester Hebrew	
HEBREW 102	Second Semester Hebrew	
JEWISH 100	Introduction to Judaism (recommended)	
JEWISH 101	Jewish Culture in America: History, Literature, Film	
JEWISH 230	Bible Stories	
JEWISH 231	Introduction to the Old Testament/ Hebrew Bible	
JEWISH 235	The Dead Sea Scrolls and the Bible	
JEWISH 261	Representing the Holocaust in Words and Images	
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	
Select 12 credits of 300 level or above courses from the following:		12
JEWISH 331	Topics in Biblical Literature:	
JEWISH 332	Women in the Bible	
JEWISH/POL SCI 328	The Arab-Israeli Conflict	
JEWISH/FILMSTD 350	Global Jewish Film and Television:	
JEWISH/HIST 358	The Jews of Modern Europe: History and Culture	
JEWISH 368	Jewish and Christian Responses to the Holocaust	
JEWISH/HIST 379	Introduction to Jewish History	
HIST 363	Germany: Hitler and the Nazi Dictatorship	
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	
JEWISH 699	Advanced Independent Study	
<b>Total Credits</b>		<b>26</b>

### Jewish Cultural Studies Track

Code	Title	Credits
Select 9 credits of 100 or 200 level courses from the following:		9
HEBREW 101	First Semester Hebrew	
HEBREW 102	Second Semester Hebrew	
HEBREW 201	Third-Semester Hebrew	
HEBREW 202	Fourth-Semester Hebrew	
JEWISH 101	Jewish Culture in America: History, Literature, Film	
JEWISH 230	Bible Stories	
JEWISH 231	Introduction to the Old Testament/ Hebrew Bible	
JEWISH 235	The Dead Sea Scrolls and the Bible	
JEWISH 261	Representing the Holocaust in Words and Images	
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	
Select 15 credits of 300 level or above courses from the following:		15
JEWISH 331	Topics in Biblical Literature:	
JEWISH 332	Women in the Bible	
JEWISH/POL SCI 328	The Arab-Israeli Conflict	
JEWISH/HIST 358	The Jews of Modern Europe: History and Culture	
JEWISH/HIST 379	Introduction to Jewish History	
JEWISH/FILMSTD 350	Global Jewish Film and Television:	
JEWISH 368	Jewish and Christian Responses to the Holocaust	
HIST 363	Germany: Hitler and the Nazi Dictatorship	
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	
POL SCI 371	Nationalism and Ethnic Conflict	
JEWISH 699	Advanced Independent Study	
<b>Total Credits</b>		<b>24</b>

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;

- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Jewish Studies, Minor

Jewish Studies minors at UWM examine the culture and religion of the Jewish people through language, history, arts, media, politics, and literature.

The Jewish Studies program prepares students for work in a multicultural world with a skill set that includes the ability to analyze texts and weigh different interpretations, present persuasive arguments in writing and speech, and appreciate different backgrounds and viewpoints. Jewish

Studies alumni have found careers in social welfare, Jewish organization administration, government, business administration, journalism, the arts, education, and other fields. Further graduate study has led others to careers in religious leadership as rabbis or cantors.

Jewish Studies minors can further their education by participating in UWM's Study Abroad opportunities in Israel. Majors and minors studying in Israel are eligible for travel awards from the Stahl Center for Jewish Studies. The Stahl Center for Jewish Studies also offers other scholarships and awards to outstanding Jewish Studies majors and minors, including a scholarship for majors that helps students in their final semesters, so they can progress to graduation more easily.

A minor in Jewish Studies may be of particular interest to students earning a certificate in Middle Eastern and North African Studies, Cultures and Communities, and/or Comparative Ethnic Studies, or a major in Religious Studies.

Both the major and minor can be completed fully online for students who need coursework that fits their schedules.

## Requirements

The minor requires completion of a minimum of 18 credits, at least 9 of which must be taken at the 300 level or above in residence at UWM, in courses approved for the major (see list below). Other courses may be counted towards the minor with approval of the coordinator. The College requires that students earn a GPA of at least 2.0 on all credits for the minor attempted at UWM. In addition, students must earn a GPA of 2.0 on all minor credits attempted, including any transfer work.

Select 18 credits from the following:

Code	Title	Credits
HEBREW 101	First Semester Hebrew	4
HEBREW 102	Second Semester Hebrew	4
HEBREW 201	Third-Semester Hebrew	4
HEBREW 202	Fourth-Semester Hebrew	4
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3
HIST 363	Germany: Hitler and the Nazi Dictatorship	3
HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3
JEWISH 100	Introduction to Judaism	3
JEWISH 101	Jewish Culture in America: History, Literature, Film	3
JEWISH 230	Bible Stories	3
JEWISH 231	Introduction to the Old Testament/ Hebrew Bible	3
JEWISH 235	The Dead Sea Scrolls and the Bible	3
JEWISH 261	Representing the Holocaust in Words and Images	3
JEWISH/POL SCI 328	The Arab-Israeli Conflict	3
JEWISH 331	Topics in Biblical Literature:	3
JEWISH 332	Women in the Bible	3
JEWISH/FILMSTD 350	Global Jewish Film and Television:	3
JEWISH/HIST 358	The Jews of Modern Europe: History and Culture	3

JEWISH 368	Jewish and Christian Responses to the Holocaust	3
JEWISH/HIST 379	Introduction to Jewish History	3
JEWISH 699	Advanced Independent Study	1-3

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Jackie Bradway	Lecturer	MA	Webster University		
Camila Guarda Velasco	Lecturer	MFA	Northwestern University		
Jane Hampden Daley	Senior Lecturer	MSJ	Columbia University		
Rachael Jurek	Senior Lecturer	MA	Marquette University		
Eric Lohman	Lecturer	PhD	The University of Western Ontario		
Jessica McBride	Senior Lecturer	MA	University of Wisconsin-Milwaukee		
Michael Mirer	Visiting Assistant Professor	PhD	University of Wisconsin-Madison		
Joette Rockow	Senior Lecturer	MA	University of Wisconsin-Milwaukee		
Marc Tasman	Senior Lecturer	MFA	The Ohio State University		
David Allen	Professor	PhD	University of Minnesota		✓
David Pritchard	Professor	PhD	University of Wisconsin-Madison		✓
Jeffery Smith	Professor	PhD	University of Wisconsin-Madison		✓

## Journalism, Advertising, and Media Studies, BA

The worlds of journalism, advertising, and public relations are changing at a rapid pace with the integration of social media, mobile apps, amateur photography and video, and instant feedback. UWM's Department of Journalism, Advertising, and Media Studies (JAMS) is a great place to learn about the tools used today and to obtain the skills to adapt to the channels of tomorrow.

The Department of Journalism, Advertising, and Media Studies (JAMS) teaches students about the role of media in culture and society and offers hands-on experience in journalism and advertising/public relations.

## Journalism, Advertising, and Media Studies

The Department of Journalism, Advertising, and Media Studies offers a major or minor in journalism, advertising, and media studies that emphasizes the study of the social implications and responsibilities of the mass media, an understanding of the processes of communication, and a fundamental knowledge of media communication techniques and procedures. The program provides students with a broad background in the liberal arts and sciences, which are vital aspects of contemporary life and essential to those entering careers in media communication.

## Cross-listed Courses

The following courses offered by the Department of English may be used to fulfill curricular requirements of the undergraduate major or minor in journalism, advertising, and media studies:

Code	Title	Credits
ENGLISH 430	Advanced Writing Workshop	3
ENGLISH 435	Rhetoric and Professional Writing	3

## Programs

- Journalism, Advertising, and Media Studies, BA (p. 1148)
- Journalism, Advertising, and Media Studies, Minor (p. 1152)

The JAMS major blends liberal arts education in media studies with professional training for work in media fields.

JAMS undergraduate students choose one of three concentrations based on their interests and career aspirations: journalism, advertising/public relations, and media studies. Students have opportunities to learn from media scholars and industry professionals, and they produce media in their chosen areas of study.

Our students report news stories, run social media pages, produce short documentaries and podcasts, and research, plan, and conduct events for nonprofit organizations. JAMS students have several opportunities to learn outside the classroom through active clubs and organizations including a student chapter of the Public Relations Society of America, Ad Club, Journalism Club, The UWM Post, and the Minority Media

Association. Student work is showcased on a student-powered online news site, Media Milwaukee. Many JAMS students have internships which earn major credits.

JAMS majors excel in careers in writing, reporting, editing, marketing, advertising, broadcasting, public relations, social media management, journalism, and more.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		

#### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)	
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#### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

#### Quantitative Literacy

##### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		

##### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

<b>Arts</b>		
Select 3 credits		3

<b>Humanities</b>		
Select 6 credits		6

<b>Social Sciences</b>		
Select 6 credits		6

<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6

<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		

<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3

MATH 175 Mathematical Explorations for Elementary Teachers I 3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways: 0-18		
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College

requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**JAMS Major Requirements**

Students must complete 18 or more credits in courses numbered 300 or above, and at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. Students may count a maximum of 6 credits in any combination of JAMS 399 and JAMS 600, each of which can be taken to a maximum of 6 credits. The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. Students must attain a 2.0 GPA on all major credits attempted, including transfer work.

A Journalism, Advertising, and Media Studies (JAMS) major requires a minimum of 36 credits in JAMS and at least 12 credits in a single program other than JAMS, of which, at least 6 credits must be at the 300 level or above:

Code	Title	Credits
<b>Required</b>		
JAMS 101	Introduction to Mass Media	3
JAMS 201	Media Writing	3
JAMS 559	Freedom of Expression in the Digital Age	3
or JAMS 461	Media Ethics	
Complete 12 credits of JAMS Electives <sup>1</sup>		12
Select 12 credits in a single program outside of JAMS <sup>2</sup>		12
Select at least one JAMS 600-level course with the word "Seminar" in its title to meet the L&S requirement for a research experience in the major		3
<b>Concentration (see requirements listed below)</b>		<b>12</b>
Select one of the following:		
Journalism		
Media Studies		
Advertising/Public Relations		
<b>Total Credits</b>		<b>48</b>

<sup>1</sup> COMMUN 103 and COMMUN 105 also count as lower level JAMS electives.

<sup>2</sup> At least 6 credits must be at the 300 level or above.

**Concentration Requirements**

**Journalism**

Code	Title	Credits
JAMS 204	News Writing	3
JAMS 320	News Reporting	3

Select at least two of the following:		6
JAMS 325	Audio Storytelling	
JAMS 332	Introduction to Digital Documentary	
JAMS 342	Television News Reporting	
JAMS 500	Advanced Integrated Reporting	
JAMS 502	Specialized Reporting:	

**Total Credits 12**

**Media Studies**

Code	Title	Credits
JAMS 262	Principles of Media Studies	3
JAMS 562	Media Studies and Culture	3

Select one of the following: 3

JAMS 207	Introduction to Advertising and Public Relations	
JAMS 231	Publication Design	
JAMS 232	Photojournalism	
JAMS 302	Introduction To Video Storytelling	
JAMS 306	Feature and Magazine Article Writing:	
JAMS 325	Audio Storytelling	
JAMS 336	Media Graphics	
JAMS 370	Introduction to Social Media and Search Engine Optimization	
JAMS 504	Critical and Opinion Writing	

Select one of the following: <sup>1</sup> 3

JAMS 304	News Literacy	
JAMS 450	Race and Ethnicity in the Media	
JAMS 460	History of Mass Media	
JAMS 461	Media Ethics <sup>2</sup>	
JAMS 559	Freedom of Expression in the Digital Age <sup>2</sup>	
JAMS 614	Seminar in Media and Public Opinion	
JAMS 615	Seminar in Media and Politics	
JAMS 620	Seminar in Global Media	
JAMS 660	Seminar in Contemporary Issues in Media Studies:	
JAMS 661	Seminar in Media Communication and Society.	

**Total Credits 12**

<sup>1</sup> One Media Studies course from among the following (in addition to at least one JAMS 600-level course with the word "Seminar" in its title selected to meet the L&S requirement for a research experience in the major).

<sup>2</sup> If JAMS 461 or JAMS 559 is chosen for the Media Studies Elective, it cannot be double-counted as an Upper-Level Core Requirement.

**Advertising/Public Relations**

Code	Title	Credits
JAMS 207	Introduction to Advertising and Public Relations	3
JAMS 307	Persuasive Media Writing and Production:	3
JAMS 524	Advertising and Public Relations Campaigns	3

Select one of the following:	3
JAMS 317	Design for Advertising
JAMS 407	Media Planning
JAMS 417	Branding and Campaign Analysis
JAMS 505	Research for Advertising and Public Relations
<b>Total Credits</b>	<b>12</b>

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Journalism, Advertising, and Media Studies, Minor

The worlds of journalism, advertising, and public relations are changing at a rapid pace with the integration of social media, mobile apps, amateur photography and video, and instant feedback. UWM's Department of Journalism, Advertising, and Media Studies (JAMS) is a great place to learn about the tools used today and to obtain the skills to adapt to the channels of tomorrow.

The Department of Journalism, Advertising, and Media Studies (JAMS) teaches students about the role of media in culture and society and offers hands-on experience in journalism and advertising/public relations. The JAMS major blends liberal arts education in media studies with professional training for work in media fields.

JAMS majors choose one of three concentrations based on their interests and career aspirations: journalism, advertising/public relations, and media studies; minors take a more general array of coursework.

Our students report news stories, run social media pages, produce short documentaries and podcasts, and research, plan, and conduct events for nonprofit organizations. JAMS students have several opportunities to learn outside the classroom through active clubs and organizations including a student chapter of the Public Relations Society of America, Ad Club, Journalism Club, The UWM Post, and the Minority Media Association. Student work is showcased on a student-powered online news site, Media Milwaukee. Many JAMS students have internships which earn major credits.

JAMS majors excel in careers in writing, reporting, editing, marketing, advertising, broadcasting, public relations, social media management, journalism, and more.

## Requirements

A minor in journalism, advertising, and media studies consists of a minimum of 18 credits in journalism, advertising, and media studies including:



Code	Title	Credits
JAMS 101	Introduction to Mass Media	3
JAMS 201	Media Writing	3
Select 12 additional JAMS credits		12
<b>Total Credits</b>		<b>18</b>

### Additional Requirements

- At least 9 credits must be at the 300 level or above taken in residence at UWM.
- The College requires that students attain at least a 2.0 GPA on credits in the minor attempted at UWM.
- Students must attain a 2.0 GPA on all minor credits attempted, including transfer work.

### Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

### Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Viktorija Bilić	Assistant Professor	PhD	Heidelberg University, Germany	✓	
Lorena Terando	Associate Professor	PhD	State University of New York at Binghamton	✓	
Leah Leone	Assistant Professor	PhD	University of Iowa	✓	
Kathryn Scholz	Senior Lecturer		University of Minnesota	✓	
Amy Olen	Lecturer	PhD	University of Texas, Austin		

### Language, Literature, and Translation, MA

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from multiple

## Language, Literature & Translation MA in Language, Literature, and Translation (MALLT)

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from five different departments, MALLT offers a flexible program of study tailored to your professional goals. Three departments—French, Italian and Comparative Literature, Foreign Languages and Literature and Translation & Interpreting Studies cooperate in offering this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature; French and Francophone Language, Literature, and Culture; German Language, Literature, and Culture and Translation (Professional Track or Research Track). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics or Spanish to complete double concentrations, or the joint MLIS/MALLT of MBA/MALLT (Translation) coordinated degrees.

### Programs

- Language, Literature, and Translation, MA (p. 1153)
- Language, Literature, and Translation, MA/Library and Information Science, MLIS (p. 1155)
- Language, Literature, and Translation, MA: Comparative Literature (p. 1156)
- Language, Literature, and Translation, MA: French and Francophone Language, Literature, and Culture (p. 1157)
- Language, Literature, and Translation, MA: German Language, Literature, and Culture (p. 1159)
- Language, Literature, and Translation, MA: Interpreting (p. 1160)
- Language, Literature, and Translation, MA: Linguistics (p. 1162)
- Language, Literature, and Translation, MA: Spanish and Hispanophone Language, Literature, and Culture (p. 1163)
- Language, Literature, and Translation, MA: Translation (p. 1165)

departments, MALLT offers a highly flexible program of study tailored to your professional goals.

Three departments — Global Studies; Ancient and Modern Languages, Literatures, and Cultures; and Translation & Interpreting Studies cooperate to offer this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language,

literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1156); French and Francophone Language, Literature, and Culture (p. 1157); German Language, Literature, and Culture (p. 1159), Translation (p. 1165) (Professional Track or Research Track), and Interpreting (p. 1160). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1162); Spanish (p. 1163); Translation (p. 1165) or Interpreting (p. 1160) to complete double concentrations, or the joint Master of Library Information Sciences/ MALLT coordinated degree.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program ([mallt-program@uwm.edu](mailto:mallt-program@uwm.edu)) for more information.

Being bilingual is not enough to be a successful translator. Professional translators must be experts in both source and target cultures, skilled readers of the source language and superb writers of the target language. In addition, they need expertise in an area of specialization and a solid grasp of the language-services industry.

Our Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

- be an in-house translator
- be a freelancer
- be a translation company owner
- specialize in your area of interest
- pursue doctoral studies
- develop your professional skills without pursuing a degree

Please visit this page (<https://uwm.edu/translation-interpreting-studies/contact/request-for-information/>) to request more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
  - **Language concentrations:** an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.

- **Translation tracks:** competence on a qualifying examination.
  - **Comparative Literature concentration:** an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
  - **Linguistics concentration:** an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.
2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.
  3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

## Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

### Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6

Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth. 24

**Total Credits** 30

## Additional Requirements

### Transfer of Credits

Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student's chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor's prior approval.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Language, Literature, and Translation, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*

- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

## Credits and Courses

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

**Note:** The full requirements for MALLT concentrations appear below. Some electives are waived for the MLIS/MALLT program.

### Linguistics Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

Code	Title	Credits
<b>Core Seminars</b>		
Selected two of the following:		6
LINGUIS 708	Proseminar in Linguistics	
MALLT 706	Seminar in Foreign Language Methodology and Pedagogy	

CURRINS 800	Master's Seminar in Curriculum and Instruction	
PHILOS 681	Seminar in Advanced Topics: (subtitle)	
<b>Additional Requirements</b>		
LINGUIS 461	Introduction to Phonology	3
LINGUIS 464	Introduction to Syntax	3
Select three additional courses in Linguis		9
Select three additional linguistics courses in or outside the Department of Linguistics		
<b>Electives</b>		
Select 9 credits in consultation with the student's advisor <sup>1</sup>		9
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> May include up to 6 credits in MALLT 790.

### Spanish and Hispanophone Language, Literature, and Culture Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

Code	Title	Credits
Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics		6
Select at least 15 graduate credits in Spanish		15
Select three courses in related areas to give the program breadth		9
<b>Total Credits</b>		<b>30</b>

### Additional Requirements

Students interested in the MALLT/MLIS program will be expected to follow all of the requirements and standards as described in this section of the Catalog. Nine of the 30 credits normally required for a MALLT degree will be satisfied by courses taken in SOIS. In the coordinated degree program, MALLT thesis option credits will be in addition to the 21 required MALLT credits. Courses in related areas must be approved by the Coordinator of MALLT.

- See the [MALLT](#) and MLIS (p. 493) pages for more information.

## Language, Literature, and Translation, MA: Comparative Literature

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from multiple departments, MALLT offers a highly flexible program of study tailored to your professional goals.

Three departments — Global Studies; Ancient and Modern Languages, Literatures, and Cultures; and Translation & Interpreting Studies cooperate to offer this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1156); French and Francophone Language, Literature, and Culture (p. 1157); German Language, Literature, and Culture (p. 1159), Translation (p. 1165) (Professional Track or Research Track), and

Interpreting (p. 1160). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1162); Spanish (p. 1163); Translation (p. 1165) or Interpreting (p. 1160) to complete double concentrations, or the joint Master of Library Information Sciences/ MALLT coordinated degree.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program ([mallt-program@uwm.edu](mailto:mallt-program@uwm.edu)) for more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
  - **Language concentrations:** an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
  - **Translation tracks:** competence on a qualifying examination.
  - **Comparative Literature concentration:** an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
  - **Linguistics concentration:** an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.
2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.
3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

## Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

### Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6
	Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.	24
<b>Total Credits</b>		<b>30</b>

### Comparative Literature Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6
	Select at least 15 graduate credits in Comparative Literature	15
	Select three courses in related areas to give the program breadth	9
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Transfer of Credits

Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student's chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic

or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor's prior approval.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Language, Literature, and Translation, MA: French and Francophone Language, Literature, and Culture

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from multiple departments, MALLT offers a highly flexible program of study tailored to your professional goals.

Three departments — Global Studies; Ancient and Modern Languages, Literatures, and Cultures; and Translation & Interpreting Studies cooperate to offer this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1156); French and Francophone Language, Literature, and Culture (p. 1157); German Language, Literature, and Culture (p. 1159), Translation (p. 1165) (Professional Track or Research Track), and Interpreting (p. 1160). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1162); Spanish (p. 1163); Translation (p. 1165) or Interpreting (p. 1160) to complete double concentrations, or the joint Master of Library Information Sciences/ MALLT coordinated degree.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program ([mallt-program@uwm.edu](mailto:mallt-program@uwm.edu)) for more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
  - **Language concentrations:** an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
  - **Translation tracks:** competence on a qualifying examination.
  - **Comparative Literature concentration:** an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
  - **Linguistics concentration:** an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.
2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.
3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

## Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

## Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6
	Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.	24
<b>Total Credits</b>		<b>30</b>

## French and Francophone Language, Literature, and Culture Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6
	Select at least 15 graduate credits in French	15
	Select three courses in related areas to give the program breadth	9
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Transfer of Credits

Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student's chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work.

The student may not register for any courses without this advisor's prior approval.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Language, Literature, and Translation, MA: German Language, Literature, and Culture

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from multiple departments, MALLT offers a highly flexible program of study tailored to your professional goals.

Three departments — Global Studies; Ancient and Modern Languages, Literatures, and Cultures; and Translation & Interpreting Studies cooperate to offer this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1156); French and Francophone Language, Literature, and Culture (p. 1157); German Language, Literature, and Culture (p. 1159), Translation (p. 1165) (Professional Track or Research Track), and Interpreting (p. 1160). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1162); Spanish (p. 1163); Translation (p. 1165) or Interpreting (p. 1160) to complete double concentrations, or the joint Master of Library Information Sciences/ MALLT coordinated degree.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program ([mallt-program@uwm.edu](mailto:mallt-program@uwm.edu)) for more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
  - **Language concentrations:** an undergraduate major in the language, or comparable background, such as coursework, a

significant immersion experience, or native fluency combined with appropriate academic training.

- **Translation tracks:** competence on a qualifying examination.
  - **Comparative Literature concentration:** an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
  - **Linguistics concentration:** an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.
2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.
  3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

## Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

### Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6

Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth. 24

**Total Credits** 30

### German Language, Literature, and Culture Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6
	Select at least 15 graduate credits in German	15
	Select three courses in related areas to give the program breadth	9
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Transfer of Credits

Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student's chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor's prior approval.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

# Language, Literature, and Translation, MA: Interpreting

The Interpreting Track is designed for those considering careers as professional language interpreters.

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from multiple departments, MALLT offers a highly flexible program of study tailored to your professional goals.

Three departments — Global Studies; Ancient and Modern Languages, Literatures, and Cultures; and Translation & Interpreting Studies cooperate to offer this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1156); French and Francophone Language, Literature, and Culture (p. 1157); German Language, Literature, and Culture (p. 1159), Translation (p. 1165) (Professional Track or Research Track), and Interpreting (p. 1160). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1162); Spanish (p. 1163); Translation (p. 1165) or Interpreting (p. 1160) to complete double concentrations, or the joint Master of Library Information Sciences/ MALLT coordinated degree.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program ([mallt-program@uwm.edu](mailto:mallt-program@uwm.edu)) for more information.

Being bilingual is not enough to be a successful translator. Professional translators must be experts in both source and target cultures, skilled readers of the source language and superb writers of the target language. In addition, they need expertise in an area of specialization and a solid grasp of the language-services industry.

Our Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

- be an in-house translator
- be a freelancer
- be a translation company owner
- specialize in your area of interest
- pursue doctoral studies
- develop your professional skills without pursuing a degree

Please visit this page (<https://uwm.edu/translation-interpreting-studies/contact/request-for-information/>) to request more information.



## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
  - **Language concentrations:** an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
  - **Translation tracks:** competence on a qualifying examination.
  - **Comparative Literature concentration:** an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
  - **Linguistics concentration:** an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.
2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.
3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

## Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

### Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6
	Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.	24
<b>Total Credits</b>		<b>30</b>

### Interpreting Requirements

Students must earn thirty graduate credits, as indicated below. Admission is based in part on a qualifying examination.

Code	Title	Credits
<b>Core</b>		
TRNSLTN 820	Translation Theory	3
TRNSLTN 709	Seminar in Literary and Cultural Translation	3
<b>Required</b>		
TRNSLTN 700	Consecutive Interpreting	3
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 711	Ethics in Translation and Interpreting	3
TRNSLTN 722	Simultaneous Interpreting (under development)	3
TRNSLTN 730	Internship in Translation/Interpreting	3
TRNSLTN 750	Community Interpreting and Translation (under development)	3
<b>Electives</b>		
	Select 6 credits which may include the following:	6
TRNSLTN 530	Business and Professional Aspects of Translation	
TRNSLTN 727	Project Management in Translation	
TRNSLTN 728	Editing for Translation	
	Introduction to Translation <sup>1</sup>	
	Advanced Seminar in Translation <sup>1</sup>	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> In French, German, Spanish, Russian, Arabic and Italian to English, or English to Spanish

## Additional Requirements

### Transfer of Credits

Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School

regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

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The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor's prior approval.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Language, Literature, and Translation, MA: Linguistics

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from multiple departments, MALLT offers a highly flexible program of study tailored to your professional goals.

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Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program ([mallt-program@uwm.edu](mailto:mallt-program@uwm.edu)) for more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
  - **Language concentrations:** an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
  - **Translation tracks:** competence on a qualifying examination.
  - **Comparative Literature concentration:** an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
  - **Linguistics concentration:** an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.
2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.
3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

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## Credits and Courses

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The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
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Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

### Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6
	Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.	24
<b>Total Credits</b>		<b>30</b>

### Linguistics Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

Code	Title	Credits
<b>Core Seminars</b>		
	Selected two of the following:	6
LINGUIS 708	Proseminar in Linguistics	
MALLT 706	Seminar in Foreign Language Methodology and Pedagogy	
CURRINS 800	Master's Seminar in Curriculum and Instruction	
PHILOS 681	Seminar in Advanced Topics: (subtitle)	
<b>Additional Requirements</b>		
LINGUIS 461	Introduction to Phonology	3
LINGUIS 464	Introduction to Syntax	3
	Select three additional courses in Linguis	9
	Select three additional linguistics courses in or outside the Department of Linguistics	
<b>Electives</b>		
	Select 9 credits in consultation with the student's advisor <sup>1</sup>	9
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> May include up to 6 credits in MALLT 790.

## Additional Requirements

### Transfer of Credits

Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a

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### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student's chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor's prior approval.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Language, Literature, and Translation, MA: Spanish and Hispanophone Language, Literature, and Culture

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from multiple departments, MALLT offers a highly flexible program of study tailored to your professional goals.

Three departments — Global Studies; Ancient and Modern Languages, Literatures, and Cultures; and Translation & Interpreting Studies cooperate to offer this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1156); French and Francophone Language, Literature, and Culture (p. 1157); German Language, Literature, and Culture (p. 1159), Translation (p. 1165) (Professional Track or Research Track), and Interpreting (p. 1160). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1162); Spanish (p. 1163); Translation (p. 1165) or Interpreting (p. 1160) to complete double concentrations, or the joint Master of Library Information Sciences/ MALLT coordinated degree.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program ([mallt-program@uwm.edu](mailto:mallt-program@uwm.edu)) for more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:
  - **Language concentrations:** an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
  - **Translation tracks:** competence on a qualifying examination.
  - **Comparative Literature concentration:** an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
  - **Linguistics concentration:** an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.
2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.
3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

## Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

### Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6
	Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.	24
<b>Total Credits</b>		<b>30</b>

### Spanish and Hispanophone Language, Literature, and Culture Requirements

The following are the minimum course requirements for a concentration within the Standard Track:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6
	Select at least 15 graduate credits in Spanish	15
	Select three courses in related areas to give the program breadth	9
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Transfer of Credits

Any course submitted for transfer must be no more than five years old at the time of the student's admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master's program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student's chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student's competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student's first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion

of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student's progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor's prior approval.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Language, Literature, and Translation, MA: Translation

The MA in Language, Literature, and Translation (MALLT) is an interdisciplinary MA degree program focused on global languages, literatures and translation. With over 50 faculty from multiple departments, MALLT offers a highly flexible program of study tailored to your professional goals.

Three departments — Global Studies; Ancient and Modern Languages, Literatures, and Cultures; and Translation & Interpreting Studies cooperate to offer this interdepartmental, interdisciplinary master's program designed for the student who wishes to focus on language, literature, and translation on a cross-cultural basis. Students may complete one of the following concentrations: Comparative Literature (p. 1156); French and Francophone Language, Literature, and Culture (p. 1157); German Language, Literature, and Culture (p. 1159), Translation (p. 1165) (Professional Track or Research Track), and Interpreting (p. 1160). In addition to these specific concentrations, students may pursue coursework in Classical Greek; Classics; Hebrew Studies, Italian Studies, Latin; and Slavic Languages. MALLT also allows students interested in Linguistics (p. 1162); Spanish (p. 1163); Translation (p. 1165) or Interpreting (p. 1160) to complete double concentrations, or the joint Master of Library Information Sciences/ MALLT coordinated degree.

Inquiries concerning this program should be directed to the Coordinator of the Language, Literature, and Translation program. Email the MALLT program ([mallt-program@uwm.edu](mailto:mallt-program@uwm.edu)) for more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these program requirements to be considered for admission to the program:

1. Knowledge of a language other than English. Entrance competencies for specific concentrations are as follows:

- **Language concentrations:** an undergraduate major in the language, or comparable background, such as coursework, a significant immersion experience, or native fluency combined with appropriate academic training.
  - **Translation tracks:** competence on a qualifying examination.
  - **Comparative Literature concentration:** an undergraduate major in comparative literature, including advanced study of a language other than English, or equivalent literary and language preparation.
  - **Linguistics concentration:** an undergraduate major in linguistics or in a related field, such as English, a foreign language, psychology, philosophy, or anthropology; and at least a basic-level familiarity with a language other than English, as evidenced by coursework, immersion experience or native fluency.
2. Submission to the MALLT Program of three letters of recommendation, at least two of which should be from instructors acquainted with the student's academic work.
  3. Submission to the MALLT Program of a well-developed statement of approximately 500 words outlining the applicant's academic background and interests, reasons for graduate study in the MALLT program, intended concentration and professional goals.

Applicants who meet general Graduate School requirements (an undergraduate grade point average of at least 2.75) and the above program requirements may be admitted in good standing.

Upon recommendation of the Coordinating Committee, an applicant lacking in course background may be admitted with specified deficiencies in the above on the condition that the deficiencies be made up by the end of the first full semester (9-12 credits). Credits earned in making up deficiencies do not count toward the degree. If an applicant furnishes substantial evidence of capacity to do satisfactory graduate work despite a deficiency in GPA on admission, probationary admission may be recommended.

## Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the MALLT degree requirement of 30 credits.

The MALLT degree offers two tracks:

- the Standard Track within which students may complete one of eight concentrations and
- the Translation Track, which will be designated as a concentration on the student's transcript.

Students are not obligated to elect a concentration, but many will find it beneficial to do so. They also have the option of completing two concentrations, but, in doing so, students must complete all requirements for each concentration and a minimum of 36 credits for the degree.

### Standard Track

Thirty graduate credits are required, 6 of which must be in core seminars in the language, literature, and linguistics areas. The student develops a program of study in consultation with the Major Professor, normally including the following:

Code	Title	Credits
	Select two core seminars as a foundation in basic aspects of languages, literatures, and linguistics	6

Select five to eight courses in a language, literature, or linguistics area to permit concentration in the student's major area of interest. Select the remaining credits in related areas to give the program breadth.

**Total Credits** 30

### Translation Track: Professional

The Professional track is designed for those considering careers as in-house or freelance translators who are not necessarily interested in further study at the doctoral level.

Students must earn thirty graduate credits, as indicated below; they may not count undergraduate credits earned in the Translation Certificate Program. Admission is based in part on a qualifying examination that consists of a 300-word translation from the source to the target language and one 150-word essay in the target language.

Code	Title	Credits
<b>Required</b>		
MALLT/TRNSLTN 709	Seminar in Literary and Cultural Translation	3
TRNSLTN 710	Comparative Systems for Translation <sup>1</sup>	3
TRNSLTN 726	Computer-Assisted Translation	3
TRNSLTN 730	Internship in Translation/Interpreting	3
TRNSLTN 820	Translation Theory	3
<b>Language-Specific Concentrations</b>		
Select one of the following:		6
<i>French to English</i>		
FRENCH 415	Introduction to Translation: French to English	
TRNSLTN 716	Seminar in Advanced Translation: French to English	
<i>German to English</i>		
GERMAN 425	Introduction to German Translation	
GERMAN 525		
<i>Spanish to English</i>		
SPANISH/TRNSLTN 707	Introduction to Translation: Spanish to English	
TRNSLTN 717	Seminar in Advanced Translation: Spanish to English	
<i>English to Spanish</i>		
SPANISH 348	Introduction to Translation: English to Spanish	
<b>Electives</b>		
Select three electives (see below)		9
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Or, for German concentrators, GERMAN 474.

Work in other languages may be possible with the approval of the coordinator, depending upon the availability of appropriate faculty members for language-specific independent study.

### Electives

Select three courses from the following. Additional appropriate courses may be selected with the consent of the program coordinator.

Code	Title	Credits
<b>MALLT/Translation Courses</b>		
LINGUIS/MALLT 708	Proseminar in Linguistics	3
MALLT 790	Thesis (up to 6 credits)	1-6
TRNSLTN 530	Business and Professional Aspects of Translation (Previously FLL 525)	3
A course in the student's area of translation specialization		3
Translation course(s) in another language		3-6
<b>Other Approved Electives</b>		
ENGLISH 434	Editing and Publishing	3
ENGLISH 439	Information Design	3
ENGLISH 708	Advanced Professional Writing	3
ENGLISH 709	Rhetoric, Writing, and Information Technology	3

### Translation Track: Research

The Research track is designed for those considering further study at the doctoral level.

Students must earn thirty graduate credits, as indicated below; they may not count undergraduate credits earned in the Translation Certificate Program. Admission is based in part on a qualifying examination that consists of a 300-word translation from the source to the target language and one 150-word essay in the target language.

Code	Title	Credits
<b>Required</b>		
TRNSLTN 820	Translation Theory	3
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 730	Internship in Translation/Interpreting	3
MALLT/TRNSLTN 799	Reading and Research Critical Theory <sup>1</sup>	3
<b>Language-Specific Concentrations</b>		
Select one of the following:		6
<i>French to English</i>		
FRENCH 415	Introduction to Translation: French to English	
MALLT/TRNSLTN 709	Seminar in Literary and Cultural Translation	
<i>German to English</i>		
GERMAN 425	Introduction to German Translation	
MALLT/TRNSLTN 709	Seminar in Literary and Cultural Translation	
<i>Spanish to English</i>		
SPANISH/TRNSLTN 707	Introduction to Translation: Spanish to English	
MALLT/TRNSLTN 709	Seminar in Literary and Cultural Translation	
<i>English to Spanish</i>		
SPANISH 348	Introduction to Translation: English to Spanish	
MALLT/TRNSLTN 709	Seminar in Literary and Cultural Translation	
<b>Electives</b>		

Select three electives (see below)	9
<b>Total Credits</b>	<b>30</b>

<sup>1</sup> Offered by MALLT, TRNSLTN or another department, with approval of student’s major professor.

Work in other languages may be possible with the approval of the coordinator, depending upon the availability of appropriate faculty members for language-specific independent study.

**Electives**

Select three courses from the following, in consultation with student’s major professor according to the student’s area of interest. Additional appropriate courses may be selected with the consent of the program coordinator or major professor. The list below is not exhaustive.

Code	Title	Credits
	A course in Reading Literature in Translation: Case Studies	3
	A literature course in the student’s source language area	3
	A translation course(s) in the student’s C language	3
	A course in translation or other critical theory (including courses offered by other departments and in languages other than English)	3
TRNSLTN 726	Computer-Assisted Translation	3

**Thesis**

Up to 6 graduate credits may be earned by presentation of a satisfactory thesis. The student’s Major Professor, in consultation with the student, will recommend the names of a Thesis Director and two readers who, upon approval by the Coordinating Committee, will constitute the ad hoc Thesis Committee.

**Program Requirements**

**Comprehensive Examination**

The student must pass both written and oral examinations, prepared and administered by an Examining Committee. The composition of the committee is approved by the Coordinating Committee. If the student fails the examination, they may repeat it once, but no sooner than three months from the date of the first examination.

Comparative Literature students must demonstrate a reading knowledge of a second language other than English prior to taking their Comprehensive Examinations. Reading knowledge may be demonstrated by coursework in the specific language program or by written examination, to be determined with the Major Professor.

**Additional Requirements**

**Transfer of Credits**

Any course submitted for transfer must be no more than five years old at the time of the student’s admission to the MALLT Program, must have been taken at the graduate level in a recognized institution, and must have been completed with a grade of B or better. Since Graduate School regulations allow the transfer of only 12 non-degree graduate credits to a master’s program, students are advised to apply for degree candidacy in the MALLT program before completion of 12 credits of coursework.

**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations.

The Coordinating Committee refers each incoming student to a temporary advisor, normally the Graduate Advisor in the student’s chosen concentration, as stated in the application. The Graduate Advisor assists in assessing the student’s competencies, interests, and future academic or professional needs. Normally, the Graduate Advisor recommends a Major Professor after his/her initial meeting with the student.

The Major Professor and the student establish a plan of study by the end of the student’s first semester of graduate work. The plan will be reviewed by the Major Professor and the student after the successful completion of 12 credits and the removal of any deficiencies that may have been assessed at admission. At the time of the review, the student may request another Major Professor in the event that his/her programmatic needs have been modified or altered. Subsequent minor changes must be approved by the Major Professor.

The Major Professor evaluates and updates the student’s progress after completion of every six (6) credits or every semester of subsequent work. The student may not register for any courses without this advisor’s prior approval.

**Time Limit**

The student must complete all degree requirements within five years of initial enrollment.

**Latin American and Caribbean Studies**

UWM graduates in the 21st century will participate in a globalized economy with corresponding internationalization of the mass media, education and the arts. As the United States draws even closer to its neighbors in the Americas, students in the Latin American and Caribbean Studies Undergraduate Certificate Program (LACS) will be especially well prepared for this complex and ever-changing world.

**Programs**

- Latin American and Caribbean Studies, Undergraduate Certificate (p. 1167)

**Latin American and Caribbean Studies, Undergraduate Certificate**

Like a departmental minor, the LACS undergraduate certificate offers a specific academic focus but differs by being interdisciplinary, allowing students to combine related courses in different disciplines to explore common themes. Students who earn a certificate demonstrate their intellectual commitment to a subject and their competence in scholarly areas, which can prove valuable at the graduate level or in the workplace.

Numerous study abroad opportunities are available to students in any of these programs, including short-term and longer-length. Most students start planning their study abroad experience early in sophomore year for trips that take place in junior year. Popular destinations include Mexico, Cuba, Brazil, Peru, Ecuador, Argentina, and Chile.

**Eligibility**

The Certificate in Latin American and Caribbean Studies is open to all students seeking a bachelor’s degree from UWM, to those who previously received a bachelor’s degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university

degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the certificate program are awarded the certificate at the time of graduation. Students who already possess the bachelor's degree and non-degree students receive the certificate upon completion of the program requirements.

## Requirements

You are strongly advised to consult both the Latin American and Caribbean Studies advisor and your L&S advisor to ensure you stay on track towards a degree.

Proficiency in a language (other than English) widely spoken in Latin America or the Caribbean is required. Spanish, Portuguese, and French are already approved to satisfy this requirement, and the Center for Latin American and Caribbean Studies will determine additional languages that satisfy the certificate. This requirement may be fulfilled by either:

1. successful completion (with a grade of C or above) of any upper-level (numbered 300 or above) course in the target language; or
2. successful completion of a language proficiency examination. Exceptions to this requirement must be approved by the LACS Certificate Committee.

Students must complete 18 credits in Latin American and Caribbean content courses, 9 of which must be at the 300 level or above and in residence at UWM. The 18 credits include one required course, LACS 101. Students must select courses from at least three curricular areas, including LACS 101. No more than 9 credits in any one curricular area may be counted towards the certificate program. Students may count up to 3 credits of a related independent study and up to 3 credits of a related internship. In addition to any Latin American content courses taken in a semester-length, UWM-approved study abroad program in Latin America or the Caribbean, an additional three credits for participating also may be counted, if courses are taken within an immersion setting (as determined by the Center for Latin American and Caribbean Studies). A 2.00 GPA or better must be achieved in all UWM coursework and in all certificate credits.

Courses that meet the certificate requirements include, but are not limited to, those in the following list. For the most current list of Latin American and Caribbean content courses, see the Center for Latin American and Caribbean Studies (<http://uwm.edu/clacs/>).

## African and African Diaspora Studies

Code	Title	Credits
AFRIC 205	The Poetry of African, African-American, and Caribbean Writers	3
AFRIC 299	Ad Hoc: (Sex in the Caribbean)	1-6
AFRIC 311	African Religious Thought and Social Organizations	3
AFRIC 320	Black Cultures in Latin America and the Caribbean	3
AFRIC 334	Survey of Black American and Black Brazilian Societies	3
AFRIC 411	Change in African-American Communities	3
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	3

AFRIC 418	Race, Class, and Gender in Latin America and the Caribbean	3
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## Anthropology

Code	Title	Credits
ANTHRO 214	Ancient Civilizations of Latin America	3
ANTHRO 225	The Aztec Empire	3
ANTHRO 309	Archaeology of Central and South America	3
ANTHRO 310	Archaeology of Middle America	3
ANTHRO 311	The World of the Ancient Maya	3
ANTHRO 431	Cities and Culture	3

## Art History

Code	Title	Credits
ARTHIST 104	African, New World and Oceanic Art and Architecture	3
ARTHIST 251	Introduction to the Art and Architecture of Latin America	3
ARTHIST 343	Art and Culture of Spain and Latin America, 1500-1750	3
ARTHIST 367	Latin American Modernisms	3
ARTHIST 372	Art of the Inca and their Ancestors	3
ARTHIST 373	Art of Ancient Mexico and Central America	3
ARTHIST 375	Art of the Aztec Empire	3
ARTHIST 474	Maya Art	3
ARTHIST 499	Ad Hoc: (Modern Art of Latin America)	1-6

## Atmospheric Sciences

Code	Title	Credits
ATM SCI 297	Study Abroad: (Mexico - Air Pollution and Ancient Cultures)	1-12
ATM SCI 497	Study Abroad: (Mexico - Air Pollution and Ancient Cultures)	1-12

## Biological Sciences

Code	Title	Credits
BIO SCI 297	Study Abroad: (Ecology of Tropical Streams in Costa Rica)	1-12
BIO SCI 497	Study Abroad: (Ecology of Tropical Streams in Costa Rica)	1-12

## Comparative Literature

Code	Title	Credits
COMPLIT 135	Experiencing Literature in the 21st Century: (Women and War in Latin America and the Caribbean)	3
COMPLIT 230	Literature and Society: (Cowboys, Gauchos, and Other Narratives of the Frontier)	3
COMPLIT 232	Literature and Politics: (Gender and the Historical Novel or Women and War)	3
COMPLIT 350	Topics in Comparative Literature: (Literary and Artistic Perspectives on Prostitution)	3



COMPLIT 360	Seminar in Literature and Cultural Experience: (Narratives in Torture)	3
COMPLIT 365	Literatures and Cultures of the Americas:	3

### Conservation and Environmental Science

Code	Title	Credits
CES 297	Study Abroad: (Ecology of Tropical Streams in Costa Rica)	1-12
CES 497	Study Abroad: (Ecology of Tropical Streams in Costa Rica)	1-12

### Dance

Code	Title	Credits
DANCE 370	World Movement Traditions: (Argentinian Tango)	2-3

### Economics

Code	Title	Credits
ECON 193	First-Year Seminar: (Prosperity, Poverty, and Economic Justice)	3
ECON 353	Economic Development	3

### English

Code	Title	Credits
ENGLISH 297	Study Abroad: ("Mexico and Cuba - Comparative Globalization" subtitle)	1-12
ENGLISH 316	World Cinema:	3
	Subtitles:	
	Caribbean Cinema	
	Latin American Cinema	
	Mexican Cinema	
	Latina and Latin American Women Directors	
	Mexican and Cuban Cinema	
ENGLISH 320	Studies in Film and Television Authorship: (Cuban and Mexican Filmmakers)	3
ENGLISH 463	Writers in African-American Literature: (Caribbean Literature)	3
ENGLISH 497	Study Abroad: (Mexico and Cuba - Comparative Globalization)	1-12
ENGLISH 625	Seminar in Literary History: (Caribbean Literary History)	3

### Film Studies

Code	Title	Credits
FILMSTD 316	World Cinema:	3
	Subtitles:	
	Caribbean Cinema	
	Latin American Cinema	
	Latina and Latin American Women Directors	
	Mexican Cinema	
	Mexican and Cuban Cinema	

### French

Code	Title	Credits
FRENCH 203	Third-Semester French	3
FRENCH 204	Fourth-Semester French	3
FRENCH 210	French Immersion: Intermediate	1-2
FRENCH 303	Conversation and Composition: Intermediate Level	3
FRENCH 325	Intensive Grammar and Usage	3
FRENCH 392	Phonetics	3
FRENCH 410	French Immersion: Advanced	1-2
FRENCH 427	Advanced Written Expression	3

### Geography

Code	Title	Credits
GEOG 297	Study Abroad: (Urban Environmental Changes in Guatemala)	1-12
GEOG 497	Study Abroad: (Urban Environmental Changes in Guatemala)	1-12

### History

Code	Title	Credits
HIST 180	Latin American Society and Culture	3
HIST 393	History of Mexico	3
HIST 400	Topics in Latin American and Caribbean History:	3

### Latin American and Caribbean Studies

Code	Title	Credits
LACS 101	Introduction to Latin American and Caribbean Studies	3

### Latin American, Caribbean, and U.S. Latinx Studies

Code	Title	Credits
LACUSL 200	Special Topics in Latin American, Caribbean, and U.S. Latinx Studies:	3
LACUSL 201	Latin American, Caribbean, and U.S. Latinx Arts and Culture:	3
LACUSL 297	Study Abroad:	1-12
LACUSL 300	Advanced Topics in Latin American, Caribbean, and U.S. Latinx Studies:	3
LACUSL/THEATRE 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	3
LACUSL 497	Study Abroad:	1-12

### Political Science

Code	Title	Credits
POL SCI 325	Latin American Politics	3
POL SCI 326	Brazilian Politics and Society	3
POL SCI 346	U.S.-Latin American Relations	3
POL SCI 368	Gender and Politics in Developing Nations	3
POL SCI 374	Health, Wealth, and Democracy	3

## Portuguese

Code	Title	Credits
PORTUGS 103	First-Semester Portuguese	4
PORTUGS 104	Second-Semester Portuguese	4
PORTUGS 110	Accelerated Portuguese I	3
PORTUGS 203	Third-Semester Portuguese	3
PORTUGS 204	Fourth-Semester Portuguese	3
PORTUGS 225	Understanding Brazil:	3
PORTUGS 297	Study Abroad: (The African Presence in Brazil)	1-12
PORTUGS 299	Ad Hoc: (Accelerated Portuguese)	1-6
PORTUGS 310	Advanced Composition and Conversation	3
PORTUGS 313	Advanced Speaking and Listening	3
PORTUGS 360	Luso-Brazilian Culture:	3
PORTUGS 497	Study Abroad: (The African Presence in Brazil)	1-12
PORTUGS 499	Ad Hoc:	1-6
PORTUGS 699	Independent Reading	1-3

## Spanish

Code	Title	Credits
SPANISH 203	Third-Semester Spanish	3
SPANISH 204	Fourth-Semester Spanish	3
SPANISH 308	Advanced Writing and Reading	3
SPANISH 318	Advanced Speaking and Listening	3
SPANISH 319	Advanced Speaking and Listening for Heritage Speakers	3
SPANISH 332	Using Spanish in the Business World	3
SPANISH 333	Advanced Spanish Grammar	3
SPANISH 338	Spanish for Health Professionals	3
SPANISH 341	Introduction to Hispanic Linguistics	3
SPANISH 342	Business and Legal Spanish	3
SPANISH 348	Introduction to Translation: English to Spanish	3
SPANISH 350	Introduction to Literary Analysis	3
SPANISH 388	Health Issues in the Hispanic World	3

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Susana Antunes	Assistant Professor (Portuguese)	PhD	University of Massachusetts-Amherst		
Nancy Bird-Soto	Associate Professor (Spanish and Portuguese)	PhD	University of Wisconsin-Madison		
Gilberto Blasini	Associate Professor (Film Studies)	PhD	UCLA		
Brenda Cárdenas	Associate Professor (English)	PhD	University of Michigan-Ann Arbor		
Sarah Davies Cordova	Professor (French, Italian, and Comparative Literature)	PhD	University of California, Los Angeles		
Christopher Davis-Benavides	Professor (Art and Design)	MFA	University of Wisconsin-Madison		

SPANISH 391	Social and Historical Issues in the Hispanic World: (Latin America - Past and Present)	3
SPANISH 470	Survey of Hispanic Literature and Civilization	3
SPANISH 472	Survey of Spanish-American Literature and Civilization	3
SPANISH 491	Topics in Hispanic Culture:	3
	Subtitles:	
	The Spanish Renaissance and its Cultures, 16th and 17th Centuries	
	Exotic Stories from the Hispanic World - The Pleasure of Words	
SPANISH 507	Seminar in Spanish-American Literature:	3
SPANISH 541	History of the Spanish Language	3

## Theatre

Code	Title	Credits
THEATRE/LACUSL 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	3

## Urban Planning

Code	Title	Credits
URBPLAN 692	Special Topics in Urban Planning: (Latino Cities)	1-3

## Latin American, Caribbean, and U.S. Latinx Studies

Uniquely UWM, Latin American, Caribbean, and U.S. Latinx Studies integrates the study of peoples and cultures of Latin America and the Caribbean with the study of Latinx communities in the United States. Most other programs focus on one or the other. Alumni work stateside or abroad in health services, education, nonprofits, business, and government. An accelerated program leads to both the BA and a master's in translation in five years.

## Programs

- Latin American, Caribbean, and U.S Latinx Studies, BA (p. 1171)

Raoul Deal	Senior Lecturer (Cultures and Communities)	MFA	Universidad Nacional Autónoma de México
César Ferreira	Professor (Spanish and Portuguese)	PhD	University of Texas at Austin
Simone Ferro	Professor (Dance)	MFA	University of Iowa
Jean Hudson	Associate Professor (Anthropology)	PhD	University of California, Santa Barbara
David Pacífico	Assistant Professor (Art History)	PhD	University of Chicago
Kristin Pitt	Associate Professor (French, Italian, and Comparative Literature)	PhD	University of Wisconsin-Madison
Sandra Pucci	Associate Professor (Linguistics)	PhD	University of Southern California
Joseph Rodríguez	Associate Professor (History)	PhD	University of California, Berkeley
Paru Shah	Associate Professor (Political Science and Latino Studies)	PhD	Rice University
Natasha Borges Sugiyama	Associate Professor (Political Science)	PhD	University of Texas
Erin Winkler	Associate Professor (Africology)	PhD	University of California, Berkeley

## Latin American, Caribbean, and U.S Latinx Studies, BA

UWM students interested in pursuing advanced knowledge about the varied cultures, histories, languages, and origins that are included within Latinx populations have three different programs to choose from, including a major and two different certificates.

UWM students in the Latin American, Caribbean, and U.S. Latinx Studies (LACUSL) major learn about the many different histories, cultures, and modern issues of Latinx peoples from all three regions - Latin America, the Caribbean, and the United States. It is among a small handful of programs nationwide to explore both Latinx communities in the U.S. as well as those in Latin America and the Caribbean; most programs focus on one or the other. Coursework spans several departments, including history, sociology, the arts, political science, anthropology, languages and literature, giving students many different lenses through which to look.

Many students choose this major because they intend to work with the Latinx population in some way. They may be going into health services, education, manufacturing, business, nonprofit work, social services, trade, or government work. Regardless of industry, they understand that the impact of globalization is growing and they recognize the increasing importance of Latin American countries and Latinx communities in the U.S. as political and economic forces.

Students more interested in the experience of Latinx communities within the United States might find our certificate in Latinx Studies well-suited to their personal and professional goals. A certificate is similar to a minor in terms of number of credits, but like the interdisciplinary LACUSL major mentioned above, it draws on classes from many different subject areas. Students can expect to take classes from history, English, Spanish, educational policy, and sociology.

Students more interested in the regions of Latin America and the Caribbean should explore the certificate in Latin American and Caribbean Studies in more detail.

Both certificates are excellent complements to other majors both within the College of Letters & Science as well as professional degrees such as business, education, nursing or health sciences.

Numerous study abroad (<https://uwm.edu/cie/study-abroad/>) opportunities are available to students in any of these programs, including short-term and longer-length. Most students start planning their study abroad experience early in sophomore year for trips that take place in junior year. Popular destinations include Mexico, Cuba, Brazil, Peru, Ecuador, Argentina, and Chile.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		

ENGLISH 102 College Writing and Research (or equivalent)

*Part B*

Course designated as OWC-B; may be completed through a major-specific course requirement

**Quantitative Literacy**

*Part A*

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

*Part B*

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	

POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is *NOT* the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. \*

#### Natural Sciences

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. \*

#### Cultural Diversity

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\*

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Major Requirements

Students are required to complete a minimum of 33 credits in the major, at least 15 of which must be taken at the advanced level (300 and above) in residence at UWM. At least 9 of those credits must represent at least three curricular areas (i.e. one 3-credit course each in three different curricular areas) with no more than 18 credits of approved courses in a singular curricular area. Students are required to complete an e-portfolio for assessment purposes. Students will be assisted in the creation of an e-portfolio, and can ask the LACUSL advisor for direction to an appropriate faculty member.

Study of a language widely spoken in Latin America or the Caribbean is strongly encouraged, but not required. Students are strongly encouraged to pursue a combination of LAC area studies and U.S. Latinx-focused courses.

The College requires that all students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

With approval of program coordinator, a relevant course not currently listed below may be substituted.

The following are required:

Code	Title	Credits
<b>Core</b>		
<i>Introductory courses</i>		
LACS 101	Introduction to Latin American and Caribbean Studies	3
LATINX 101	Introduction to Latino Studies	3
<i>Research Requirement</i>		
LACUSL 680	LACUSL Senior Research Project	3
or one course accepted for the LACUSL major and satisfying the L&S research requirement from table below <sup>1</sup>		
<b>Electives</b>		
Select 24 credits from table of LACUSL-approved Electives below		24
<b>Total Credits</b>		<b>33</b>

<sup>1</sup> LACUSL 680 (<https://catalog.uwm.edu/search/?P=LACUSL%20680>) is the recommended research requirement course. In semesters when LACUSL 680 (<https://catalog.uwm.edu/search/?P=LACUSL%20680>) is not offered, the student may substitute an existing course from the table below, provided that the major research project undertaken as part of that course has a distinctly LACUSL topic. The student must inform the instructor they wish to fulfill the research requirement in the course.

If neither of these options is viable, students also may complete the research requirement by taking three credits of LACUSL 699 (<https://catalog.uwm.edu/search/?P=LACUSL%20699>), with an appropriate faculty member from the LACUSL associated faculty. L&S guidelines require that students will:

1. develop a research question, statement, or problem;
2. evaluate research in the field of study and integrate it with their findings; and
3. disseminate their findings orally or in writing.

### Courses accepted for the LACUSL major and the L&S research requirement

Code	Title	Credits
AFRIC 320	Black Cultures in Latin America and the Caribbean	3
AFRIC 344	Global Black Social Movements	3
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	3
AFRIC 418	Race, Class, and Gender in Latin America and the Caribbean	3
POL SCI 325	Latin American Politics	3
POL SCI 326	Brazilian Politics and Society	3
POL SCI 346	U.S.-Latin American Relations	3
SPANISH 507	Seminar in Spanish-American Literature:	3

### Electives

Electives may be selected from the courses listed below. At least three different departmental curricular codes must be represented among the electives, with no more than 18 credits in any one curricular area. A maximum of 3 credits in an internship (LACS 289, LACS 489, LACUSL 289, LACUSL 489, LATINX 289 OR LATINX 489) may count as an elective for the major.

With approval of program coordinator, a relevant course not listed below may be substituted.

Code	Title	Credits
<b>Electives approved for the LACUSL major</b>		
AFRIC 205	The Poetry of African, African-American, and Caribbean Writers	3
AFRIC 311	African Religious Thought and Social Organizations	3
AFRIC 320	Black Cultures in Latin America and the Caribbean	3
AFRIC 334	Survey of Black American and Black Brazilian Societies	3
AFRIC 344	Global Black Social Movements	3
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	3
AFRIC 418	Race, Class, and Gender in Latin America and the Caribbean	3
AIS 225	The Aztec Empire	3
AIS 310	Archaeology of Middle America	3
AIS 311	The World of the Ancient Maya	3
ANTHRO 214	Ancient Civilizations of Latin America	3
ANTHRO 225	The Aztec Empire	3
ANTHRO 309	Archaeology of Central and South America	3
ANTHRO 310	Archaeology of Middle America	3
ANTHRO 311	The World of the Ancient Maya	3
ANTHRO 497	Study Abroad: <sup>2</sup>	1-12
ANTHRO 570	Issues in Bilingualism	3
ARTHIST 104	African, New World and Oceanic Art and Architecture	3
ARTHIST 251	Introduction to the Art and Architecture of Latin America	3
ARTHIST 270	Pre-Columbian Art, Myth, and Legacy	3
ARTHIST 343	Art and Culture of Spain and Latin America, 1500-1750	3
ARTHIST 372	Art of the Inca and their Ancestors	3
ARTHIST 373	Art of Ancient Mexico and Central America	3
ARTHIST 375	Art of the Aztec Empire	3
ARTHIST 474	Maya Art	3
ATM SCI 297	Study Abroad: <sup>2</sup>	1-12
ATM SCI 497	Study Abroad: <sup>2</sup>	1-12
BIO SCI 297	Study Abroad: <sup>2</sup>	1-12
BIO SCI 497	Study Abroad: <sup>2</sup>	1-12
COMMUN 350	Intercultural Communication	3
COMMUN 450	Cross-Cultural Communication	3

COMMUN 550	International and Global Communication	3	LACUSL 201	Latin American, Caribbean, and U.S. Latinx Arts and Culture:	3
COMPLIT 365	Literatures and Cultures of the Americas:	3	LACUSL 289	Internship-Latin American, Caribbean, & U.S. Latinx Studies, Lower Division	1-3
CURRINS 542	History and Politics of Second Language Education	3	LACUSL 297	Study Abroad:	1-12
CURRINS 550	Using Children's Literature to Explore Latin Am/Latino Cultural Heritage	3	LACUSL 300	Advanced Topics in Latin American, Caribbean, and U.S. Latinx Studies:	3
DANCE 122	African Dance & Diaspora Technique I	2-3	LACUSL/THEATRE 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	3
DANCE 414	Dance Composition III	2-3	LACUSL 489	Internship in Latin American, Caribbean, and US Latinx Studies, Upper Level	1-3
ECON 353	Economic Development	3	LACUSL 497	Study Abroad:	1-12
ED POL 212	Educational Issues in Spanish Speaking Communities	3	LATINX 267	The History of Latinos in the United States	3
ED POL 460	The Chicano Experience	3	LATINX 289	Internship in Latino Studies, Lower Division	1-6
ED POL 560	Education and Hispanics	3	LATINX 301	Advanced Topics in U.S. Latino Studies:	3
ENGLISH 279	Introduction to U.S. Latino/a Literature:	3	LATINX 323	Perspectives on Latino Communities	3
ENGLISH 316	World Cinema:	3	LATINX 388	Latino Politics	3
ENGLISH 374	Survey of U.S. Latino/a Literature	3	LATINX 489	Internship in Latino Studies, Upper Division	1-6
ENGLISH 394	Theories of Digital Culture:	3	LATINX 523	Studies in U.S. Latino/a Literature:	3
ENGLISH 404	Language, Power, and Identity	3	LGBT/ETHNIC 275	Queer Migrations	3
ENGLISH 523	Studies in U.S. Latino/a Literature:	3	LINGUIS 420	Introduction to Second Language Acquisition	3
ETHNIC 102	Transnational Migrations: People on the Move	3	LINGUIS 570	Issues in Bilingualism	3
ETHNIC 200	Racial Minorities in the United States	3	POL SCI 215	Ethnicity, Religion and Race in American Politics	3
ETHNIC 245	Indians, Artists, and Conquistadores: The U.S. Southwest	3	POL SCI 325	Latin American Politics	3
ETHNIC 255	Migration and Gender: Starbucks, Sex Trafficking, and Nannies	3	POL SCI 326	Brazilian Politics and Society	3
ETHNIC/LGBT 275	Queer Migrations	3	POL SCI 346	U.S.-Latin American Relations	3
ETHNIC 375	Global Violence, Disease, and Death	3	POL SCI 368	Gender and Politics in Developing Nations	3
FRENCH 303	Conversation and Composition: Intermediate Level	3	POL SCI 374	Health, Wealth, and Democracy	3
FRENCH 325	Intensive Grammar and Usage	3	POL SCI 388	Latino Politics	3
FRENCH 392	Phonetics	3	POL SCI 415	The Politics of Race, Ethnicity and Immigration	3
FRENCH 410	French Immersion: Advanced	1-2	PORTUGS 225	Understanding Brazil:	3
FRENCH 427	Advanced Written Expression	3	PORTUGS 310	Advanced Composition and Conversation	3
HIST 180	Latin American Society and Culture	3	PORTUGS 313	Advanced Speaking and Listening	3
HIST 267	The History of Latinos in the United States	3	PORTUGS 360	Luso-Brazilian Culture:	3
HIST 290	Topics in Global History:	3	PORTUGS 699	Independent Reading	1-3
HIST 372	Topics in Global History:	3	SOCIO 224	Race and Ethnicity in the United States	3
HIST 393	History of Mexico	3	SOCIO 323	Perspectives on Latino Communities	3
HIST 400	Topics in Latin American and Caribbean History:	3	SOCIO 324	Race and Ethnicity in Global Contexts	3
HIST 404	Topics in American History:	3	SPANISH 308	Advanced Writing and Reading	3
HIST 436	Immigrant America Since 1880	3	SPANISH 318	Advanced Speaking and Listening	3
JAMS 450	Race and Ethnicity in the Media	3	SPANISH 319	Advanced Speaking and Listening for Heritage Speakers	3
LACS 289	Internship in Latin American/Caribbean Studies, Lower Division	1-3	SPANISH 332	Using Spanish in the Business World	3
LACS 489	Internship in Latin American/Caribbean Studies, Upper Division	1-3	SPANISH 333	Advanced Spanish Grammar	3
LACUSL 200	Special Topics in Latin American, Caribbean, and U.S. Latinx Studies:	3	SPANISH 338	Spanish for Health Professionals	3

SPANISH 341	Introduction to Hispanic Linguistics	3
SPANISH 342	Business and Legal Spanish	3
SPANISH 348	Introduction to Translation: English to Spanish	3
SPANISH 350	Introduction to Literary Analysis	3
SPANISH 371	Introduction to Latino Literature in English	3
SPANISH 388	Health Issues in the Hispanic World	3
SPANISH 470	Survey of Hispanic Literature and Civilization	3
SPANISH 472	Survey of Spanish-American Literature and Civilization	3
SPANISH 507	Seminar in Spanish-American Literature:	3
SPANISH 541	History of the Spanish Language	3
THEATRE/LACUSL 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre	3

<sup>2</sup> Study abroad must be in a relevant context, for example, in a Latin American country.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Latinx Studies

The Latinx Studies Undergraduate Certificate Program is designed for students who have an interest in Latinx studies, regardless of major or college affiliation. It utilizes an interdisciplinary approach to examining the experiences, cultures, and social conditions of Latinx communities in the United States.

## Programs

- Latinx Studies, Undergraduate Certificate (p. 1176)

## Latinx Studies, Undergraduate Certificate

Latinx communities are the fastest growing minority population in the United States, numbering between 50 and 60 million today. Our interdisciplinary program allows students in many majors to complete their existing studies while also deepening knowledge about the experience of the Latin American and Caribbean diaspora in the U.S.



With demographic trends and the need to work with diverse groups, employers will appreciate your specialized training in Latinx Studies. The certificate complements academic fields in Letters & Science (Spanish, Sociology, Anthropology, History, and Political Science among others) as well as professional fields such as Business, Criminal Justice, Health Science, Nursing, and Social Welfare. Latinx Studies courses also count towards the major in Latin American, Caribbean, and U.S. Latinx Studies.

Students will find answers to these questions:

- Who are Latinx people?
- Why has the U.S. Latinx population grown so rapidly in recent years? Which groups are growing the fastest?
- How have immigration policies affected population growth and change?
- How do Latinx people engage in politics of their communities, states, and the nation?
- Why has their growth spurred so much electoral attention?
- What challenges do Latinx communities face in terms of racism, sexism, and discrimination?
- What contributions have Latinx people made to US art, music, and literature?
- What is the history of Mexicans, Puerto Ricans, and Cubans in the U.S. from the 1600s to the present?

A certificate in Latinx Studies is similar to a minor, in that it demonstrates you've achieved substantial knowledge in this interdisciplinary area of study.

The mission of the multidisciplinary Certificate in Latinx Studies is twofold:

1. To enable students to understand and evaluate the impact of Latinx people on the history, culture, politics, and economy of the United States, and
2. To foster the development of new, critical approaches that enable students to transform their world views and apply sound principles in their professional and personal interactions.

## Eligibility

The Undergraduate Certificate Program in Latinx Studies is open to any University of Wisconsin-Milwaukee students seeking a bachelor's degree from UWM, to those who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the certificate program are awarded the certificate at the time of graduation. Students who already possess the bachelor's degree and non-degree students receive the certificate upon completion of the program requirements.

## Requirements

To obtain the certificate, students must complete 18 credits in approved Latinx courses, including 9 credits at the 300 level and above in residence at UWM, with a minimum grade point average of 2.00. Students must select courses from at least three curricular areas, including LATINX 101. No more than 9 credits in a single curricular area may count toward the certificate. Students may count up to 3 credits of a related independent

study and up to 3 credits of a related internship. For additional program information, contact the Latinx Studies Coordinator (Center for Latin American and Caribbean Studies (<https://uwm.edu/clacs/>)).

Code	Title	Credits
<b>Required</b>		
LATINX 101	Introduction to Latino Studies	3
<b>Electives</b>		
Select 15 credits from the following: <sup>1</sup>		15
ANTHRO 313	Archaeology of the American Southwest	
ANTHRO 431	Cities and Culture	
ANTHRO 570	Issues in Bilingualism	
COMMUN 350	Intercultural Communication	
COMMUN 450	Cross-Cultural Communication	
CURRINS 542	History and Politics of Second Language Education	
CURRINS 543	Developing Biliteracy	
CURRINS 550	Using Children's Literature to Explore Latin Am/Latino Cultural Heritage	
DANCE 272	Salsa, Merengue, and Bachata I	
ECON 193	First-Year Seminar: (subtitle: Prosperity, Poverty, and Economic Justice)	
ED POL 212	Educational Issues in Spanish Speaking Communities	
ED POL 460	The Chicano Experience	
ED POL 560	Education and Hispanics	
ENGLISH 277	Introduction to Ethnic Minority Literature:	
ENGLISH 279	Introduction to U.S. Latino/a Literature:	
ENGLISH/FILMSTD 316	World Cinema: (Latina and Latin American Women Directors)	
ENGLISH 373	Survey of Ethnic Minority Literature	
ENGLISH 374	Survey of U.S. Latino/a Literature	
ENGLISH 394	Theories of Digital Culture: (Latino and Latin American Popular Culture)	
ENGLISH 404	Language, Power, and Identity	
ENGLISH 523	Studies in U.S. Latino/a Literature:	
ETHNIC 102	Transnational Migrations: People on the Move	
ETHNIC 250	Selected Topics in Ethnic Studies: (Women as Migrant Workers)	
ETHNIC 255	Migration and Gender: Starbucks, Sex Trafficking, and Nannies	
ETHNIC 275	Queer Migrations	
ETHNIC 325	Gender, Race, and Ethnicity in Milwaukee:	
HIST 200	Historical Roots of Contemporary Issues: (U.S.-Mexico Borderlands)	
HIST 267	The History of Latinos in the United States	
HIST 372	Topics in Global History: (History of Media: Latin American and U.S. Latino Worlds)	
HIST 436	Immigrant America Since 1880	

JAMS 450	Race and Ethnicity in the Media
LACUSL 200	Special Topics in Latin American, Caribbean, and U.S. Latinx Studies:
LACUSL 201	Latin American, Caribbean, and U.S. Latinx Arts and Culture:
LACUSL 300	Advanced Topics in Latin American, Caribbean, and U.S. Latinx Studies:
LACUSL/THEATRE 324	Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre
LACUSL 489	Internship in Latin American, Caribbean, and US Latinx Studies, Upper Level
LACUSL 680	LACUSL Senior Research Project
LATINX 199	Independent Study
LATINX 201	Special Topics in U.S. Latino Studies:
LATINX 267	The History of Latinos in the United States
LATINX 289	Internship in Latino Studies, Lower Division
LATINX 301	Advanced Topics in U.S. Latino Studies:
LATINX 323	Perspectives on Latino Communities
LATINX 374	Survey of U.S. Latino/a Literature
LATINX/POL SCI 388	Latino Politics
LATINX 489	Internship in Latino Studies, Upper Division
LATINX 523	Studies in U.S. Latino/a Literature:
LATINX 699	Advanced Independent Study
LGBT 275	Queer Migrations
LINGUIS 570	Issues in Bilingualism
PH 319	Introduction to Health Disparities
POL SCI 215	Ethnicity, Religion and Race in American Politics
POL SCI 415	The Politics of Race, Ethnicity and Immigration
PSYCH 578	Psychology of Race, Ethnicity, and Health
SOCIOL 224	Race and Ethnicity in the United States
SOCIOL 323	Perspectives on Latino Communities
SPANISH 203	Third-Semester Spanish
SPANISH 204	Fourth-Semester Spanish
SPANISH 308	Advanced Writing and Reading
SPANISH 318	Advanced Speaking and Listening
SPANISH 319	Advanced Speaking and Listening for Heritage Speakers
SPANISH 332	Using Spanish in the Business World
SPANISH 333	Advanced Spanish Grammar
SPANISH 338	Spanish for Health Professionals
SPANISH 341	Introduction to Hispanic Linguistics
SPANISH 342	Business and Legal Spanish
SPANISH 348	Introduction to Translation: English to Spanish
SPANISH 350	Introduction to Literary Analysis
SPANISH 371	Introduction to Latino Literature in English

SPANISH 373	Topics in Latino Literature in English:
SPANISH 388	Health Issues in the Hispanic World
URBPLAN 692	Special Topics in Urban Planning: (subtitle: Latino Cities)

**Total Credits** **18**

<sup>1</sup> Must include 9 credits numbered 300 and above. Consult the Certificate coordinator for approval to count additional appropriate courses with at least 25% Latinx content not listed here.

## Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies

Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies investigates the historical and contemporary experiences of people traditionally neglected in scholarship and courses. It explores questions about sexuality as well as identity, community, representation, diversity, assimilation, and discrimination that are both academically and socially significant. Work in this innovative field includes material and methods from many disciplines: English and foreign languages, health professions, anthropology, art history, biology, communications, economics, fine arts, history, music, nursing, political science, psychology, sociology, social welfare, and women's and gender studies.

### Programs

- Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Undergraduate Certificate (p. 1178)

## Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Undergraduate Certificate

The Undergraduate Certificate in Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies explores questions about sexuality, identity, gender, community, representation, diversity, assimilation, and discrimination that are both academically and socially significant.

This certificate is designed for all students, regardless of major, who have an interest in learning more about the history and contemporary life of LGBT individuals. Students who earn the LGBT Studies certificate are prepared for careers that involve interaction with people of diverse backgrounds in areas such as business, education, healthcare, and law. Some graduates go on to work in social services or public affairs, promoting equality in legislation and policy.

Coursework in this program is interdisciplinary and includes materials and methods from many fields, including Africology, anthropology, communication, comparative literature, economics, English, ethnic studies, film studies, health sciences, history, linguistics, music, nursing, political science, psychology, social welfare, sociology, theatre, and women's and gender studies.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

## Eligibility

The LGBT Studies Undergraduate Certificate is designed for students majoring in any field who wish to complement their study of a discipline with an additional concentration in lesbian, gay, bisexual, and transgender studies. Any student in good standing at the University of Wisconsin-Milwaukee who is seeking a bachelor's degree or who previously received a bachelor's degree from UWM or any other accredited college or university is eligible to participate in the certificate program. The program also is open to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree students, individuals must meet regular University admission requirements.

## Requirements

The LGBT Studies Undergraduate Certificate requires completion of 18 credits in approved courses, with a minimum GPA of 2.00, as follows:

Code	Title	Credits
<b>Required</b>		
LGBT 200	Introduction to Lesbian, Gay, Bisexual, and Transgender Studies	3
WGS 301	Queer Theory	3
LGBT 599	Selected Topics in LGBT Studies:	3
<b>Electives</b>		
Select 9 credits		9
<b>Total Credits</b>		<b>18</b>

### Electives

Select 9 credits of approved LGBT Studies curricular area or cross-listed coursework, of which 3 credits must be in courses numbered 300 or above.

Students are limited to a maximum of 6 credits in independent study and no more than 9 credits from any one curricular area outside of LGBT Studies. At least half the credits must be taken in residence at UWM, and no courses may be taken on a credit/no credit basis.

Credits earned at other institutions in equivalent LGBT courses, as well as credits earned and approved through study abroad, are accepted in partial fulfillment of the requirements. Students must obtain the approval of the certificate program committee to apply more than nine credits from courses at other institutions to the program requirements.

### Approved Electives

The following courses are approved to count toward the LGBT Studies Certificate. Additional courses may be found each semester in the Schedule of Classes. In addition, students are encouraged to consult the Program Coordinator and to petition for the inclusion of relevant courses as appropriate.

Code	Title	Credits
AFRIC 344	Global Black Social Movements	3
AFRIC 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
AFRIC 418	Race, Class, and Gender in Latin America and the Caribbean	3
ANTHRO 102	Introduction to Anthropology: Culture and Society	3
ANTHRO 400	Human Sociobiology	3

ANTHRO 445	Psychological Anthropology	3
BMS 201	Sexually Transmitted Diseases and AIDS	3
BMS/COMSDIS/HCA/KIN/OCCTHPY/THERREC 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
BUS ADM 441	Diversity in Organizations	3
COMMUN 401	Communication in Marital and Family Relationships	3
COMMUN 402	Gender and Communication	3
COMMUN 410	Organizational Communication Technology	3
ECON 248	Economics of Discrimination	3
ENGLISH 248	Literature and Contemporary Life:	3
ENGLISH 295	Women and Film	3
ENGLISH 332	LGBTQ+ Literature:	3
ENGLISH 350	Global Jewish Film and Television: (Topic: Queer Jewish Film)	3
ENGLISH 629	Seminar in Literature and Sexuality:	3
ETHNIC 275	Queer Migrations	3
ETHNIC 360	Villainy, Sex, & Blood: Race, Gender & Ethnicity in Pop Culture	3
FILMSTD 669	Screening Sexuality:	3
HIST 141	Global History of the Family, Gender, and Sexuality	3
HIST 241	Women and Gender in Europe: 1350 to 1750	3
HIST 242	Women and Gender in Europe: 1750 to the Present	3
HIST 243	History of Women in American Society	3
HIST 373	Topics in Gender and History:	3
HIST 449	Popular Culture in America, 1800 to the Present	3
JAMS 111	Gender and the Media	3
KIN 351	Sociological Aspects of Health and Human Movement	3
LINGUIS 212	Language and Gender	3
NURS 101	Cultural Diversity in Health Care	3
NURS 262	Exploring Human Sexuality	3
PHILOS 235	Philosophical Aspects of Feminism	3
POL SCI 412	Constitutional Law: Civil Rights and Liberties	3
POL SCI 464	Sex, Gender, and the Law	3
POL SCI 471	Problems in Law Studies: (Law and Sexuality)	3
PSYCH 319	LGBTIQ Psychology	3
PSYCH 320	Psychology of Gender	3
SOC WRK 100	Introduction to Social Work	3
SOC WRK 250	Human Behavior and the Social Environment	3
SOC WRK 581	Youth Work Practice	3
SOC WRK 591	Special Topics: Social Welfare and Social Work:	3
SOC WRK 665	Cultural Diversity and Social Work	3
SOC WRK 791	Current Topics in Social Work:	3

SOCIOL 250	Sex and Gender	3
SOCIOL 255	Sociology of Sexuality	3
SOCIOL 260	Blood, Sex, Money, Power: Families and Intimate Relationships	3
SOCIOL 341	Sociology of Deviant Behavior	3
SOCIOL 444	Sociology of the Body	3
WGS 200	Introduction to Women's and Gender Studies: A Social Science Perspective	3
WGS 201	Introduction to Women's and Gender Studies: A Humanities Perspective	3
WGS 302	Gendered Bodies:	3
WGS 401	Global Feminisms	3
WGS 489	Internship in Women's and Gender Studies	1-3
WGS 500	Advanced Social Science Seminar in Women's and Gender Studies:	3
WGS 501	Advanced Humanities Seminar in Women's and Gender Studies:	3

## Linguistics

Linguistics inquires into the nature of human language. In modern times, research in linguistics has concentrated on the search for universal

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Roberta Corrigan	Professor	PhD			✓
Garry W. Davis	Professor	PhD	University of Michigan	✓	
Fred Eckman	Distinguished Professor Emeritus	PhD	Indiana University		✓
Nicholas Fleisher	Associate Professor	PhD	University of California, Berkeley	✓	
Gregory Iverson	Professor	PhD			✓
Lawrence Kuiper	Associate Professor	PhD	Michigan State University	✓	
Edith Moravcsik	Professor	PhD			✓
Hamid Ouali	Professor	PhD	University of Michigan	✓	
Hanyong Park	Associate Professor	PhD	Indiana University	✓	
Sandra Pucci	Associate Professor	PhD	University of Southern California	✓	
Anne Pycha	Associate Professor	PhD	University of California, Berkeley	✓	
Gabriel Rei-Doval	Associate Professor	PhD	University of Santiago Compostela	✓	
Glenn Starr	Visiting Assistant Professor	PhD	University of Wisconsin-Madison	✓	
Kathleen Wheatley	Associate Professor	PhD	University of Michigan	✓	
Jessica Wirth	Associate Professor	PhD			✓

## Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate

*Effective Fall 2023, admission to the TESOL certificate is suspended.*

UWM's TESOL certificate prepares students for a career teaching English to non-English speaking adults. TESOL is an internationally-recognized acronym that denotes the holder of the certificate has

properties of human languages in an effort to understand that unique characteristic of human beings, the faculty of language. Recognition of the importance of modern linguistic research continues to grow today, with research results now seen to have implications for numerous additional disciplines, including anthropology, computer science, education, ethnology, psychology, sociology, and speech pathology.

Many of the courses taught in the Linguistics Department form a required or recommended portion of the curricula of other academic programs.

## Programs

- Adult/University Level Teaching English to Speakers of Other Languages, Graduate Certificate (p. 1180)
- Adult/University Level Teaching English to Speakers of Other Languages, Undergraduate Certificate (p. 1182)
- Linguistics, BA (p. 1183)
- Linguistics, MA (p. 1186)
- Linguistics, Minor (p. 1188)
- Linguistics, PhD (p. 1188)
- Teaching of English to Speakers of Other Languages and Applied Linguistics, MA (p. 1190)

received specialized training in the methodologies of teaching English, second language acquisition, bilingualism, and multicultural awareness.

The use of English as a common language of communication has risen dramatically in the last few decades, and the demand for TESOL trained instructors is high in certain parts of the world. Asia, Central America, and South America are three particular hot spots where people have a strong desire learn English or improve their English language skills.

Students who love to travel often make a career out of traveling the globe, picking up jobs in various nations. Others stay closer to home and find similar positions in the U.S. teaching English to immigrants, visitors,

foreign students, or others who have not learned English as their first language. TESOL is a dynamic profession that combines innovation and creativity with interactions in culturally-diverse communities.

The Adult/University-Level TESOL (Teaching English to Speakers of Other Languages) Graduate Certificate Program is designed to meet the needs of graduate non-degree students or graduate students concurrently enrolled in a UWM master’s or PhD program. Requirements for this program are very similar to those for the undergraduate-level “Adult/University-Level TESOL Certificate Program” but is more rigorous and can be applied (concurrently or subsequently) to the Master of Arts program in Linguistics.

## Admission Requirements

*Effective Fall 2023, admission to the TESOL certificate is suspended.*

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.
- Submit the following materials to the TESOL Certificate Program Coordinator in the Department of Linguistics:
  - Adult/University-Level TESOL Graduate Certificate Program application form (available from the Linguistics Department office).
  - Transcripts of all college-level academic work, with evidence of a GPA of 2.75 or better.
  - A statement of purpose.
  - Two letters of recommendation from persons knowledgeable about the applicant’s recent academic and/or work experience.
  - Applicants who are not native speakers of English should also submit TOEFL scores of at least 550 (paper-based test) or 79 (internet-based test), or at least 6.5 on the IELTS exam, and 45 on the TSE, or an equivalent means of demonstrating proficiency.

### Eligibility and Admission

Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

## Credits and Courses

Students are required to complete the six courses (18 credits) plus teaching internship (3 credits) outlined below.

Code	Title	Credits
<b>Required</b>		
LINGUIS/MALLT 708	Proseminar in Linguistics	3
LINGUIS 810	Methodologies in English Language Teaching	3
LINGUIS 720	Introduction to Second Language Acquisition	3
LINGUIS 741	Introduction to TESOL Methods	3
LINGUIS 430G or ANTHRO 570G	Language and Society Issues in Bilingualism	3
<b>Electives</b>		
Select one of the following:		3
CURRINS 655G	Applied Educational Linguistics	
ENGLISH 404G	Language, Power, and Identity	
LINGUIS 715	First Language Acquisition	
LINGUIS 761	Introduction to Phonology	
LINGUIS 764	Introduction to Syntax	
LINGUIS 768	Language in its Various Forms:	
LINGUIS 770	Historical and Comparative Linguistics	
LINGUIS 861	Advanced Phonology	
LINGUIS 864	Advanced Syntax	
LINGUIS/ED PSY 748		
LINGUIS 806	Seminar in Linguistics: (Subtitle)	
<b>Teaching internship</b>		
LINGUIS 869	Practicum in Teaching ESL to Adult Learners	3
<b>Total Credits</b>		<b>21</b>

## Additional Requirements

### Transfer Credit

No more than 6 credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program. Students who have completed any of the required courses for undergraduate credit must substitute other courses at the graduate level, selected in consultation with the certificate program coordinator to fulfill the credit requirements.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the

degree. (Note: Students in PhD programs must still complete the minimum residency requirements)

- Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
  3. A course may count toward no more than one certificate and one degree.
  4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Adult/University Level Teaching English to Speakers of Other Languages, Undergraduate Certificate

*Effective Fall 2023, admission to the TESOL certificate is suspended.*

UWM's TESOL certificate prepares students for a career teaching English to non-English speaking adults. TESOL is an internationally-recognized acronym that denotes the holder of the certificate has received specialized training in the methodologies of teaching English, second language acquisition, bilingualism, and multicultural awareness.

The use of English as a common language of communication has risen dramatically in the last few decades, and the demand for TESOL trained instructors is high in certain parts of the world. Asia, Central America, and South America are three particular hot spots where people have a strong desire learn English or improve their English language skills.

Students who love to travel often make a career out of traveling the globe, picking up jobs in various nations. Others stay closer to home and find similar positions in the U.S. teaching English to immigrants, visitors, foreign students, or others who have not learned English as their first language. TESOL is a dynamic profession that combines innovation and creativity with interactions in culturally-diverse communities.

## Eligibility

The Adult/University-Level TESOL Undergraduate Certificate Program is designed to meet the needs of students who wish to teach English as a Second Language (ESL) to adults or university-level students abroad. The program is open to undergraduates with at least junior standing, to post-baccalaureate special students, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. Non-degree students must meet regular University admission requirements. Graduate students or post-baccalaureate non-degree students should pursue instead the "Adult/

University-Level TESOL Graduate Certificate." Training in the graduate certificate program is more rigorous, and some credits earned can be transferred to the Linguistics Department MA program.

Undergraduate students concurrently completing a bachelor's degree receive the certificate upon completion of their degree requirements; post-baccalaureate special students and non-degree students receive the certificate upon completion of the required coursework and internship.

*Effective Fall 2023, admission to the TESOL certificate is suspended.*

## Requirements

### Admission

Students who wish to apply to the program should submit the declaration of interest form (<https://uwm.edu/linguistics/tesol/undergraduate-certificate/certificate-application/>).

Requirements for admission include:

1. A current transcript, with evidence of a GPA of 2.50 or better;
2. A meeting with the Director of TESOL, to assess the student's interest and plan for completing the certificate.

Applicants who are not native speakers of English also should submit scores of least 550 on the TOEFL exam and 45 on the TSE.

The teaching practicum is completed at one of the institutions affiliated with the certificate program. The site of the internship may be chosen by the student, but it must be approved by the certificate program staff. The student is expected to complete between 60 and 80 hours of supervised teaching over a period of a semester. Students who previously have taken any of the required courses while enrolled as non-degree undergraduate students or students in other undergraduate programs at UWM may transfer the credits earned into the certificate program, so long as the courses have been taken within the last five years. Students who have taken comparable undergraduate-level courses at other institutions may be allowed to transfer in up to 6 credits of coursework, upon approval of the certificate program coordinator.

There is a time limit of three years from initial enrollment for completion of the certificate.

Students are required to complete the six courses (18 credits) plus teaching internship (3 credits) outlined below. All credits must be completed with a GPA of 3.0 or better.

Code	Title	Credits
<b>Required</b>		
LINGUIS 350	Introduction to Linguistics	3
LINGUIS 510	Methodologies in English Language Teaching	3
LINGUIS 420	Introduction to Second Language Acquisition	3
LINGUIS 441	Introduction to TESOL Methods	3
ANTHRO/LINGUIS 570 or LINGUIS 430	Issues in Bilingualism Language and Society	3
<b>Elective</b>		
Select one of the following:		3
CURRINS 655	Applied Educational Linguistics	
ENGLISH 404	Language, Power, and Identity	
LINGUIS 415	First Language Acquisition	

LINGUIS 461	Introduction to Phonology	
LINGUIS 464	Introduction to Syntax	
LINGUIS 468	Language in its Various Forms:	
LINGUIS 470	Historical/Comparative Linguistics	
LINGUIS 561	Advanced Phonology	
LINGUIS 564	Advanced Syntax	
LINGUIS 567	Materials and Curriculum for TESOL	
<b>Practicum</b>		
ENGLISH/LINGUIS 569	Practicum in Teaching ESL to Adult Learners	3
<b>Total Credits</b>		<b>21</b>

## Linguistics, BA

Linguistics is the scientific study of language. Students of linguistics do not necessarily seek fluency in a second or third language. Instead, they study the components that make up any given language - the syntax, the grammar, the regional differences, the slang, the pronunciations, the symbols, the changes over time, how people learn a language, and more.

At UWM, Linguistics students can opt for a broad linguistics major which will touch on all aspects of language development and learning. Or, students can choose an applied linguistics major which will focus more on using the principles of linguistics in a business setting such as in the classroom to help students learn a second language, in a social service agency that deals with illiteracy, or at a software company working on search engine optimization terms.

Many students find that acquiring advanced fluency in a second or third language beyond their native tongue is helpful for understanding the commonalities and differences between languages. However, no additional foreign language is required beyond the standard requirement for Letters & Science students - four years in high school of the same language or four semesters in college of the same language.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits 3

### Humanities

Select 6 credits 6

### Social Sciences

Select 6 credits 6

### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	

Code	Title	Credits
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	0-18
	Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)	

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	9
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		



Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. \*

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\*

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Linguistics Major Requirements**

The undergraduate major in linguistics may be obtained by pursuing either the general major option or the applied major option. Students must complete 30 credits in either the general major option or the applied major option. Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. The College also requires students to complete a research experience in their major.

**Major Options**

**General Linguistics Major Option**

Code	Title	Credits
<b>Basic Requirements</b>		
LINGUIS 350	Introduction to Linguistics	3
LINGUIS 450	Introduction to Phonetics	3
LINGUIS 461	Introduction to Phonology	3

LINGUIS 464 Introduction to Syntax 3

**Special Requirements**

Select at least three of the following: 9

LINGUIS 415	First Language Acquisition
LINGUIS 420	Introduction to Second Language Acquisition
LINGUIS 430	Language and Society
LINGUIS 455	Semantics
LINGUIS 468	Language in its Various Forms:
LINGUIS 470	Historical/Comparative Linguistics
LINGUIS 474	Language Typology and Language Universals
LINGUIS 561	Advanced Phonology
LINGUIS 564	Advanced Syntax
LINGUIS 590	Morphology

**Electives**

Select 9 credits <sup>1</sup> 9

**Total Credits 30**

<sup>1</sup> Coursework in linguistics and related areas, selected from the approved electives list (see below) in consultation with an advisor in the Linguistics program.

**Applied Linguistics Major Option**

Code	Title	Credits
<b>Basic Requirements</b>		
LINGUIS 350	Introduction to Linguistics	3
LINGUIS 420	Introduction to Second Language Acquisition	3
LINGUIS/ANTHRO 570 or LINGUIS 430	Issues in Bilingualism Language and Society	3
LINGUIS 450	Introduction to Phonetics	3
LINGUIS 461	Introduction to Phonology	3
LINGUIS 464	Introduction to Syntax	3

**Special Requirements**

Select at least two of the following: 6

LINGUIS 415	First Language Acquisition
LINGUIS 432	Urban Dialects
LINGUIS 440	Psycholinguistics
LINGUIS 441	Introduction to TESOL Methods
LINGUIS 468	Language in its Various Forms:
LINGUIS 510	Methodologies in English Language Teaching
LINGUIS 567	Materials and Curriculum for TESOL

**Electives**

Select 6 credits <sup>1</sup> 6

**Total Credits 30**

<sup>1</sup> Coursework in linguistics and related areas, selected from the approved electives list (see below) in consultation with an advisor in the Linguistics program.

## Linguistics Major Approved Electives

Code	Title	Credits
All linguistics courses not selected to meet a specific requirement in the option		
All language courses (does not include literature courses)		
The following courses offered by other units:		
ANTHRO 105	Introduction to Linguistic Anthropology	3
ANTHRO 362	System Failure: Globalization and Language Extinction	3
ANTHRO 641	Seminar in Anthropology: (with linguistics subtitle)	3
COMMUN 320	Nonverbal Communication	3
COMMUN 350	Intercultural Communication	3
COMSDIS 230	Introduction to Phonetics	4
COMSDIS 240	Normal Speech and Language Development	3
COMPSCI 132	Introduction to Computers and Programming	3
COMPSCI 423	Introduction to Natural Language Processing	3
COMPSCI 431	Programming Languages Concepts	3
ENGLISH 211	Aspects of the English Language:	3
ENGLISH/LINGUIS 400	Introduction to English Linguistics	3
ENGLISH 402	Theories of Language and Literature: (with language focus)	3
ENGLISH 403	Survey of Modern English Grammar	3
FRENCH 392	Phonetics	3
GERMAN 371	German Phonetics	3
GERMAN 451		3
PHILOS 211	Elementary Logic	3
PHILOS 212	Modern Deductive Logic	3
PHILOS 511	Symbolic Logic	3
PHILOS 516	Language and Meaning	3
PHILOS 517	Special Problems in the Philosophy of Language and Linguistics:	3
SPANISH 341	Introduction to Hispanic Linguistics	3
SPANISH 444	Spanish Syntax and Morphology	3
SPANISH 541	History of the Spanish Language	3

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;

- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Linguistics, MA

### Related Certificates

- Adult/University-Level TESOL Graduate Certificate (<http://uwm.edu/graduateschool/adult-university-level-tesol-certificate/>)

## Overview

The Department of Linguistics offers master's and doctoral degrees and a graduate certificate in Adult/University-Level Teaching English to Speakers of Other Languages (TESOL).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate major in linguistics or related field (e.g. languages, psychology, anthropology, philosophy).
2. Undergraduate grade point average of 3.0 (4.0 scale).
3. Three letters of recommendation to the Department's Director of Graduate Studies from persons familiar with applicant's academic ability and achievement.
4. A sample of academic writing.
5. A reason statement.
6. Though not required, submission of scores on the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) may enhance the application.

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree. Applicants should contact the Linguistics Department office for additional information and deadlines.

## Credits and Courses

Students admitted to the master's program earn the degree by completing a minimum of 30 credits of graduate coursework, submitting a final project, and passing an oral examination on the final project. Students who demonstrate a capacity for doctoral work and wish to earn a PhD at UWM are advised to proceed as rapidly as possible to doctoral status. No more than 30 credits earned at the master's level may be included in the 54 credits required for the PhD.

The MA in Linguistics requires 30 graduate credits, including:

Code	Title	Credits
<b>Core Areas of Linguistics</b>		
LINGUIS 715 or LINGUIS 720	First Language Acquisition Introduction to Second Language Acquisition	3
LINGUIS 750	Introduction to Phonetics	3
LINGUIS 755	Semantics	3
LINGUIS 761	Introduction to Phonology	3
LINGUIS 764	Introduction to Syntax	3

LINGUIS 768 or LINGUIS 770	Language in its Various Forms: Historical and Comparative Linguistics	3
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Electives	
Select 12 elective credits distributed among 400- to 800-level courses in linguistics and related fields as approved by the student's major professor	12

<b>Total Credits</b>	<b>30</b>
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Students who completed any of the required courses as undergraduates will substitute another course selected in consultation with their major professor.

## Additional Requirements

### Major Professor as Advisor

The student must have a Major Professor to advise and supervise the student's work as specified in Graduate School regulations. The director of graduate studies serves as an initial advisor. It is recommended that the student have a permanent advisor by the end of the second semester of enrollment.

### Final Project

A research paper or other project appropriate to the student's professional goals, to be defended in an individualized oral examination.

- Final project. The project is a research paper on a topic chosen in consultation with the student's advisor; for students specializing in Teaching ESL to Adult Learners, the project may take some other form as approved by the major professor.
- Oral examination. The oral examination, usually lasting an hour and a half, focuses on the final project but also covers other elements of the student's program of study.

Regulations concerning final projects and oral examinations

1. Students should consult with their advisors before completing 24 credits in order to determine a final project. Ordinarily, this is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, analysis and argumentation. For students specializing in Teaching ESL to Adult Learners, the project may consist of documentation of the outcome of a pedagogical investigation undertaken during the student's internship. The project serves both as a concluding effort at the master's level and as an indication of the student's potential for doctoral study.
2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be Linguistics Department faculty members. The MA Examining Committee administers the final Oral Examination.
3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 30 credits at the master's level is applicable to the PhD 54 credit requirement.
4. Students who express intent to go on for the PhD are evaluated by the MA Examining Committee regarding their qualifications for further graduate study at the doctoral level. The Committee Chair puts the Committee's recommendation in writing and places it in the student's academic file.
5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. Students must register for 1-3 credits when revising the final project after a failed examination; however, the

additional credit(s) may not count toward the 30 credits required for the degree.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Linguistics, Minor

Linguistics is the scientific study of language. Students of linguistics do not necessarily seek fluency in a second or third language. Instead, they study the components that make up any given language - the syntax, the grammar, the regional differences, the slang, the pronunciations, the symbols, the changes over time, how people learn a language, and more.

At UWM, Linguistics students can opt for a broad linguistics minor which will touch on all aspects of language development and learning. Or, students can choose an applied linguistics minor which will focus more on using the principles of linguistics in a business setting such as in the classroom to help students learn a second language, in a social service agency that deals with illiteracy, or at a software company working on search engine optimization terms.

Many students find that acquiring advanced fluency in a second or third language beyond their native tongue is helpful for understanding the commonalities and differences between languages. However, no additional foreign language is required beyond the standard requirement for Letters & Science majors: four years in high school of the same language or four semesters in college of the same language.

## Requirements

Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including transfer work.

### General Linguistics Minor Option

Code	Title	Credits
<b>Basic Requirements</b>		
LINGUIS 350	Introduction to Linguistics	3
LINGUIS 430	Language and Society	3
Select one of the following:		3
LINGUIS 415	First Language Acquisition	
LINGUIS 461	Introduction to Phonology	
LINGUIS 464	Introduction to Syntax	
LINGUIS 468	Language in its Various Forms:	
<b>Electives</b>		
Select 9 credits <sup>1</sup>		9
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Coursework in linguistics and related areas selected in consultation with an advisor in the Linguistics program. Students are encouraged to focus their electives in an area closely aligned with the study of linguistics, including various foreign languages, English, anthropology, philosophy, computer science, and education, among others.

### Applied Linguistics Minor Option

Code	Title	Credits
<b>Basic Requirements</b>		
LINGUIS 350	Introduction to Linguistics	3
LINGUIS 420	Introduction to Second Language Acquisition	3
LINGUIS 430	Language and Society	3
ANTHRO/LINGUIS 570	Issues in Bilingualism	3
Select one of the following:		3
LINGUIS 415	First Language Acquisition	
LINGUIS 441	Introduction to TESOL Methods	
LINGUIS 461	Introduction to Phonology	
LINGUIS 464	Introduction to Syntax	
LINGUIS 468	Language in its Various Forms:	
<b>Electives</b>		
Select 3 credits <sup>1</sup>		3
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Coursework in linguistics and related areas selected in consultation with an advisor in the Linguistics program. Students are encouraged to focus their electives in an area closely aligned with the study of linguistics, including various foreign languages, English, anthropology, philosophy, computer science, and education, among others.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Linguistics, PhD

### Related Certificates

- Adult/University-Level TESOL Graduate Certificate (<http://uwm.edu/graduateschool/adult-university-level-tesol-certificate/>)

## Overview

The Department of Linguistics offers master's and doctoral degrees and a graduate certificate in Adult/University-Level Teaching English to Speakers of Other Languages (TESOL).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students wishing to enter the PhD program in Linguistics, including those who hold a master's degree from elsewhere, must satisfy the requirements for the UWM Master of Arts degree in Linguistics. Students apply to the Graduate School for admission, which, in turn, forwards completed applications to the Department. The Department faculty then evaluates the applications and decides on admissions to the PhD program in Linguistics. Occasionally, an exceptionally well-qualified student will be admitted to the PhD program with a baccalaureate degree. The student must complete the requirements of the MA degree in the course of fulfilling the requirements for the PhD

New students are admitted each year typically to begin in the Fall term. To be considered, all application materials normally must be received by the Graduate School no later than December 15. Admission materials will include:

- Completed Graduate School application.
- Official transcripts of previous work, including evidence of a master's degree either completed or in progress.
- Three letters of recommendation.
- Sample of written work.
- Statement of purpose.

In addition, students whose native language is not English must submit scores on the Test of English as a Foreign Language (TOEFL), or the equivalent. A score of at least 587 (TOEFL) is normally necessary for admission. The minimum score for the computer based TOEFL is 240, or 95 for the internet-based test (iBT).

Submission of Graduate Record Examination (GRE) results (<http://uwm.edu/graduateschool/admission/#gre>), though not required, is encouraged.

## Credits and Courses

The PhD program requires a minimum of 54 credits beyond the BA. The 54 credits are distributed as follows:

Code	Title	Credits
<b>Required</b>		
LINGUIS 715	First Language Acquisition	3
or LINGUIS 720	Introduction to Second Language Acquisition	
LINGUIS 750	Introduction to Phonetics	3
LINGUIS 755	Semantics	3
LINGUIS 761	Introduction to Phonology	3
LINGUIS 764	Introduction to Syntax	3
LINGUIS 768	Language in its Various Forms:	3
or LINGUIS 770	Historical and Comparative Linguistics	
LINGUIS 850	Advanced Phonetics	3
LINGUIS 855	Advanced Semantics	3
LINGUIS 861	Advanced Phonology	3

LINGUIS 864	Advanced Syntax	3
<b>Seminars and Independent Study</b>		
Select 12 credits in 800-level linguistics seminars (Linguis 801-806) and independent studies, at least 9 credits of which must be in seminars		12
<b>Electives</b>		
Select 12 elective credits, selected with approval of the student's major professor		12
<b>Total Credits</b>		<b>54</b>

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's work as specified in Graduate School regulations. The Director of Graduate Studies serves as an initial advisor.

### General Restrictions

Doctoral students may not count more than 9 credits in independent study toward the degree without the approval of the Director of Graduate Studies. No more than 18 credits may be counted in courses taken outside the Department of Linguistics.

### Advising

Students are required to consult periodically with their Major Professor. The Major Professor helps the student to define an area of special interest within the concentration for the preliminary examination. The Major Professor also assists the student in the selection of appropriate coursework and may chair the Preliminary Examination Committee.

### Foreign Language Requirement

All PhD candidates are required to demonstrate proficiency (reading knowledge) in a language other than English. The choice of language, and the means of demonstrating proficiency, must be approved by the student's Major Professor in consultation with the Director of Graduate Study.

### Residence

The student must meet minimum Graduate School residence requirements.

### Doctoral Preliminary Examination

The doctoral preliminary examination consists of an oral defense of a major research paper submitted by the student typically after completing 39 to 45 credits toward the PhD degree. Though the scope of the examination, which usually lasts two hours, is open-ended, its focus is on the submitted research paper, which itself is intended to demonstrate the breadth and depth of a student's knowledge and the ability to conduct advanced research in one or more areas of study. The successfully-defended research paper should lead naturally to timely preparation of the dissertation proposal.

Students cannot take the preliminary examination if they have any incomplete or unreported grades or a GPA less than 3.0. The exam must be finished within one semester after all coursework is completed, excluding summer sessions. Students may receive from the Director of Graduate Studies a one semester extension for additional coursework. Students who do not complete the exam within this time frame will be considered to have failed the exam. The exam may be retaken only once, after making appropriate revisions to the research paper. Students who fail the preliminary examination may not proceed to the dissertation. The

exam must be passed within five years of initial enrollment in the doctoral program.

### Dissertation

The dissertation topic, together with a comprehensive prospectus, must be approved by the student's doctoral committee in a dissertation proposal hearing that should be held not later than the semester immediately following the preliminary examination. The dissertation proposal is typically, albeit not necessarily, a refinement and extension of the research paper defended in the oral preliminary examination. Though no specific length requirements are imposed on the dissertation itself, the Department considers 200 pages to be reasonable and representative.

### Dissertation Defense

The completed dissertation is subject to an oral defense, to be arranged by the Major Professor in coordination with the Director of Graduate Study according to Graduate School regulations. A copy of the dissertation is kept in the Department office.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

## Teaching of English to Speakers of Other Languages and Applied Linguistics, MA

*Admission to the MA in TESOL is suspended for the 2024-2025 academic year.*

The MA in TESOL (Teaching English as a Second Language) and Applied Linguistics prepares students for careers teaching adult learners of English as a second language in a variety of contexts. The program blends essential core linguistics with highly specialized training in methodologies of teaching English, second language acquisition, bilingualism, and multicultural awareness.

The use of English as an international language of communication has increased dramatically in the last few decades, and the demand for highly trained TESOL professionals is great in many parts of the world. Graduates will be qualified for positions both abroad and in the US. Opportunities within the US may include teaching English to international students, immigrants, or other visitors. International contexts can range from university instruction, private language academies, as well as consultation with public schools. TESOL is a dynamic profession that combines innovation and creativity with interactions in culturally diverse communities.

## Admission Requirements

*Admission to the MA in TESOL is suspended for the 2024-2025 academic year.*

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

As with admission to other graduate programs in Linguistics, admission to the MA in TESOL and Applied Linguistics program will be determined based on the education, skills, experience, past academic performance, and interests of the applicant. The Department of Linguistics faculty will review each application to determine whether a student is qualified for admission to the program. In addition to meeting graduate school requirements for admission, potential students must provide three letters of recommendation from persons familiar with the applicant's academic or professional work; a writing sample demonstrating the applicant's critical thinking, research, and writing skills; and a current resume that clearly articulates the applicant's professional, international, and intercultural experiences as well as language exposure and proficiencies.

*Admission to the MA in TESOL is suspended for the 2024-2025 academic year; no applications are being accepted at this time.*

## Credits and Courses

Code	Title	Credits
<b>Required Courses:</b>		
LINGUIS 520G	Advanced Second Language Acquisition:	3
LINGUIS 720	Introduction to Second Language Acquisition	3
LINGUIS 741	Introduction to TESOL Methods	3
LINGUIS 750	Introduction to Phonetics	3
LINGUIS 761	Introduction to Phonology	3
LINGUIS 764	Introduction to Syntax	3
LINGUIS 810	Methodologies in English Language Teaching	3
LINGUIS 867	Materials and Curriculum for TESOL	3
LINGUIS 869	Practicum in Teaching ESL to Adult Learners (take 3 credits)	1-6
<i>Elective (Choose one):</i>		
AD LDSP 757	Principles and Foundations of Adult Education	3
CURRINS 503G	Assessment Issues in Language Education	
CURRINS 542G	History and Politics of Second Language Education	
CURRINS 655G	Applied Educational Linguistics	
LINGUIS 430G	Language and Society	
LINGUIS 570G	Issues in Bilingualism	
LINGUIS 708	Proseminar in Linguistics	
LINGUIS 755	Semantics	
LINGUIS 768	Language in its Various Forms:	
LINGUIS 806	Seminar in Linguistics: (Language Acquisition topic)	

**Total Credits** **30**

## Additional Requirements

### Major Professor as Advisor

The student must have a Major Professor to advise and supervise the student's work as specified in Graduate School regulations. The director of graduate studies serves as an initial advisor. It is recommended that

the student have a permanent advisor by the end of the second semester of enrollment.

## Final Project

A research paper or other project appropriate to the student's professional goals, to be defended in an individualized oral examination.

- Final project: The project is a research paper on a topic chosen in consultation with the student's advisor; for students specializing in Teaching ESL to Adult Learners, the project may take some other form as approved by the major professor.
- Oral examination: The oral examination, usually lasting an hour and a half, focuses on the final project but also covers other elements of the student's program of study.

### Regulations concerning final projects and oral examinations:

1. Students should consult with their advisors before completing 24 credits in order to determine a final project. Ordinarily, this is a revised and expanded course or seminar paper of at least 30 pages. The project should demonstrate the student's skills in research, analysis and argumentation. For students specializing in Teaching ESL to Adult Learners, the project may consist of documentation of the outcome of a pedagogical investigation undertaken during the student's internship. The project serves both as a concluding effort at the master's level and as an indication of the student's potential for doctoral study.
2. In consultation with the student, the Director of Graduate Studies appoints an MA Examining Committee. At least two of the three members must be Linguistics Department faculty members. The MA Examining Committee administers the final Oral Examination.
3. The project must be submitted and the oral examination completed within one year after the completion of 24 credits. Students should remember that a maximum of 30 credits at the master's level is applicable to the PhD 54 credit requirement.
4. Students who express intent to go on for the PhD are evaluated by the MA Examining Committee regarding their qualifications for further graduate study at the doctoral level. The Committee Chair puts the Committee's recommendation in writing and places it in the student's academic file.
5. Students who fail the oral examination may be required to revise their final project, retake the examination, or both. The oral examination may be retaken only once. Students must register for 1-3 credits when revising the final project after a failed examination; however, the additional credit(s) may not count toward the 30 credits required for the degree.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Mathematical Sciences

The Department of Mathematical Sciences at the University of Wisconsin-Milwaukee is home to an active community of teachers, scholars, undergraduates, and graduate students. In addition to most traditional areas of Pure and Applied Mathematics, the department contains all UWM programs in Actuarial Science.

The department offers Bachelor's, Master's, and Doctoral studies in all of these areas, in addition to several interdisciplinary programs. Established in 1963, the PhD in Mathematics is the original doctoral program at

UWM, founded by Dr. Morris Marden (<http://uwm.edu/math/graduate/resources/history-of-our-graduate-program/morris-mardens-biography/>).

In addition, together with Computer Science (in the College of Engineering and Applied Science), we offer the Applied Math and Computer Science Bachelor of Science degree, as well as a Data Science Bachelor of Science degree.

Mathematics is the principal language of modern science and technology. In such diverse areas as physics, engineering, economics, computer science, and biology, much of the subject matter is presented in mathematical terms. In addition, mathematical techniques are now being used in many areas which formerly were non-mathematical; for example, history, political science, psychology, and medicine.

Some students are drawn to mathematics because of the beauty they find in its structure and logic, others because it allows a deeper understanding of an allied area of study.

**Actuarial science** is the mathematical analysis of problems in economics, finance, and insurance. It requires knowledge of statistics, probability, and interest theory and how they relate to financial issues.

**Data science** uses large sets of data — sometimes millions of pieces of data — to describe or solve some of the world's toughest problems. Data scientists use those large sets of information to describe what's happening, explain why it's happening, predict what's likely to happen and make decisions about what action to take.

The **Applied Mathematics and Computer Science** degree combines core subjects in the two fields, preparing students for work in industrial and technology fields.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should consult the School of Education section of this catalog.

For the Mathematics, Actuarial Science, Applied Math & Computer Science, and Data Science programs, please visit the department web page at <https://uwm.edu/math/> and follow the links to the undergraduate program for more information.

### There are three curricular areas in the Department of Mathematical Sciences:

- Actuarial Science (ACTSCI)
- Mathematics (MATH)
- Mathematical Statistics (MTHSTAT)

### Undergraduate Studies - We offer two minors and five undergraduate degrees:

- Bachelor of Science Degrees: Mathematics; Applied Mathematics and Computer Science (AMCS); Data Science (the latter two jointly with the Computer Science department)
- Bachelor of Arts Degrees: Mathematics; Actuarial Science
- Minors: Mathematics; Actuarial Science

## Graduate Studies in Mathematical Sciences

The Department has a vibrant graduate program leading to both the Master of Science and Doctor of Philosophy degree in Mathematics. In addition to traditional areas of Mathematics and Statistics, our graduate offerings include UW-Milwaukee's Actuarial Science programs. The department also offers a newly established dual degree in mathematics with Fachhochschule Aachen (Aachen University of Applied Sciences) in Germany. Students may prepare for careers in teaching at the secondary or college level and for careers in research in the academic, industrial, government, or business communities.

- Applied Math and Computer Science, BS (College of Letters and Science, Department of Mathematical Sciences) (p. 1198)
- Data Science, BS (College of Letters and Science, Department of Mathematical Sciences) (p. 1200)
- Mathematics, BA (p. 1201)
- Mathematics, BS (p. 1206)
- Mathematics, Minor (p. 1210)
- Mathematics, MS (p. 1211)
- Mathematics, MS: Actuarial Science (p. 1212)
- Mathematics, MS: Statistics (p. 1214)
- Mathematics, PhD (p. 1215)

### ***See below for detailed program information and requirements.***

- Actuarial Science, BA (p. 1193)
- Actuarial Science, Minor (p. 1197)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Fredric D. Ancel	Professor	PhD			✓
James E. Arnold Jr.	Associate Professor	PhD			✓
Jay H. Beder	Professor	PhD			✓
Allen D. Bell	Associate Professor	PhD			✓
Rebecca Bourn	Faculty Associate	PhD	University of Virginia		
Suzanne L. Boyd	Associate Professor	PhD	Cornell University	✓	
Vytaras Brazauskas	Professor	PhD	University of Texas at Dallas	✓	
Dashan Fan	Professor	PhD			✓
Jonah Gaster	Assistant Professor	PhD	University of Illinois at Chicago	✓	
Daniel Gervini	Professor	PhD	Universidad de Buenos Aires	✓	
Jugal K. Ghorai	Professor	PhD			✓
Craig R. Guilbault	Professor	PhD	University of Tennessee	✓	
Robert L. Hall	Associate Professor	PhD			✓
Pamela E. Harris	Associate Professor	PhD	University of Wisconsin-Milwaukee	✓	
Peter Hinow	Professor	PhD	Vanderbilt University	✓	
Yang Ho	Clinical Professor	PhD			✓
Ingrid Holzner	Senior Lecturer	MS			✓
G. Christopher Hruska	Professor	PhD	Cornell University	✓	
Eric S. Key	Professor	PhD			✓
Kelly Kohlmetz	Senior Lecturer	PhD	University of Wisconsin-Milwaukee		
Vincent Larson	Professor	PhD	Massachusetts Institute of Technology	✓	
Istvan G. Lauko	Associate Professor	PhD	Texas Tech University	✓	
Cheng-Ming Lee	Professor	PhD			✓
Tzu-Chu Lin	Professor	PhD			✓
Gary Luck	Senior Lecturer	MS			✓
Kevin B. McLeod	Associate Professor	PhD	University of Minnesota	✓	
Richard J. Mihalek	Associate Professor	PhD			✓
Albert J. Milani	Professor	PhD			✓
Robert H. Moore	Associate Professor	PhD			✓
Ian M. Musson	Professor	PhD			✓
Thomas O'Bryan	Associate Professor	PhD			✓



Richard J. O'Malley	Professor	PhD			✓
Boris L. Okun	Professor	PhD	State University of New York at Binghamton	✓	
Gabriella Pinter	Professor	PhD	Texas Tech University	✓	
Ahmed H. Sameh	Adjunct Professor	PhD			✓
David H. Schultz	Professor	PhD			✓
Steven Schwengels	Senior Lecturer	MS			✓
Lindsay A. Skinner	Professor	PhD			✓
Panayiotis Skordi	Clinical Professor	PhD	Curtin University		
Donald W. Solomon	Associate Professor	PhD			✓
David Spade	Associate Professor	PhD	The Ohio State University	✓	
Richard Stockbridge	Distinguished Professor	PhD	University of Wisconsin-Madison	✓	
Lijing Sun	Associate Professor	PhD	Wayne State University	✓	
Anastasios Tsonis	Distinguished Professor	PhD			✓
Xianwei Van Harpen	Senior Lecturer	PhD	Illinois State University		
Hans W. Volkmer	Professor	PhD			✓
Bruce Wade	Professor	PhD			✓
Gilbert G. Walter	Professor	PhD			✓
Lei Wang	Associate Professor	PhD	University of Michigan	✓	
Jeb Willenbring	Professor	PhD	University of California, San Diego	✓	
Dexuan Xie	Professor	PhD	University of Houston	✓	
Chao Zhu	Professor	PhD	Wayne State University	✓	
Yi Ming Zou	Professor	PhD			✓

## Actuarial Science, BA

Actuarial science is the quantitative analysis of risk. In addition to mathematics and statistics courses, students in actuarial science take classes in finance, economics and computer programming.

At many universities, actuarial sciences is housed in the business department. We believe that the most successful actuaries have an extensive foundation in mathematics and in the broader liberal arts, and therefore our program is housed in our Department of Mathematical Sciences.

While you will take several business classes, you will also be heavily exposed to the broader context in which risk exists in our lives. Through economics courses and other courses in the social sciences and humanities, you will see how actuarial science is not practiced in a vacuum but has real-life implications and impact on businesses, individuals, and communities as a whole.

Students interested in actuarial science should make every effort to prepare themselves in high school by taking four years of challenging math classes. Ideally, students will enter college ready to start in the first semester of calculus.

As students progress in our program, they begin to take the professional exams required of actuaries, making themselves more attractive job candidates. Our location in Milwaukee, the largest city in Wisconsin and home to many large and small companies, also gives our students easier access to internships and part-time jobs compared to smaller cities. If you are looking for more advanced training beyond the bachelor's level, explore our Master's of Science in Mathematical Sciences (<http://uwm.edu/math/graduate/programs/ms-program/>). In this program, you can obtain graduate-level training in actuarial science.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

#### Arts

Select 3 credits 3

#### Humanities

Select 6 credits 6

#### Social Sciences

Select 6 credits 6

#### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

#### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

#### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing

course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete

*the BA, students must take one of the L&S approved courses. Not all of the courses listed here will satisfy the QL-B requirement.*

Complete 3 credits in a course with Cultural Diversity (CD) designation.\*\* 3

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	
	Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)	

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		
	Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
<b>Cultural Diversity</b>		

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Actuarial Science Major Requirements

Students who intend to complete the BA in Actuarial Science program in four years will need to begin taking mathematics in their first semester. Such students should have a University of Wisconsin-Milwaukee mathematics placement level of 30 (ready for precalculus) or better.

### Admission

To be eligible for admission, a student should have completed their Calculus sequence with a GPA of 2.50 or better and MATH 234 or MATH 240. In addition, students should have earned a grade of B- or better in either ACTSCI 391 or MTHSTAT 361, or should have earned a score of 4 or higher on the Society of Actuaries Exam FM or P.

### Preparatory Curriculum

Students must complete one of Calculus Sequences: MATH 211 and MATH 212, or MATH 231 (or MATH 213), MATH 232, and MATH 233 (or equivalent). MATH 221 and MATH 222 are equivalent to MATH 231, MATH 232, and MATH 233. Students majoring in actuarial science must have an average GPA of at least 2.500 in these courses. Additional preparatory curricula are required, as listed below.

### Capstone Experience

Students must complete a Capstone Experience. The aim of the capstone experience is to encourage independent learning. Students complete

a research paper in the context of this course, which satisfies the L&S research requirement. For Actuarial Science majors, the capstone is ACTSCI 599. Students must obtain consent of the instructor to enroll in ACTSCI 599.

## Requirements

Students must complete the courses listed below, including at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Code	Title	Credits
<b>Additional Preparatory Curriculum</b>		
ACTSCI 290	Introduction to Actuarial Science	3
MATH 234	Linear Algebra and Differential Equations	3-4
or MATH 240	Matrices and Applications	
COMPSCI 250	Introductory Computer Programming	3
COMPSCI 251	Intermediate Computer Programming	3
BUS ADM 201	Introduction to Financial Accounting	4
ECON 103	Principles of Microeconomics	3
ECON 104	Principles of Macroeconomics	3
<b>Core Curriculum</b>		
ACTSCI 391	Investment Mathematics I	4
MTHSTAT 361	Introduction to Mathematical Statistics I	3
MTHSTAT 362	Introduction to Mathematical Statistics II	3
BUS ADM 350	Principles of Finance	3
or BUS ADM 450	Intermediate Finance	
ACTSCI 490	Introduction to Actuarial Practice	1
ACTSCI 491	Actuarial Workshop FM	1
ACTSCI 492	Actuarial Workshop P	1
ACTSCI 599	Capstone Experience	1
ACTSCI 593	Actuarial Models I	3
ACTSCI 596	Actuarial Statistics I	3
ACTSCI 594	Actuarial Models II	3
or ACTSCI 597	Actuarial Statistics II	
MTHSTAT 563	Regression Analysis	3
MTHSTAT 564	Time Series Analysis	3
MTHSTAT 568	Multivariate Statistical Analysis	3
Select one of the following three courses:		3
ACTSCI 591	Investment Mathematics II	
MATH 583	Introduction to Probability Models	
MTHSTAT 566	Computational Statistics	
<b>Total Credits</b>		<b>60-61</b>

## Recommended Electives

To achieve the best preparation for an actuarial career, students actively should pursue internship opportunities with insurance companies, consulting firms, and other organizations that require actuarial science knowledge. Once such an opportunity is secured, the student should enroll in ACTSCI 590. Students also should take courses in business communication (COMMUN 105, ENGLISH 205), computer science

(COMPSCI 351, COMPSCI 557), and expand their knowledge in economics (ECON 325, ECON 450).

## Professional Development

For future advancement in the field of actuarial science, "Validation by Educational Experience" (VEE) credits are required. VEE credits may be earned from the Society of Actuaries (SOA) and Casualty Actuarial Society (CAS) with a grade of B- or better in the following courses:

Code	Title	Credits
MTHSTAT 362	Introduction to Mathematical Statistics II (VEE-Mathematical Statistics)	3
ECON 103	Principles of Microeconomics (VEE-Economics)	3
ECON 104	Principles of Macroeconomics (VEE-Economics)	3
BUS ADM 201	Introduction to Financial Accounting (VEE-Accounting and Finance)	4
BUS ADM 450	Intermediate Finance (VEE-Accounting and Finance)	3

Courses taken at other universities may be used to meet the VEE requirement of the SOA/CAS.

Students considering a major in Actuarial Science need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and since **required courses are not offered every semester or year**, students should check regularly with their advisors to plan their courses of study in order to finish in a coherent and timely fashion.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Students in Actuarial Science who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Actuarial Science major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Actuarial Science major; and
4. The passing of at least three professional actuarial exams.

Students who believe they may qualify for honors in Actuarial Science should apply to the Mathematical Sciences Department during their last semester of study.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Actuarial Science, Minor

Actuarial science is the quantitative analysis of risk. In addition to mathematics and statistics courses, students in actuarial science take classes in finance, economics and computer programming.

At many universities, actuarial sciences is housed in the business department. We believe that the most successful actuaries have an extensive foundation in mathematics and in the broader liberal arts, and therefore our program is housed in our Department of Mathematical Sciences.

While you will take several business classes, you will also be heavily exposed to the broader context in which risk exists in our lives. Through economics courses and other courses in the social sciences and humanities, you will see how actuarial science is not practiced in a vacuum but has real-life implications and impact on businesses, individuals, and communities as a whole.

Students interested in actuarial science should make every effort to prepare themselves in high school by taking four years of challenging math classes. Ideally, students will enter college ready to start in the first semester of calculus.

As students progress in our program, they begin to take the professional exams required of actuaries, making themselves more attractive job candidates. Our location in Milwaukee, the largest city in Wisconsin and home to many large and small companies, also gives our students easier access to internships and part-time jobs compared to smaller cities. If you are looking for more advanced training beyond the bachelor's level, explore our Master's of Science in Mathematical Sciences (<http://uwm.edu/math/graduate/programs/ms-program/>). In this program, you can obtain graduate-level training in actuarial science.

## Requirements

Students must complete at least 9 upper-division (numbered 300 and above) credits for the minor in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Code	Title	Credits
<b>Admission Courses</b> <sup>1</sup>		
One of the following calculus sequences (or an equivalent)		8-12
MATH 231 & MATH 232 & MATH 233	Calculus and Analytic Geometry I and Calculus and Analytic Geometry II and Calculus and Analytic Geometry III	
MATH 211 & MATH 212	Survey in Calculus and Analytic Geometry I and Survey in Calculus and Analytic Geometry II	
<b>Required Courses</b>		
ACTSCI 290	Introduction to Actuarial Science	3
ACTSCI 391	Investment Mathematics I	4
MATH 234 or MATH 240	Linear Algebra and Differential Equations Matrices and Applications	3-4
MTHSTAT 361	Introduction to Mathematical Statistics I	3

MTHSTAT 362	Introduction to Mathematical Statistics II	3
BUS ADM 450	Intermediate Finance <sup>2</sup>	3
<b>Total Credits</b>		<b>27-32</b>

<sup>1</sup> Admission to the minor requires a minimum GPA of 2.500 in these courses or an equivalent course sequence. Students who have completed these courses with the required GPA may complete a formal declaration of minor at the department office. These courses do not count in the minor GPA.

<sup>2</sup> BUS ADM 450 should be completed with a grade of B- or better.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Applied Math and Computer Science, BS (College of Letters and Science, Department of Mathematical Sciences)

The Applied Mathematics and Computer Science (AMCS) program is a special degree program that blends courses from both the College of Letters & Science and the College of Engineering & Applied Science. It is a structured curriculum offering courses from both applied math and computer science so that students get the benefit of both majors without having to double major.

The job outlook for individuals with math majors is extremely favorable, as is the job outlook for computer science majors. A student with combined knowledge in both areas is likely to be in high demand on the job market.

Our program is highly technical in nature yet still retains elements of a classic liberal arts degree. Students take courses in the humanities, social sciences, and natural sciences on their way to a degree. Why? Because math and computer science are not applied in a world without humans. Regardless of the type of industry, the applications being worked on have impact and consequences for human beings. A broad world view of cultures, history, and society only leads to better decision-

making in scientific careers, and strong communication skills only make our graduates even more attractive.

## Applied Math and Computer Science Major Requirements

Students who intend to complete the program in four years will need to begin taking mathematics in their first semester. Such students should have a University of Wisconsin-Milwaukee mathematics placement level of 30 (ready for precalculus) or better.

### Admission

As soon as students realize their interest in the AMCS degree, they should consult with an AMCS advisor either in College of Engineering and Applied Science or College of Letters and Science, who assists in planning a program. Admission to the program requires a GPA of at least 2.500 in 8 credits of mathematics courses at or above the 200 level and 6 credits of computer science courses at or above the 200 level.

### Degree Requirements

For the BS (AMCS) degree, 120 credits are required, of which 60 must be taken from the College of Letters and Science. Students must satisfy the general education requirements (GER) (p. 29) of the University. Students must take at least 8 credits of natural sciences outside of mathematics or mathematical statistics.

An overall GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve a 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.000 GPA must be earned on all 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree by completing at UWM both a minimum of 15 credits of the required advanced courses and one of the following:

- The last 30 credits;
- 45 of the last 60 credits;
- Any 90 credits.

Code	Title	Credits
<b>Core Requirements</b>		
COMPSCI 250	Introductory Computer Programming	3
COMPSCI 251	Intermediate Computer Programming	3
COMPSCI 317	Discrete Information Structures <sup>1</sup>	3
Select the following (or an equivalent sequence):		12
MATH 231	Calculus and Analytic Geometry I	
MATH 232	Calculus and Analytic Geometry II	
MATH 233	Calculus and Analytic Geometry III	
MATH 234	Linear Algebra and Differential Equations	4
	or MATH 240	Matrices and Applications
MATH 341	Seminar: Introduction to the Language and Practice of Mathematics	3

### Advanced Requirements

COMPSCI 351	Data Structures and Algorithms	3
COMPSCI 535	Algorithm Design and Analysis	3
Select 9 credits in COMPSCI at the 300 level or above		9
Select 12 credits from MATH and/or MTHSTAT and/or ACTSCI at the 300 level or above		12

Select 9 additional credits from CompSci, Math, MthStat, and ActSci courses at the 300 level or above, beyond the "Core" as well as the above "Advanced" Requirements; included in these 9 cr must be a Capstone or Internship Course. 9

*Capstone and Internship courses*

MATH 489	Internship in Mathematics, Upper Division
MTHSTAT 489	Internship in Mathematical Statistics, Upper Division
MATH 575	High School Mathematics from an Advanced Viewpoint
MATH 599	Capstone Experience
ACTSCI 590	Actuarial Internship
ACTSCI 599	Capstone Experience
COMPSCI 594	Capstone Project Preparation
COMPSCI 595	Capstone Project
COMPSCI 599	Senior Thesis

**Total Credits 64**

<sup>1</sup> COMPSCI 317 is waived for students who earn credit for MTHSTAT 361, which counts towards the math electives for the program. Students who have COMPSCI 317 waived in this case do not need to take any additional credits.

**Additional Requirements**

Students completing a Data Science BS who wish to also earn an AMCS BS must complete 9 credits upper division ActSci/Math/MthStat/CompSci beyond the courses in those curricular areas used to fulfill the Data Science Major requirements.

**Potential Course of Study**

Year 1		Credits
<b>Fall</b>		
COMPSCI 250	Introductory Computer Programming	3
ENGLISH 101	Introduction to College Writing	3
MATH 115	Precalculus	4
1st semester foreign language		3-5
<b>Credits</b>		<b>13-15</b>
<b>Spring</b>		
COMPSCI 251	Intermediate Computer Programming	3
ENGLISH 102	College Writing and Research (OWC-A GER)	3
MATH 231	Calculus and Analytic Geometry I	4
2nd semester foreign language		3-5
<b>Credits</b>		<b>13-15</b>
<b>Year 2</b>		
<b>Fall</b>		
COMPSCI 351	Data Structures and Algorithms	3
MATH 232	Calculus and Analytic Geometry II	4
MATH 341	Seminar: Introduction to the Language and Practice of Mathematics	3
Humanities + Cultural Diversity GER		3
Arts GER		3
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
COMPSCI 317	Discrete Information Structures	3
MATH 233	Calculus and Analytic Geometry III	4
MATH 234 or MATH 240	Linear Algebra and Differential Equations or Matrices and Applications	3-4

Natural Science with lab (NS+ GER)	4-5
<b>Credits 14-16</b>	
<b>Year 3</b>	
<b>Fall</b>	
COMPSCI 535	Algorithm Design and Analysis
CompSci advanced elective	3
Math advanced elective	3
Math or Comp Sci advanced elective	3
Natural Science GER	3-4
<b>Credits 15-16</b>	
<b>Spring</b>	
CompSci advanced elective	3
Math advanced elective	3
Math advanced elective	3
Math or Comp Sci advanced elective	3
Social Science GER	3
<b>Credits 15</b>	
<b>Year 4</b>	
<b>Fall</b>	
CompSci advanced elective	3
Math advanced elective	3
Math or CompSci capstone or internship, plus Math/CS advanced elective if needed to get to 3 cr min	3
Humanities + OWCB	3
Electives as needed to reach cr requirements	6-0
<b>Credits 18-12</b>	
<b>Spring</b>	
Electives as needed to reach cr requirements <sup>1</sup>	13-12
Social Science GER	3
<b>Credits 16-15</b>	
<b>Total Credits 120</b>	

<sup>1</sup> Select a sufficient number of elective credits from the College of Letters and Science to earn a minimum of 60 L&S credits.

**Honors in the Degree**

Students in AMCS who meet all of the following criteria can be awarded honors in the degree upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses attempted that count toward the AMCS degree;
3. A 3.500 GPA over all upper division UWM courses counting toward the AMCS degree;
4. A grade of B+ or better in one of: MATH 599, MATH 699, COMPSCI 595, or COMPSCI 699;
5. Completion of 3 credits in Mathematical Sciences (curricular areas MATH or MTHSTAT) or Computer Science in a course numbered 600 or higher that is different from MATH 699 and COMPSCI 699.

Students who believe they may qualify for honors in Applied Mathematics & Computer Science should apply to the Department of Mathematical Sciences during their last semester of study.

**College of Letters and Science Dean's Honor List**

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Data Science, BS (College of Letters and Science, Department of Mathematical Sciences)

The Bachelor of Science in Data Science (BSDS) program is a special degree program that blends courses from both the College of Letters & Science and the College of Engineering & Applied Science. It is a structured curriculum offering courses from both statistics and computer science, in addition to electives from other departments and colleges.

The job outlook for individuals with data science degrees is extremely favorable. A student with combined skills in statistical analysis and computer programming is likely to be in high demand on the job market.

Our program is highly technical in nature yet still retains elements of a classic liberal arts degree. Students take courses in the humanities, social sciences, and natural sciences as part of the general education requirements, in addition to mandatory courses on the ethical implications of data science and on writing and communication. A broad world view of cultures, history, and society leads to better decision-making in scientific careers, and strong communication skills make graduates even more attractive in the job market.

## Data Science Program Requirements

Students who intend to complete the BS in Data Science (BSDS) program in four years will need to begin taking mathematics in their first semester. Such students should have a University of Wisconsin-Milwaukee mathematics placement level of 30 (ready for precalculus) or better.

### Admission

For admission to the BSDS program, students need only meet the general requirements of admission to UW-Milwaukee.

As soon as students realize their interest in the BSDS degree, they should consult with an BSDS advisor either in the College of Engineering and Applied Science or College of Letters and Science, who will assist in planning a program.

## Degree Requirements

The program requires at least 120 credits, which include University-wide General Education Requirements (<https://catalog.uwm.edu/policies/undergraduate-policies/#bachelorsdegreegeneraleducation>), 23-28 credits of mandatory preparatory courses, 36 credits of mandatory advanced core courses, a capstone course or an internship at the end of the coursework, and additional elective courses to fulfill the overall credit requirement.

An average GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve an average 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.000 GPA must be earned, on average, on 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree by completing at UWM both a minimum of 15 credits of the required advanced courses and one of the following:

- The last 30 credits;
- 45 of the last 60 credits;
- Any 90 credits.

Code	Title	Credits
<b>Preparatory Courses</b>		
<i>Mathematics</i>		
One of the following calculus sequences (or an equivalent) <sup>1</sup>		8-12
MATH 231 & MATH 232 & MATH 233	Calculus and Analytic Geometry I and Calculus and Analytic Geometry II and Calculus and Analytic Geometry III	
MATH 211 & MATH 212	Survey in Calculus and Analytic Geometry I and Survey in Calculus and Analytic Geometry II	
MATH 234 or MATH 240	Linear Algebra and Differential Equations Matrices and Applications	3-4
<i>Computer Science</i>		
COMPSCI 250	Introductory Computer Programming	3
COMPSCI 251	Intermediate Computer Programming	3
<i>Statistics</i>		
MTHSTAT 215 or IND ENG 367	Elementary Statistical Analysis Introductory Statistics for Physical Sciences and Engineering Students	3
MTHSTAT 216	Introduction to Statistical Computing and Data Science	3
<b>Total Credits</b>		<b>23-28</b>

<sup>1</sup> One equivalent sequence accepted is MATH 221 & MATH 222, or a student may replace MATH 211 or MATH 231 with MATH 213 (for other combinations see advisor).

Code	Title	Credits
<b>Core Courses</b>		
<i>Statistics</i>		
MTHSTAT 361	Introduction to Mathematical Statistics I	3
MTHSTAT 362	Introduction to Mathematical Statistics II	3



MTHSTAT 563	Regression Analysis	3
MTHSTAT 566	Computational Statistics	3
MTHSTAT 568	Multivariate Statistical Analysis	3
<i>Computer Science</i>		
COMPSCI 317 or MATH 341	Discrete Information Structures Seminar: Introduction to the Language and Practice of Mathematics	3
COMPSCI 351	Data Structures and Algorithms	3
COMPSCI 395 or PHILOS 237	Social, Professional, and Ethical Issues Technology, Values, and Society	3
COMPSCI 422	Introduction to Artificial Intelligence	3
COMPSCI 411 or COMPSCI 425	Machine Learning and Applications Introduction to Data Mining	3
COMPSCI 557	Introduction to Database Systems	3
<i>Communication and Ethics</i>		
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	3

**Total Credits 36**

Code	Title	Credits
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**Capstone Experience (select one of the options below)**

MTHSTAT 489	Internship in Mathematical Statistics, Upper Division	1-6
MATH 599	Capstone Experience	1
COMPSCI 595	Capstone Project	3
COMPSCI 599	Senior Thesis	3

Code	Title	Credits
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**Electives (to reach 120 total credits)**

Suggested are courses with substantial data analysis, data processing, or computational content, such as:

COMPSCI 315	Introduction to Computer Organization and Assembly Language Programming	3
COMPSCI 411	Machine Learning and Applications	3
COMPSCI 423	Introduction to Natural Language Processing	3
COMPSCI 425	Introduction to Data Mining	3
COMPSCI 444	Introduction to Text Retrieval and Its Applications in Biomedicine	3
COMPSCI 459	Fundamentals of Computer Graphics	3
COMPSCI 469	Introduction to Computer Security	3
COMPSCI 535	Algorithm Design and Analysis	3
MTHSTAT 562	Design of Experiments	3
MTHSTAT 564	Time Series Analysis	3
MTHSTAT 565	Nonparametric Statistics	3
MATH 315	Mathematical Programming and Optimization	3
MATH 318	Topics in Discrete Mathematics	3
MATH 583	Introduction to Probability Models	3
INFOST 120	Information Technology Ethics	3
INFOST 315	Knowledge Organization for Information Science and Technology	3
INFOST 465	Legal Aspects of Information Products and Services	3

INFOST 660	Information Policy	3
INFOST 661	Information Ethics	3

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Mathematics, BA

Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences, as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty, discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

Many students assume that most math majors become teachers. While many do, there are many other opportunities for math majors. The United States National Security Agency is the largest employer of math majors in the country. Math majors will also be found at NASA; in engineering firms; at insurance and risk management firms; in robotics and computer science companies; at large and small corporations working in market research, data management and web management; at social media start ups and established firms like YouTube; and any place that needs to make decisions based on numerical facts.

At UWM, the Math major has been designed to be flexible so that students could complete their major requirements via courses that match their interests and goals. Many students should find it relatively easy to complete double majors in mathematics and another subject.

Most mathematics courses belong in one of the following four groups: applied mathematics, computational mathematics, pure mathematics, and statistics.

- Applied Mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.
- Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing and other computational analysis.
- Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.
- Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should examine the School of Education (p. 320) programs.

Some students with an interest in computer science choose to enroll in the Applied Math and Computer Science (p. 1198) program. This program is ideal for the student who might have considered double majoring in both math and computer science; it combines applied math courses with computer science classes for you into one program.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

#### *Part B*

Course designated as QL-B; may be completed through a major-specific course requirement

#### **Arts**

Select 3 credits 3

#### **Humanities**

Select 6 credits 6

#### **Social Sciences**

Select 6 credits 6

#### **Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

#### **UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

#### **UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing

course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	0-18
	Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)	

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	9
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		
	Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
<b>Cultural Diversity</b>		

Complete 3 credits in a course with Cultural Diversity (CD) designation.\*\* 3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

# Mathematics Major Requirements

## Preparatory Curriculum

Students in all majors in the Department of Mathematical Sciences must complete MATH 231 (or MATH 213), MATH 232, and MATH 233 (or equivalent). MATH 221 and MATH 222 are equivalent to MATH 231, MATH 232, and MATH 233. Students majoring in mathematics must have an average GPA of at least 2.500 in these courses. All majors must take either MATH 234 or MATH 240, as well as a course in computer programming in a modern, high-level language (e.g., COMPSCI 151, COMPSCI 202, COMPSCI 240, COMPSCI 250, or COMPSCI 251). The department also recommends strongly one year of calculus-based physics.

## Capstone Experience

Students in all majors and major options in the Department of Mathematical Sciences must complete a "Capstone Experience." The aim of the department's capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. Mathematics majors may choose either MATH 599 or MATH 575. Students must obtain consent of a professor to enroll in MATH 599.

## Requirements

The following courses are required for the Mathematics major:

Code	Title	Credits
MATH 341	Seminar: Introduction to the Language and Practice of Mathematics	3
Select 24 credits in upper-division math courses (those numbered 300 and above, and in curricular areas MATH or MTHSTAT or ACTSCI). Required among these 24 upper-division math credits are at least six credits in math courses numbered 500 and above, excluding MATH 591, MATH 599, MATH 699, ACTSCI 490, or ACTSCI 599.		24
<b>Total Credits</b>		<b>27</b>

## Additional Requirements

- Note that MATH 381 is not open for credit in the Mathematics major.
- Actuarial Science majors wishing to complete Math as a second major must take 9 cr of upper div Math/MthStat courses beyond the major requirements of Actuarial Science.
- Students completing an AMCS degree who wish to add Mathematics as a second major must take 9 cr of additional upper division Math/MthStat/ActSci courses beyond those used to fulfill the AMCS degree Math/MthStat/ActSci requirements.
- Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM.
- The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work.

## Recommendations

Mathematics courses fall naturally into the following groups (see below for individual courses):

- Applied Mathematics
- Computational Mathematics
- Probability and Statistics
- Pure Mathematics

*For students planning to pursue graduate studies in mathematics, we recommend students take at least 36 cr upper division mathematics courses, with as many courses as possible from Pure Mathematics, Group 1. Many PhD programs require reading knowledge of French, German, or Russian.*

*For students planning to pursue graduate studies in statistics or economics, we recommend MATH 523, MATH 524, and as many as possible of MTHSTAT 361, MTHSTAT 362, and MTHSTAT 562-MTHSTAT 568.*

*For students seeking employment in statistics after the bachelor's degree, we recommend MTHSTAT 361, MTHSTAT 362, and as many as possible of MTHSTAT 562-MTHSTAT 568, as well as courses in computer programming (COMPSCI 250, COMPSCI 251, etc.).*

*For students seeking general non-academic employment after the bachelor's degree, we recommend courses from the Probability and Statistics group (including MTHSTAT 362), the Applied Mathematics group (including both modeling and differential equations), the Computational Mathematics group, Linear Algebra (MATH 535), and courses in computer programming (COMPSCI 240, COMPSCI 250, COMPSCI 251, etc.).*

For students intending to become high school mathematics teachers, we recommend courses in algebra (MATH 431, MATH 531), geometry (MATH 451), linear algebra (MATH 535), numerical methods (MATH 413), advanced calculus (MATH 523, MATH 524), the math education capstone (MATH 575), and probability and statistics (MTHSTAT 361 & MTHSTAT 362).

For students pursuing a major in mathematics as a liberal art, for general logical and critical thinking skills, we recommend the Pure Mathematics courses.

## Mathematics Groups

### Applied Mathematics

Code	Title	Credits
MATH 305	Introduction to Mathematical and Computational Modeling	3
MATH 320	Introduction to Differential Equations	3
MATH 325	Vector Analysis	3
MATH 322	Introduction to Partial Differential Equations	3
MATH 405	Mathematical Models and Applications	3
MATH 431	Modern Algebra with Applications	3
MATH 603	Advanced Engineering Mathematics I	3
MATH 604	Advanced Engineering Mathematics II	3

### Computational Mathematics

Code	Title	Credits
MATH 313	Linear Programming and Optimization	3
MATH 315	Mathematical Programming and Optimization	3
MATH 413	Introduction to Numerical Analysis	3
MATH 415	Introduction to Scientific Computing	3
MATH 417	Computational Linear Algebra	3
MATH 610	Numerical Solution of Partial Differential Equations	3
MATH 617	Optimization	3

### Probability and Statistics

Code	Title	Credits
MATH 583	Introduction to Probability Models	3
MTHSTAT 361	Introduction to Mathematical Statistics I	3
MTHSTAT 362	Introduction to Mathematical Statistics II	3
MTHSTAT 562	Design of Experiments	3
MTHSTAT 563	Regression Analysis	3
MTHSTAT 564	Time Series Analysis	3
MTHSTAT 565	Nonparametric Statistics	3
MTHSTAT 566	Computational Statistics	3
MTHSTAT 568	Multivariate Statistical Analysis	3

### Pure Mathematics

Code	Title	Credits
MATH 523	Advanced Calculus I	3
MATH 524	Advanced Calculus II	3
MATH 531	Modern Algebra	3
MATH 535	Linear Algebra	3

MATH 551	Elementary Topology	3
MATH 623	Introduction to Analysis I	3
MATH 624	Introduction to Analysis II	3
MATH 635	Modern Algebra I	3
MATH 636	Modern Algebra II	3
MATH 451	Axiomatic Geometry	3
MATH 511	Symbolic Logic	3
MATH 537	Number Theory	3
MATH 553	Differential Geometry	3

## Mathematics Advising

Students considering a major in the Department of Mathematical Sciences need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and students should check regularly with their advisors to plan their courses of study in a coherent and timely fashion.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned

Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Students in Mathematics who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Mathematics major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Mathematics major; and
4. At least one of the following:
  - Successful completion of at least two semesters of research and/or internship experiences. These may include one or more of the Capstone Experience (MATH 599), a directed independent study for credit (MATH 699), an internship for credit (MATH 489), and undergraduate research for compensation.
  - Successful completion of at least 6 credits in Mathematical Sciences (curricular areas Math or MthStat) courses numbered 600 or above.
  - A score of at least the 50th percentile on the Math Subject GRE.

Students who believe they may qualify for honors in Mathematics should apply to the Mathematical Sciences Department during their last semester of study.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Mathematics, BS

Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences, as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital

in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty, discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

Many students assume that most math majors become teachers. While many do, there are many other opportunities for math majors. The United States National Security Agency is the largest employer of math majors in the country. Math majors will also be found at NASA; in engineering firms; at insurance and risk management firms; in robotics and computer science companies; at large and small corporations working in market research, data management and web management; at social media start ups and established firms like YouTube; and any place that needs to make decisions based on numerical facts.

At UWM, the Math major has been designed to be flexible so that students could complete their major requirements via courses that match their interests and goals. Many students should find it relatively easy to complete double majors in mathematics and another subject.

Most mathematics courses belong in one of the following four groups: applied mathematics, computational mathematics, pure mathematics, and statistics.

- Applied Mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.
- Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing and other computational analysis.
- Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.
- Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

Students interested in teaching mathematics at the K-12 level should examine the School of Education (p. 320) programs.

Some students with an interest in computer science choose to enroll in the Applied Math and Computer Science (p. 1198) program. This program is ideal for the student who might have considered double majoring in both math and computer science; it combines applied math courses with computer science classes for you into one program.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students

must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
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### Oral and Written Communication

#### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)
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#### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra

Or equivalent course

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits	3
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### Humanities

Select 6 credits	6
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### Social Sciences

Select 6 credits	6
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### Natural Sciences

Select 6 credits (at least two courses including one lab)	6
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### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	

PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *	12
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### Cultural Diversity

Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3
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\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

## Mathematics Major Requirements

### Preparatory Curriculum

Students in all majors in the Department of Mathematical Sciences must complete MATH 231 (or MATH 213), MATH 232, and MATH 233 (or equivalent). MATH 221 and MATH 222 are equivalent to MATH 231, MATH 232, and MATH 233. Students majoring in mathematics must have an average GPA of at least 2.500 in these courses. All majors must take either MATH 234 or MATH 240, as well as a course in computer programming in a modern, high-level language (e.g., COMPSCI 151, COMPSCI 202, COMPSCI 240, COMPSCI 250, or COMPSCI 251). The department also recommends strongly one year of calculus-based physics.

### Capstone Experience

Students in all majors and major options in the Department of Mathematical Sciences must complete a "Capstone Experience." The aim of the department's capstone experience is to encourage independent learning. Students complete a research paper in the context of this course, which satisfies the L&S research requirement. Mathematics



majors may choose either MATH 599 or MATH 575. Students must obtain consent of a professor to enroll in MATH 599.

## Requirements

The following courses are required for the Mathematics major:

Code	Title	Credits
MATH 341	Seminar: Introduction to the Language and Practice of Mathematics	3

Select 24 credits in upper-division math courses (those numbered 300 and above, and in curricular areas MATH, MTHSTAT, or ACTSCI). Required among these 24 upper-division math credits are at least six credits in math courses numbered 500 and above, excluding MATH 591, MATH 599, MATH 699, ACTSCI 490, or ACTSCI 599.

**Total Credits** 27

## Additional Requirements

- Note that MATH 381 is not open for credit in the Mathematics major.
- Actuarial Science majors wishing to complete Math as a second major must take 9 cr of upper div Math/MthStat courses beyond the major requirements of Actuarial Science.
- Students completing an AMCS degree who wish to add Mathematics as a second major must take 9 cr of additional upper division Math/MthStat/ActSci courses beyond those used to fulfill the AMCS degree Math/MthStat/ActSci requirements.
- Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM.
- The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including transfer work.

## Recommendations

Mathematics courses fall naturally into the following groups (see below for individual courses):

1. Applied Mathematics
2. Computational Mathematics
3. Probability and Statistics
4. Pure Mathematics

*For students planning to pursue graduate studies in mathematics, we recommend students take at least 36 cr upper division mathematics courses, with as many courses as possible from Pure Mathematics, Group 1. Many PhD programs require reading knowledge of French, German, or Russian.*

*For students planning to pursue graduate studies in statistics or economics, we recommend MATH 523, MATH 524, and as many as possible of MTHSTAT 361, MTHSTAT 362, and MTHSTAT 562-MTHSTAT 568.*

*For students seeking employment in statistics after the bachelor's degree, we recommend MTHSTAT 361, MTHSTAT 362, and as many as possible of MTHSTAT 562-MTHSTAT 568, as well as courses in computer programming (COMPSCI 250, COMPSCI 251, etc.).*

*For students seeking general non-academic employment after the bachelor's degree, we recommend courses from the Probability and Statistics group (including MTHSTAT 362), the Applied Mathematics group (including both modeling and differential equations), the Computational*

*Mathematics group, Linear Algebra (MATH 535), and courses in computer programming (COMPSCI 240, COMPSCI 250, COMPSCI 251, etc.).*

*For students intending to become high school mathematics teachers, we recommend courses in algebra (MATH 431, MATH 531), geometry (MATH 451), linear algebra (MATH 535), numerical methods (MATH 413), advanced calculus (MATH 523, MATH 524), the math education capstone (MATH 575), and probability and statistics (MTHSTAT 361 & MTHSTAT 362).*

*For students pursuing a major in mathematics as a liberal art, for general logical and critical thinking skills, we recommend the Pure Mathematics courses.*

## Mathematics Groups

### Applied Mathematics

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MATH 305	Introduction to Mathematical and Computational Modeling	3
MATH 320	Introduction to Differential Equations	3
MATH 322	Introduction to Partial Differential Equations	3
MATH 325	Vector Analysis	3
MATH 405	Mathematical Models and Applications	3
MATH 431	Modern Algebra with Applications	3
MATH 603	Advanced Engineering Mathematics I	3
MATH 604	Advanced Engineering Mathematics II	3

### Computational Mathematics

Code	Title	Credits
MATH 313	Linear Programming and Optimization	3
MATH 315	Mathematical Programming and Optimization	3
MATH 413	Introduction to Numerical Analysis	3
MATH 415	Introduction to Scientific Computing	3
MATH 417	Computational Linear Algebra	3
MATH 610	Numerical Solution of Partial Differential Equations	3
MATH 617	Optimization	3

### Probability and Statistics

Code	Title	Credits
MATH 583	Introduction to Probability Models	3
MTHSTAT 361	Introduction to Mathematical Statistics I	3
MTHSTAT 362	Introduction to Mathematical Statistics II	3
MTHSTAT 562	Design of Experiments	3
MTHSTAT 563	Regression Analysis	3
MTHSTAT 564	Time Series Analysis	3
MTHSTAT 565	Nonparametric Statistics	3
MTHSTAT 566	Computational Statistics	3
MTHSTAT 568	Multivariate Statistical Analysis	3

### Pure Mathematics

Code	Title	Credits
MATH 523	Advanced Calculus I	3
MATH 524	Advanced Calculus II	3

MATH 531	Modern Algebra	3
MATH 535	Linear Algebra	3
MATH 551	Elementary Topology	3
MATH 623	Introduction to Analysis I	3
MATH 624	Introduction to Analysis II	3
MATH 635	Modern Algebra I	3
MATH 636	Modern Algebra II	3
MATH 451	Axiomatic Geometry	3
MATH 511	Symbolic Logic	3
MATH 537	Number Theory	3
MATH 553	Differential Geometry	3

## Mathematics Advising

Students considering a major in the Department of Mathematical Sciences need to come to the department to declare their major and be assigned a faculty advisor. All courses selected for the major must be approved by the advisor, and students should check regularly with their advisors to plan their courses of study in a coherent and timely fashion.

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## Honors in the Major

Students in Mathematics who meet all of the following criteria can be awarded honors in the major upon graduation:

1. A 3.000 cumulative GPA in all UWM graded credits;
2. A 3.500 GPA over all UWM courses counting toward the Mathematics major;
3. A 3.500 GPA over all upper-division UWM courses counting toward the Mathematics major; and
4. At least one of the following:
  - Successful completion of at least two semesters of research and/or internship experiences. These may include one or more of the Capstone Experience (MATH 599 or ACTSCI 599), a directed independent study for credit (MATH 699), an internship for credit (MATH 489 or ACTSCI 590), and undergraduate research for compensation.
  - Successful completion of at least 6 credits in Mathematical Sciences (curricular areas Math, MthStat or ActSci) courses numbered 600 or above.
  - A score of at least the 50th percentile on the Math Subject GRE.

Students who believe they may qualify for honors in Mathematics should apply to the Mathematical Sciences Department during their last semester of study.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

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## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Mathematics, Minor

Mathematics is the international language of science and technology. Much of the subject matter in engineering and the natural sciences,

as well as some social sciences such as economics, is presented in mathematical terms. Mathematical and statistical techniques are vital in fields that usually are not considered mathematical, such as biology, psychology, and political science.

Some students come to mathematical sciences with the intention of teaching in high school or college or pursuing research in mathematics. Some are attracted to mathematics for its own sake, for the beauty, discipline, logic, and problem-solving challenges. Other students pursue mathematics in order to achieve deeper understanding in their own areas of study.

Many students assume that most math majors become teachers. While many do, there are many other opportunities for math majors. The United States National Security Agency is the largest employer of math majors in the country. Math majors will also be found at NASA; in engineering firms; at insurance and risk management firms; in robotics and computer science companies; at large and small corporations working in market research, data management and web management; at social media start ups and established firms like YouTube; and any place that needs to make decisions based on numerical facts.

Most mathematics courses belong in one of the following four groups: applied mathematics, computational mathematics, pure mathematics, and statistics.

- Applied Mathematics is a discipline using mathematical analysis to solve problems coming from outside the field of mathematics.
- Computational mathematics is closely related to applied mathematics. It emphasizes techniques of scientific computing and other computational analysis.
- Pure mathematics emphasizes the theory and structure underlying all areas of mathematics.
- Statistics is a field of mathematics that provides strategies and tools for using data to gain insight into real-world and experimental problems.

Students of the sciences, engineering, computer science, economics, and business often complete a significant number of mathematical sciences credits. These students are encouraged to take a mathematics major or minor, which adds an official recognition of important analytical skills valued by employers and graduate schools.

## Requirements

Students minoring in mathematics must complete 18 credits in mathematical sciences (curricular areas Math and MthStat and ActSci) courses numbered 200 and above, of which 9 credits must be upper-division (numbered 300 and above) courses taken in residence at UWM.

The minor in mathematics is not available to students pursuing the Actuarial Science major, the Applied Math and Computer Science degree, or the Bachelor of Science in Data Science. Students who wish to complete both a minor in mathematics and Actuarial Science must complete at least an additional 6 credits of upper division courses in Math/Mthstat/ActSci courses not required by the Actuarial Science minor.

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, student must attain a 2.0 GPA on all minor credits attempted, including any transfer work. The minor is available as a post-baccalaureate option for students who have graduated.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Mathematics, MS

### Mathematics MS: Standard Option (Option A).

The Requirements tab in this section of the catalog lists the requirements for the standard mathematics option for the master's degree in mathematics.

### Overview of all Mathematical Sciences Department MS programs

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, and actuarial science.

The programs of study at the master's level are designed to suit both the student intending to continue toward a PhD as well as the student who wishes to begin a professional career upon completion of the master's program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Three options for the master's degree are offered: the standard mathematics option (A), the statistics option (B), and the actuarial science option (C). Students who plan to continue for a PhD degree with a focus on mathematics/statistics should elect an option from options A, B, C, or the dual master's degree option.

### Dual Master's Degree Option

In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master's Degree Program in Mathematics. The students enrolled in this program will be able to earn Master's degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page <http://uwm.edu/math/graduate/>.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Application materials require a Reason Statement.
2. Completion of three semesters of undergraduate calculus.
3. At least 18 credits of acceptable undergraduate preparation beyond calculus.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

Minimum degree requirement is 30 or 36 credits, depending upon which option the student chooses.

In either option, at least half of the credits earned toward the degree must be in courses numbered 700 or above.

### 30-credit option:

Code	Title	Credits
21 credits from Math and MthStat courses		21
Minimum 12 credits numbered 800 or above		
Up to 9 credits of approved coursework outside the department		9
<b>Total Credits</b>		<b>30</b>

### 36-credit option:

Code	Title	Credits
24 credits from Math and MthStat courses		24
Maximum of 12 credits numbered 499 or below		
Up to 12 credits of approved coursework outside the department		12
<b>Total Credits</b>		<b>36</b>

## Thesis

A thesis is optional. A student choosing the thesis option must enroll in **MATH 890**. A maximum of 3 credits of thesis may be counted toward the degree requirements. An acceptable thesis will represent an original contribution and may involve applications, a novel exposition, or computational aspects of a mathematical problem or theory. The student must pass an oral defense of the thesis.

## Examination or Project

Each student who does not elect the thesis option must satisfy one of the following requirements:

1. Pass a written comprehensive examination.
2. Present a satisfactory oral and written report on a comprehensive project done under the supervision of a faculty advisor.

The project option is open only to students who complete the 36-credit graduation requirement. Students electing the project should register for 1 to 3 credits of **MATH 891**. Students planning to continue for a PhD should select the written comprehensive examination option.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The entering graduate student is assigned a temporary advisor by the Associate Chair for Graduate Programs.

### Time Limit

Under the 30-credit option, the student must complete all degree requirements within five years of initial enrollment. Under the 36-credit option, the student must complete all degree requirements within seven years of initial enrollment.

### Dual Master's Degree Option

In addition to multiple options available for the MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany, have recently created a Dual Master's Degree Program in Mathematics. The students enrolled in this program will be able to earn Master's degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page (<http://uwm.edu/math/graduate/>).

## Mathematics, MS: Actuarial Science

### Objective of Mathematics MS: Actuarial Science (Option C)

The program provides a mathematically rigorous education in actuarial science, prepares students for actuarial professional exams, and develops their economics and business reasoning skills. Students obtain thorough knowledge in the fundamentals of actuarial science such

as applied probability models, applied statistics, credibility, financial economics, life contingencies, loss models, and risk theory. Emphasis is placed on developing skills that are highly valued by employers and thus are essential for a successful career as actuary. This program is intended for students who will seek employment as an actuary upon completion of the degree. Those interested in entering the department’s Ph.D. program should consider a different Master’s option.

## Overview of Mathematical Sciences Department MS programs

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, and actuarial science.

The programs of study at the master’s level are designed to suit both the student intending to continue toward a PhD as well as the student who wishes to begin a professional career upon completion of the master’s program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Three options for the master’s degree are offered: the standard mathematics option (A), the statistics option (B), and the actuarial science option (C). Students who plan to continue for a PhD degree with a focus on mathematics/statistics should elect an option from options A, B, C, or the dual master’s degree option.

### Dual Master’s Degree Option

In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master’s Degree Program in Mathematics. The students enrolled in this program will be able to earn Master’s degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page <http://uwm.edu/math/graduate/>.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students with undergraduate degrees in mathematics, statistics, actuarial science, economics or a related area are eligible for admission. Applicants should have a strong mathematical background that includes three semesters of calculus, linear algebra, probability, and mathematical

statistics. Students lacking this background may be admitted provided that the deficiencies amount to no more than two courses. Although not required, having one actuarial professional exam passed would be an asset.

## Credits and Courses

The minimum degree requirement is 33 credits. In order to graduate, the following requirements must be completed:

Code	Title	Credits
The following 24 credits:		
ACTSCI 791	Investment Mathematics II	3
ACTSCI 793	Actuarial Models I	3
ACTSCI 794	Actuarial Models II	3
ACTSCI 796	Actuarial Statistics I	3
ACTSCI 797	Actuarial Statistics II	3
MTHSTAT 763	Regression Analysis	3
MTHSTAT 764	Time Series Analysis	3
MTHSTAT 768	Multivariate Statistical Analysis	3
One of the following two courses:		
ACTSCI 891	Actuarial Risk Theory	
ACTSCI 895	Topics in Actuarial Science:	
One of the following pairs: 6-8		
MTHSTAT 871 & MTHSTAT 872	Mathematical Statistics I and Mathematical Statistics II	
ECON 701 & ECON 702	Economic Theory: Microeconomics and Economic Theory: Macroeconomics	
BUS ADM 703 & BUSMGMT 705	Financial Accounting and Corporate Finance	
COMPSCI 557G & ACTSCI 790	Introduction to Database Systems and Actuarial Internship	
MATH 783 & MTHSTAT 766	Introduction to Probability Models and Computational Statistics	
<b>Total Credits</b>		<b>33-35</b>

Students who have completed program courses for undergraduate credit should discuss alternative graduate-level courses to substitute for those courses in their programs of study.

### Thesis

A thesis is not required for the actuarial science option. Rather, students must pass three departmental written proficiency exams, which are based on the learning objectives of the actuarial professional exams P, FM and one of FAM, ALTAM, ASTAM. Waivers for departmental exams are granted for students who have passed the corresponding professional exams.

### Professional Development

For future advancement in the field of actuarial science, “Validation by Educational Experience” (VEE) credits are required. VEE credits may be earned from the Society of Actuaries (SOA) and Casualty Actuarial Society (CAS) with a grade of B- or better in the following courses:

Code	Title	Credits
MTHSTAT 871	Mathematical Statistics I	3
MTHSTAT 872	Mathematical Statistics II (VEE-Mathematical Statistics)	3

ECON 701	Economic Theory: Microeconomics (VEE-Economics)	4
ECON 702	Economic Theory: Macroeconomics (VEE-Economics)	4
BUS ADM 703	Financial Accounting (VEE-Accounting and Finance)	3
BUSMGMT 705	Corporate Finance (VEE-Accounting and Finance)	3

Courses taken at other universities may be used to meet the VEE requirement of the SOA/CAS.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor, selected from the members of the Actuarial Science Committee, to advise and supervise the student's studies. The entering student is assigned an advisor by the chair of the committee. Before the start of studies, each student in the program must develop a plan of study in consultation with the Committee.

### Time Limit

Full-time students are expected to complete the program in two years. Students must complete all degree requirements within five years of initial enrollment.

## Mathematics, MS: Statistics

### Mathematics MS: Statistics (Option B)

Currently enrolled students have the option of following the old or new requirements. Students entering in **Fall 2014** or later must complete the new requirements.

## Overview of Mathematical Sciences

### Department MS programs

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra, analysis, topology, applied mathematics, probability and statistics, and actuarial science.

The programs of study at the master's level are designed to suit both the student intending to continue toward a PhD as well as the student who wishes to begin a professional career upon completion of the master's program.

The student may prepare for a career in teaching at the secondary or college level and for a career in research in the academic, industrial, government, or business communities.

Three options for the master's degree are offered: the standard mathematics option (A), the statistics option (B), and the actuarial science option (C). Students who plan to continue for a PhD degree with a focus on mathematics/statistics should elect an option from options A, B, C, or the dual master's degree option.

### Dual Master's Degree Option

In addition to multiple options available for MS in mathematics, the Department of Mathematical Sciences at UWM and the Department of Technomathematics of Fachhochschule Aachen (FHA), Germany have recently created a Dual Master's Degree Program in Mathematics.

The students enrolled in this program will be able to earn Master's degrees from both institutions upon completion of the common course requirements.

The program is designed in such a way that students typically will be able to complete all the course requirements within a two-year time period (one year at each institution). Within this program students can choose courses that will allow them to concentrate in the areas of Statistics, Numerical Analysis or General Mathematics. Complete information on the admission policy and graduation requirements, including sample schedules, is available at the Department of Mathematical Sciences web page <http://uwm.edu/math/graduate/>.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following departmental requirements to be considered for admission to the program: completion of three semesters of undergraduate calculus and at least 18 credits of acceptable undergraduate preparation beyond calculus; these credits should include courses on probability and statistics equivalent to the sequence MTHSTAT 361/MTHSTAT 362, and courses on advanced calculus equivalent to the sequence MATH 523/MATH 524.

Applicants with deficiencies in probability and statistics may be admitted to the program but will be required to complete the sequence MTHSTAT 361/MTHSTAT 362. Applicants with calculus deficiencies may also be admitted to the program but will be required to complete the sequence MATH 523G/MATH 524G. Students are expected to make up deficiencies within four enrolled semesters; no course credits earned in making up deficiencies may count toward the degree credit requirement.

The minimum requirement is 30 graduate credits. Students must complete the following:

Code	Title	Credits
Select one of the following:		3-6
MATH 535G	Linear Algebra	
MATH 735 & MATH 736	Modern Algebra I and Modern Algebra II	
Select one of the following		6
MATH 723 & MATH 724	Introduction to Analysis I and Introduction to Analysis II	
MATH 823 & MATH 824	Theory of Functions of a Real Variable I and Theory of Functions of a Real Variable II	
MATH 783	Introduction to Probability Models	3
MTHSTAT 763	Regression Analysis	3
MTHSTAT 764	Time Series Analysis	3
MTHSTAT 871 & MTHSTAT 872	Mathematical Statistics I and Mathematical Statistics II	6

Select at least one other 560 or 760-level MthStat course, such as the following:

MTHSTAT 562G	Design of Experiments	3
MTHSTAT 565G	Nonparametric Statistics	3
MTHSTAT 766	Computational Statistics	3
MTHSTAT 768	Multivariate Statistical Analysis	3

**Total Credits** 27-30

Students who already have taken some of these courses as undergraduates, or equivalent courses at another institution, should choose alternatives from the following list, subject to the advisor's approval:

Code	Title	Credits
MthStat courses numbered 700 or above		
Statistics course offered by the Division of Biostatistics of the Medical College of Wisconsin		
MATH 413G	Introduction to Numerical Analysis	3
MATH 415G	Introduction to Scientific Computing	3
MATH 417G	Computational Linear Algebra	3
MATH 823 & MATH 824	Theory of Functions of a Real Variable I and Theory of Functions of a Real Variable II	6
MATH 827 & MATH 828	Theory of Functions of a Complex Variable I and Theory of Functions of a Complex Variable II	6
MATH 883 & MATH 884	Theory of Probability and Stochastic Calculus and Applications	6
ACTSCI 796 & ACTSCI 797	Actuarial Statistics I and Actuarial Statistics II	6

### Thesis Option

Students have the option of writing a thesis, subject to the advisor's approval. Students who write a thesis are exempt from the Master's Proficiency Exam, and they earn 3 credits toward the degree by enrolling in MATH 890. Students who choose the thesis option must pass an oral defense of the thesis.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. Each entering graduate student is assigned a temporary advisor by the Department Graduate Program Coordinator.

### Master's Proficiency Exam

Students who do not complete the thesis option are required to pass a written comprehensive examination that tests basic knowledge of statistical theory and either mathematical analysis or algebra.

### Time Limit

Students must complete all degree requirements with 5 years of initial enrollment.

## Mathematics, PhD

The Department of Mathematical Sciences offers graduate programs of study in mathematics with specializations in the fields of algebra,

analysis, topology, applied mathematics, probability and statistics, and actuarial science.

A student may prepare for a career in teaching at the secondary or college level, and for a career in research in the academic, industrial, government, or business communities.

The programs of study at the master's level are designed to suit both the student intending to continue toward a PhD, as well as the student who wishes to begin a professional career upon completion of the master's program.

The Department has a vibrant PhD program. Mathematics research specialties available to students include:

- Actuarial Science (<http://uwm.edu/math/research/actuarial-science/>)
- Algebra (<http://uwm.edu/math/research/algebra/>)
- Analysis (<http://uwm.edu/math/research/analysis/>)
- Applied Mathematics (<http://uwm.edu/math/research/applied-mathematics/>)
- Differential Equations (<http://uwm.edu/math/research/differential-equations/>)
- Numerical Analysis (<http://uwm.edu/math/research/numerical-analysis/>)
- Probability (<http://uwm.edu/math/research/probability/>)
- Statistics (<http://uwm.edu/math/research/statistics/>)
- Topology (<http://uwm.edu/math/research/topology/>)

For more details on the Department's research groups and the research interests of its faculty members click here (<http://uwm.edu/math/research/>).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus departmental requirements as given for admission to the master's program. A master's degree is not a prerequisite for admission to this PhD program.

Application materials require a Reason Statement.

### Reapplication

A student who receives the master's degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

## Credits and Courses

Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM. In addition, at least half of the credits earned toward the degree must be in courses numbered 700 or above.

The student, in consultation with the major professor, must select both a primary and a secondary area of specialization. The primary area may be chosen from one of the following seven fields:

## Transcript Designated Concentrations

### Applied Mathematics Field

Code	Title	Credits
	3 Credits in Algebra	3
	6 Credits in Complex Analysis	6
	3 Credits in Real Analysis	3
	12 Credits in Applied Mathematics	12
	3 Credits Outside the Field	3

### Probability and Statistics Field

Code	Title	Credits
	3 Credits in Complex Analysis	3
	6 Credits in Real Analysis	6
	12 Credits in Probability and Statistics	12
	3 Credits in Applied Mathematics	3

### Actuarial Science Field

Code	Title	Credits
	6 Credits in Actuarial Science	6
	6 Credits in Applied Mathematics	6
	6 Credits in Probability and Statistics	6
	6 Credits in Real Analysis	6
	3 Credits in Business or Economics	3

*NOTE:* Admission to this program is limited to students who have made significant progress towards and are close to achieving a professional designation from an internationally recognized actuarial organization.

## Non-Transcript Designated Specializations

### Algebra Field

Code	Title	Credits
	12 Credits in Algebra	12
	3 Credits in Complex Analysis	3
	3 Credits in Real Analysis	3
	3 Credits in Topology	3
	3 Credits in Applied Mathematics	3
	3 Credits Outside the Field	3

### Analysis Field

Code	Title	Credits
	3 Credits in Algebra	3
	6 Credits in Complex Analysis	6
	6 Credits in Real Analysis	6
	3 Credits in Topology	3
	3 Credits in Applied Mathematics	3
	3 Credits Outside the Field	3

### Topology Field

Code	Title	Credits
	3 Credits in Algebra	3
	3 Credits in Complex Analysis	3
	3 Credits in Real Analysis	3

	12 Credits in Topology	12
	3 Credits in Applied Mathematics	3
	3 Credits Outside the Field	3

### Industrial Mathematics Field

Code	Title	Credits
	3 Credits in Algebra or Topology	3
	3 Credits in Complex Analysis	3
	3 Credits in Real Analysis	3
	9 Credits in Applied Mathematics	9
	6 Credits in Probability and Statistics	6
	6 Credits in Approved Credits Outside Math and MthStat	6

The secondary area may be chosen from another of these fields or may be chosen from another appropriate department. Minimum course requirements for all work in both areas of specialization require approximately two full years of study.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The entering graduate student is assigned a temporary advisor by the Department Graduate Program Coordinator.

### Computer Proficiency

The student shall pass an examination on a higher programming language and/or other appropriate advanced computer skills; the examinations are administered by the Department's Computer Committee. The Computer Committee may accept advanced computer science coursework in lieu of the examination.

### Residence

The student must meet minimum Graduate School residence requirements.

### Doctoral Preliminary Examination

When the student is sufficiently prepared — normally when the student has earned 24 credits in specified areas above the 800 level — a doctoral preliminary examination to determine the student's knowledge and achievement is taken. For students in mathematics, the exam evaluates the student's general knowledge of mathematics, as well as the student's knowledge of the major area of concentration. Students must pass this examination to continue in the program. With permission of the examination committee, the student may repeat this examination once. If the student does not have a master's degree in mathematics before this examination, the committee will determine whether the student's performance is sufficient to qualify for the master's degree.

### Doctoral Dissertation Proposal Hearing

After passing the language requirements and the doctoral preliminary examination, the student participates in a doctoral dissertation proposal hearing. At this hearing, the student is examined on the student's chosen area of research and a dissertation topic is approved.

### Dissertation

The primary requirement for the PhD in mathematics is the candidate's completion, under the supervision of the Department advisor, of an original and significant mathematical investigation presented in the



form of a dissertation. The investigation is to be in the field of algebra, analysis, applied mathematics, probability and statistics, topology, or actuarial science. A dissertation for the industrial mathematics field must involve an industrial problem requiring a mathematical solution.

### Dissertation Defense

The candidate must, as the final step toward the degree, present a colloquium based on the dissertation and must pass an oral examination in defense of the dissertation. If the candidate does not successfully defend a thesis within five years of admission to candidacy, the candidate may be required to take another doctoral preliminary examination and be readmitted to candidacy.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program. Note that students seeking the PhD are limited to a maximum of seven years, inclusive of time spent in pursuit of an initial MS degree, of departmental financial support.

### Minor Area for Other PhD Majors

A doctoral student planning a physical science major other than mathematics may fulfill requirements for mathematics as the minor area of concentration by completing 12 credits of approved mathematics courses with a grade of B or better, at least 6 credits of which must be in courses 800 or above.

A doctoral student planning a non-physical science major may fulfill requirements for mathematics as the minor area of concentration by completing 12 credits with a grade of B or better in approved mathematics courses 300 or above.

For additional information on the PhD, see the Graduate School Doctoral Requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>) page.

## Middle Eastern and North African Studies, Undergraduate Certificate

The Undergraduate Certificate in Middle Eastern and North African Studies (MENA) provides students with a thorough understanding of the languages, cultures, history, and societies of the region.

The Middle East has long played a critical role in global economics and politics. Often portrayed by the media as a place of endless conflict, the Middle East is incredibly complex and made up of numerous nations, each with its own political, religious, geographic, and economic structure and traditions. Student in the MENA certificate program explore this complex region by studying the area's literature, languages, history, politics, religion, and art.

The certificate may be of particular interest to students who plan to enter government service or global business, and complements a number of different majors including history, religious studies, political science, economics, business, geography, foreign languages, and anthropology. The program requires one year of either Arabic or Hebrew language courses.

Many students participate in a study abroad (<http://uwm.edu/cie/study-abroad/>) experience to build on their classroom learning.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

### Eligibility

The Undergraduate Certificate in Middle Eastern and North African Studies is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as a non-degree student, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and non-degree students receive the certificate upon completion of the program requirements. All students are required to complete an exit survey before the certificate is awarded.

### Requirements

The program requires one year of Arabic or Hebrew language courses and a historical survey course. Upper-level courses offer students the opportunity to explore Middle Eastern literature, history, politics, religion, and art in greater depth. Courses totaling 23 credits must be completed with a GPA of 2.750 or better. At least one half of the work for the certificate must be taken at UWM. The Committee for Middle Eastern and North African Studies administers the program and advises students.

In addition to taking courses related to the Middle East and North Africa, students have opportunities to meet and study with Middle Eastern scholars who regularly visit UWM through a number of institutional partnerships with Middle Eastern universities. Students also may take advantage of study abroad programs that offer credit for academic work in the Middle East and North Africa.

Following are the detailed requirements for the certificate. For the specific content and prerequisites of each course, click on the subject code and course number below.

Code	Title	Credits
<b>Middle Eastern Language Sequence</b>		
Select one of the following sequences:		8
ARABIC 101 & ARABIC 102	First Semester Arabic and Second Semester Arabic	
HEBREW 101 & HEBREW 102	First Semester Hebrew and Second Semester Hebrew	
<b>Survey</b>		
Select one of the following:		3
HIST 280	Islamic Civilization: The Formative Period, ca. 500-1258	
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	
<b>Electives</b>		
Select 12 credits		12
<b>Total Credits</b>		<b>23</b>

### Electives

At least 12 additional credits selected from the approved electives list, of which at least 9 must be at the 300 level or above. Students must include

among their credits selected for section III at least one course in Hebrew studies and one course in Arabic studies.

Code	Title	Credits
ANTHRO 641	Seminar in Anthropology: (with appropriate subtitle)	3
ARABIC 111	Cultures and Civilizations of the Muslim Middle East	3
ARABIC 201	Third Semester Arabic	5
ARABIC 202	Fourth Semester Arabic	5
ARABIC 299	Ad Hoc: (with appropriate subtitle)	1-6
ARABIC 301	Fifth Semester Arabic	3
ARABIC 302	Sixth Semester Arabic	3
ARABIC 390	Islam: Religion and Culture	3
ARABIC 499	Ad Hoc: (with appropriate subtitle)	1-6
ARTHIST 315	Art and Archaeology of Ancient Egypt	3
ARTHIST 324	Early Christian and Byzantine Art and Architecture	3
ARTHIST 327	Caliphs, Emirs, & Kings: Art & Architecture of Medieval Spain	3
CLASSIC/HIST 274	Ancient Egyptian Civilization	3
CLASSIC 390	Egyptian Mythology	3
ENGLISH 247	Literature and Human Experience: (with appropriate subtitle)	3
FRENCH 357	Literature of the French-Speaking World in Translation: (with appropriate subtitle)	3
FRENCH 431	Seminar in Literature of the Francophone World: (with appropriate subtitle)	3
FRENCH 432	Seminar in French and Francophone Cultures: (with appropriate subtitle)	1-3
HEBREW 201	Third-Semester Hebrew	4
HEBREW 202	Fourth-Semester Hebrew	4
HEBREW 301	Modern Hebrew Literature I in Hebrew	3
HEBREW 302	Modern Hebrew Literature II in Hebrew	3
HIST 280	Islamic Civilization: The Formative Period, ca. 500-1258 <sup>1</sup>	3
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries <sup>1</sup>	3
HIST 319	The Era of the Crusades	3
HIST 370	Topics in the History of Religious Thought: (with appropriate subtitle, e.g., "Judaism in the Ancient World")	3
HIST 386	Africans in World History: Communities, Cultures, and Ideas	3

HIST 387	Colonization in Africa: A History of Resistance and Adaptation	3
HIST 401	Topics in Middle Eastern History:	3
HIST 600	Seminar in History: (with appropriate subtitle)	3
INTLST 450	Internship in International Studies (with appropriate subtitle)	2-6
INTLST 550	Senior Seminar in International Studies: (with appropriate subtitle)	3
JEWISH 231	Introduction to the Old Testament/ Hebrew Bible	3
JEWISH 235	The Dead Sea Scrolls and the Bible	3
JEWISH 261	Representing the Holocaust in Words and Images	3
JEWISH 321	The Holocaust and the Politics of Memory	3
JEWISH 332	Women in the Bible	3
JEWISH 368	Jewish and Christian Responses to the Holocaust	3
PHILOS 461	Islamic Philosophy and Mysticism	3
POL SCI 329	African Politics	3
POL SCI 371	Nationalism and Ethnic Conflict	3

<sup>1</sup> If not taken above.

## Philosophy

A problem may be called "philosophical" when it has depth and universality, far-reaching theoretical ramifications, human importance, and no easy solution. Philosophical problems constitute the subject matter of philosophy.

Academic courses in philosophy have the value of introducing the crucial problems in a systematic way, exposing students to fruitful methods for attacking them, to models of solid, hard-hitting argumentation, and to a literature ranging from Plato's Dialogues to current professional journals. The relevance of philosophy is nowhere better exhibited than in the distinctions ignored, the arguments overlooked, and the errors repeated by persons unfamiliar with that literature.

## Programs

- Ethics, Values, and Society (CEVS), Undergraduate Certificate (p. 1219)
- Philosophy, BA (p. 1220)
- Philosophy, MA (p. 1224)
- Philosophy, Minor (p. 1226)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Margaret L. Atherton	Distinguished Professor	PhD			✓
Miren Boehm	Associate Professor	PhD	University of California-Irvine	✓	
William Bristow	Associate Professor	PhD	Harvard University	✓	
Peter van Elswyk	Associate Professor	PhD	Rutgers University	✓	
Bernard L. Gendron	Professor	PhD			✓

Carl G. Hedman	Professor	PhD			✓
Stanislaus Husi	Associate Professor	PhD	Rice University		✓
John L. Koethe	Distinguished Professor	PhD			✓
Stephen Leeds	Distinguished Professor	PhD			✓
Michael N. Liston	Associate Professor	PhD	University of California-San Diego		✓
Walter G. Neevel Jr.	Professor	PhD			✓
Blain Neufeld	Associate Professor	PhD	University of Michigan-Ann Arbor		✓
Nataliya Palatnik	Assistant Professor	PhD	Harvard University		✓
Robert A. Schwartz	Distinguished Professor	PhD			✓
Julius O. Sensat	Professor	PhD			✓
Joshua Spencer	Associate Professor	PhD	University of Rochester		✓
Richard Tierney	Associate Professor	PhD	Columbia University		✓
Raymond L. Weiss	Professor	PhD			✓

## Ethics, Values, and Society (CEVS), Undergraduate Certificate

The Undergraduate Certificate in Ethics, Values, and Society (CEVS) is an academic program for undergraduates to explore questions about ethics, politics, and social justice across topics and subject areas. We believe that ethics and values are an integral part of every major and discipline. In particular, the Certificate enables students to combine more practical and applied inquiries into ethical and social/political issues (perhaps pursued in the student’s major) with grounding in the theoretical foundations of such inquiries.

The grounding in the main theories of ethics and political philosophy provided in the Foundational Philosophy Courses in the Certificate will add depth and richness to the student’s studies in other, more applied and content-specific classes.

Certificate courses are organized around five themes with which most of the courses can be associated. Students are encouraged (not required) to select their Certificate courses with a thematic focus in mind:

- Institutions:** This theme concerns questions of ethics and justice in political, economic, legal, educational, and other institutions. Issues regarding international justice and human rights are also covered by this theme.
- Culture and Identity:** This theme explores and critiques conceptions of ethics and justice in relation to issues of culture and identity, including issues concerning class, race, gender, and sexual orientation.
- Environment:** This theme covers the just distribution and use of environmental resources, as well as the ethical treatment of non-human animals.
- Health:** This theme covers the just distribution and use of health resources, problems in bioethics, and related issues.
- Information Ethics:** This theme examines ethical issues regarding media and the use of information technology.

### Eligibility

The Undergraduate Certificate in Ethics, Values, and Society is meant to enhance a bachelor’s degree. The certificate is available to all students seeking a bachelor’s degree from UWM and to students who previously have received a bachelor’s degree from UWM or any other accredited college or university. Students currently involved in baccalaureate studies

who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor’s degree will receive the certificate upon completion of the program requirements.

### Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits (at least 6 courses) in approved CEVS courses, of which at least 12 credits must be in Letters and Science courses, with 6 of those at the 300 level or above. At least 12 credits must be earned in residence at UWM, and at least 9 of the credits taken in residence must be at the 300 level or above. No more than 12 credits from any one department may count toward the certificate. Courses for the certificate may not be taken on a credit/no credit bases. The following are required:

Code	Title	Credits
<b>Philosophy Foundation</b>		
<i>Ethics</i>		
Select one of the following:		3
PHILOS 241	Introductory Ethics	
PHILOS 341	Modern Ethical Theories	
PHILOS 349	Great Moral Philosophers	
<i>Social/Political Philosophy</i>		
Select one of the following:		3
PHILOS 242	Introduction to Social and Political Philosophy	
PHILOS 355	Political Philosophy	
PHILOS 384	The Philosophy of Law	
<b>Electives</b>		
Select 9 credits (at least 3 courses)		9
<b>Capstone</b>		
Select 3 credits in a 500-600 level undergraduate seminar <sup>1</sup>		3
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> The capstone requirement is fulfilled through a 500-600 level undergraduate seminar focused on issues of ethics, value, and/or social justice. An appropriate seminar will be offered in the Philosophy Department at least once per academic year.

## Electives

Select from among the following courses that focus substantially on themes of ethics, value, justice, and the like.

Code	Title	Credits
AFRIC 261	Survey of African-American Political Philosophy	3
AFRIC 265	Psychological Effects of Racism	3
AFRIC 329	Economic Growth and Sustainable Development in Africa	3
AFRIC 341	Black Politics and City Government	3
AFRIC 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
AFRIC 416	Race and Social Justice in the United States	3
ANTHRO 440	Medical Anthropology	3
ANTHRO 104	Lifeways in Different Cultures: A Survey of World Societies	3
COMPLIT 230	Literature and Society: (with appropriate subtitle)	3
COMPLIT 232	Literature and Politics: (with appropriate subtitle)	3
COMPLIT 309	Great Works of Modern Literature: (with appropriate subtitle)	3
COMPLIT 350	Topics in Comparative Literature: (with appropriate subtitle)	3
COMPLIT 360	Seminar in Literature and Cultural Experience: (with appropriate subtitle)	3
COMPLIT 464	Seminar in Comparative Literary Criticism:	3
ECON 328	Environmental Economics	3
GEOG 309	Nationalities and Nations of the World	3
GEOG 464	Environmental Problems	3
GEOG 564	Urban Environmental Change and Social Justice	3
GLOBAL 361	Environment and Sustainability	3
INFOST 120	Information Technology Ethics	3
INFOST 661	Information Ethics	3
ITALIAN 258	Contemporary Italian Society and Culture	3
ITALIAN 357	Topics in Italian Culture in Translation: (with appropriate subtitle)	3
JAMS 461	Media Ethics	3
JEWISH 261	Representing the Holocaust in Words and Images	3
JEWISH 321	The Holocaust and the Politics of Memory	3
JEWISH 368	Jewish and Christian Responses to the Holocaust	3
JEWISH 449	Modern Jewish Thought	3
PHILOS 235	Philosophical Aspects of Feminism	3
PHILOS 237	Technology, Values, and Society	3
PHILOS 243	Moral Problems:	1
PHILOS 244	Ethical Issues in Health Care:	3
PHILOS 337	Environmental Ethics	3

PHILOS 435	Existentialism	3
PHILOS 542	Punishment and Responsibility	3
PHILOS 562	Special Topics in Ethics and Social and Political Philosophy:	3
SOCIOL 350	Environmental Sociology	3
TRNSLTN 411	Ethics in Translation and Interpreting	3
WGS 150	Multicultural America	3
WGS 200	Introduction to Women's and Gender Studies: A Social Science Perspective	3
WGS 201	Introduction to Women's and Gender Studies: A Humanities Perspective	3
WGS 301	Queer Theory	3
WGS 302	Gendered Bodies:	3
WGS 303	Feminist Activism and Movements:	3
WGS 401	Global Feminisms	3
WGS 410	Feminist Theory	3

## Philosophy, BA

The study of philosophy can be challenging because it asks students to critically examine very fundamental questions about what it means to be human - behavior, values, ethics, logic, aesthetics. Some describe it as "thinking in slow motion" because of the way it explores in depth the human experience.

Students choose philosophy because it instills a lifelong love and quest for knowledge, it imparts a disciplined and systematic way of thinking, and it enhances critical and analytical capacities. Most graduates of philosophy describe the great personal reward that comes from exploring the great thinkers of the past in the context of modern issues. But, they also passionately value the career skills that they developed - how to read and comprehend difficult text; how to understand different interpretations of information and assess opposing viewpoints; how to craft a clear and logical position on an issue in writing and orally; and how to make connections between smaller, seemingly disparate details and the big picture.

By mid-career, philosophy majors outearn business majors, on average, largely because their knowledge and skills make them excellent leaders in business, nonprofit, law, government work, education, and more.

The undergraduate program is relatively small, resulting in more one-on-one attention from faculty than might be found at another university.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
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### Oral and Written Communication

#### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)	
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#### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits	3
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### Humanities

Select 6 credits	6
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### Social Sciences

Select 6 credits	6
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### Natural Sciences

Select 6 credits (at least two courses including one lab)	6
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### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	

BIO SCI 465	Biostatistics
ECON 210	Economic Statistics
GEOG 247	Quantitative Analysis in Geography
HIST 595	The Quantitative Analysis of Historical Data
MTHSTAT 215	Elementary Statistical Analysis
PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is *NOT* the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Philosophy Major Requirements

At UWM, incoming freshmen interested in studying philosophy are advised to begin with the general introductory course, PHILOS 101, though there are several courses, especially at the 200 level, that are open to students without a background in philosophy. The 300 level includes courses designed to provide more in-depth treatments of traditional philosophical areas. Courses at the 400 level are devoted to the history

of philosophy. Courses at the 500 level deal with specific issues and problems.

The College of Letters & Science requires that students complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. Students also must attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, they must attain a 2.0 GPA on all major credits attempted, including any transfer work.

Students must fulfill the capstone/research requirement in the senior year. It is recommended strongly that students become proficient in at least one related academic discipline. Each major will be asked to submit a paper for inclusion in a portfolio that is kept in the department. Typically, this will be a paper written for PHILOS 685. It should be stressed that this is not an additional requirement for graduation as a major. Rather, it is part of the department's ongoing effort to evaluate and improve our major program.

A minimum of 30 credits in philosophy is required.

Code	Title	Credits
<b>Required Courses</b>		
PHILOS 211	Elementary Logic <sup>1</sup>	3
PHILOS 430	Great Thinkers of the Ancient Period	3
Select one of the following:		3
PHILOS 431	History of Medieval Philosophy	
PHILOS 432	Great Thinkers of the Modern Period	
PHILOS 433	Nineteenth-Century Philosophers	
Select one of the following:		3
PHILOS 337	Environmental Ethics	
PHILOS 341	Modern Ethical Theories	
PHILOS 349	Great Moral Philosophers	
PHILOS 355	Political Philosophy	
PHILOS 384	The Philosophy of Law	
Select one of the following:		3
PHILOS 303	Mind and Knowledge	
PHILOS 304	Buddhist Philosophy	
PHILOS 317	Metaphysics	
PHILOS 324	Philosophy of Science	
PHILOS 351	Philosophy of Mind	
PHILOS 358	Action, Will, and Freedom	
Select any philosophy course numbered 500 or above (excluding the course you choose to satisfy the capstone requirement)		3
<b>Electives</b>		
Select 9 credits of philosophy electives		9
<b>Capstone/Research Requirement</b>		
Select one of the following:		3
PHILOS 681	Seminar in Advanced Topics:	
PHILOS 685	Senior Capstone Research Seminar.	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> PHILOS 212, or a more advanced course in logic may be substituted for PHILOS 211 with the permission of the department chair.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Philosophy majors who maintain a minimum of 3.000 in all courses attempted at UWM, a 3.500 GPA in courses in the major, as well as a 3.500 GPA in all advanced courses in the major, will be awarded with honors in philosophy at graduation.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Philosophy, MA

The Department of Philosophy offers a program of graduate study leading to the degree of Master of Arts. The general purpose of this program is to provide students with the background and stimulus for critical and original philosophical thoughts. The program is designed to serve both those students who wish to pursue a Doctor of Philosophy degree in philosophy and those students who wish either to terminate their formal philosophical studies with the Master of Arts degree or to integrate a graduate level of study in philosophy with graduate studies in other academic areas.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

- Undergraduate major in philosophy or other academic background judged suitable by the Department.
- Three letters of recommendation concerning academic qualifications.
- A Reason Statement explaining why you are interested in completing an MA in Philosophy (recommended length 250 - 500 words).
- A sample of written work.
- Submission of scores on the General Test of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) is **optional**.
- **Language and Linguistics Concentration only:** LINGUIS 464 or an equivalent.

## Credits and Courses

### History Requirement

Students taking Option A or B will be required to demonstrate competence in history of philosophy by passing the following two courses with a grade of B or better.

Code	Title	Credits
PHILOS 430	Great Thinkers of the Ancient Period	3
PHILOS 432	Great Thinkers of the Modern Period	3

The Graduate Studies Committee may certify competence if the student has as an undergraduate taken PHILOS 430 and PHILOS 432 at UWM within the past five years or has taken their equivalent as determined by the Committee. The determination may include an equivalency exam.

Students selecting the language and linguistics concentration need only meet the requirement for PHILOS 432.

### Logic Requirement

The student is required to demonstrate competence in logic by passing with a grade of B or better.

Code	Title	Credits
PHILOS 511	Symbolic Logic	3
PHILOS 712	Fundamentals of Formal Logic	3

The Graduate Committee may certify competence if within the last five years the student has taken PHILOS 511 or PHILOS 712 or has taken an equivalent course as determined by the Committee. The determination may include an equivalency exam.

### Degree Alternatives

The Department of Philosophy offers three alternatives by which the Master of Arts degree in philosophy may be obtained: Option A, the non-thesis option; Option B, the thesis option; and a language and linguistics concentration with a thesis. There is no foreign language requirement for the completion of the Master of Arts degree in philosophy, though students are encouraged to develop proficiency in a foreign or classical language.

### Option A: Non-Thesis Option (30 Credits Plus Exam)

Minimum degree requirement is 30 credits in coursework, 21 of which must normally be in philosophy, 9 of which may be in related fields. All 30 credits must be earned with grades of B or better; and at least 12 must be in graduate seminars.

Code	Title	Credits
Courses in philosophy		21
At least 12 credits in graduate seminars <sup>1</sup>		
Related fields		9
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> The Philosophy Department Graduate Studies Committee may permit students to count PHILOS 681 or PHILOS 685 toward meeting this requirement, when the content and level of difficulty are equivalent to that of a graduate seminar.



A student proposing a program of study involving more than 9 credits of independent study, or fewer than 21 credits in philosophy courses, must gain specific approval of the student's advisory committee.

Every student choosing the non-thesis option takes a written exam of no longer than four hours on a philosophical area chosen by the student in consultation with the advisory committee. At least one full semester before the student is to take this exam, a specific list of primary and secondary sources to be covered on the exam is drawn up by the committee together with the student. The committee provides the student with sample questions.

**Option B: Thesis Option (30 Credits Plus Defense)**

Minimum degree requirement is 30 credits in coursework, 21 of which must normally be in philosophy, 9 of which may be in related fields. All 30 credits must be earned with grades of B or better; and at least 12 must be in graduate seminars.

Code	Title	Credits
Courses in philosophy		21
At least 12 credits in graduate seminars <sup>1</sup>		
Related fields		9
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> The Philosophy Department Graduate Studies Committee may permit students to count PHILOS 681 or PHILOS 685 toward meeting this requirement, when the content and level of difficulty are equivalent to that of a graduate seminar.

The thesis is to be written on a philosophical subject chosen in consultation with the student's advisory committee. The student and the committee are to meet sufficiently often so that the committee may adequately supervise the writing of the thesis. Upon completion of the thesis the student is required to defend the thesis orally.

**Language and Linguistics Concentration with Thesis (30 credits Plus Defense)**

Minimum degree requirement is 30 credits, including the writing of a thesis, plus its defense. All 30 credits must be earned with a grade of B or better. Of the 30 credits at least 18 credits must be in philosophy with the remainder in linguistics.

Code	Title	Credits
PHILOS 516	Language and Meaning <sup>1</sup>	3
Other credits in Philosophy		15
LINGUIS 455	Semantics <sup>1</sup>	3
LINGUIS 564	Advanced Syntax <sup>1</sup>	3
Graduate Seminars <sup>2</sup>		6
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> May be waived if the student has taken these courses at UWM within the past five years or has taken their equivalent as determined by the Graduate Studies Committee.

<sup>2</sup> The Philosophy Department Graduate Studies Committee may permit students to count PHILOS 681 or PHILOS 685 towards meeting this requirement, when the content and level of difficulty are equivalent to that of a graduate seminar.

A student proposing a program of study involving more than 9 credits of independent study must gain specific approval of the student's advisory committee.

**Additional Requirements**  
**Major Professor as Advisor**

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. At time of admission, the student's program will be supervised by the Graduate Advisor.

A student planning to work beyond the master's program should select, in consultation with the advisor, courses which will develop broad philosophical competence. A student intending to terminate studies with the master's degree may plan a more specialized program.

**Advisory Committee**

During the first year in attendance, the student chooses an advisor and an advisory committee of three faculty members. The student's advisor serves as chair of this committee. The choice of committee is made in consultation with the student's advisor, and submitted to the Department's Graduate Studies Committee for approval. No later than the second week of the student's second semester in the program, the advisory committee meets with the student to discuss the individual's background in philosophy and goals in this program. By the end of the student's second semester the committee has conferred with the student's instructors and meets with the student to discuss that individual's progress in the program. At that time the student, together with the committee, plans the balance of the student's work in the program and how all requirements can best be met. The committee continues to gather information on the student's class work from the instructors, and at least once each semester meets with the student to discuss the student's continuing progress, future plans in the program and the meeting of departmental requirements. The student may at any time petition the Graduate Studies Committee for a change in the composition of the advisory committee.

**Option A: Non-Thesis Option (30 Credits Plus Exam) Thesis**

Not required.

**Time Limit**

This program is designed to be completed in two years of full-time attendance. However, all 30 degree requirements must be completed within five years of initial enrollment.

**Option B: Thesis Option (30 Credits Plus Defense) Thesis**

Required (as above).

**Time Limit**

This program is designed to be completed in two years of full-time attendance. However, all degree requirements must be completed within five years of initial enrollment.

**Language and Linguistics Concentration with Thesis (30 credits Plus Defense)**

**Thesis**

The thesis is to be written on a language-related subject chosen in consultation with the student's advisory committee. The student and the committee are to meet sufficiently often so that the committee may

adequately supervise the writing of the thesis. Upon completion of the thesis the student is required to defend the thesis orally. PHILOS 990 may be taken only once.

### Time Limit

This program is designed to be completed in two years of full-time attendance. However, all degree requirements must be completed within five years of initial enrollment.

## Philosophy, Minor

The study of Philosophy can be challenging because it asks students to critically examine very fundamental questions about what it means to be human - behavior, values, ethics, logic, aesthetics. Some describe it as "thinking in slow motion" because of the way it explores in depth the human experience.

Students choose philosophy because it instills a lifelong love and quest for knowledge, it imparts a disciplined and systematic way of thinking, and it enhances critical and analytical capacities. Most graduates of philosophy describe the great personal reward that comes from exploring the great thinkers of the past in the context of modern issues. But, they also passionately value the career skills that they developed - how to read and comprehend difficult text; how to understand different interpretations of information and assess opposing viewpoints; how to craft a clear and logical position on an issue in writing and orally; and how to make connections between smaller, seemingly disparate details and the big picture.

The undergraduate program is relatively small, resulting in more one-on-one attention from faculty than might be found at another university.

## Requirements

At UWM, incoming freshmen interested in studying philosophy are advised to begin with the general introductory course, PHILOS 101, though there are several courses, especially at the 200 level, that are open to students without a background in philosophy. The 300 level includes courses designed to provide more in-depth treatments of traditional philosophical areas. Courses at the 400 level are devoted to the history of philosophy. Courses at the 500 level deal with specific issues and problems.

The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. Students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Students wishing to minor in philosophy should consult with the undergraduate program coordinator in order to complete a declaration of minor form and be assigned a departmental advisor.

The minor requires 18 credits in philosophy. Nine credits are required at the 300 level or above, all of which must be taken in residence at UWM.

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Daniel Agterberg	Professor	PhD	University of Toronto	✓	
Donald E. Beck	Professor Emeritus	PhD			✓
Patrick Brady	Professor	PhD	University of Alberta	✓	
Philip Chang	Professor, Chair	PhD	University of California-Santa Barbara	✓	

Code	Title	Credits
<b>Choose one:</b>		<b>3</b>
PHILOS 211	Elementary Logic	
PHILOS 430	Great Thinkers of the Ancient Period	
PHILOS 432	Great Thinkers of the Modern Period	
PHILOS 433	Nineteenth-Century Philosophers	
Select five additional philosophy courses		15
<b>Total Credits</b>		<b>18</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Physics

The principles of physics provide the underpinnings for many of the scientific and technological advances of the last several decades.

Experimental research facilities are available in the areas of condensed matter and biophysics. Theoretical studies are conducted in relativity and cosmology, biophysics, and condensed-matter physics. Observational studies focus on relativistic astrophysics, multi-messenger astronomy, and galaxy evolution. Joint study with other departments can also be arranged.

## Programs

- Physics, BS (p. 1227)
- Physics, Minor (p. 1232)
- Physics, MS (p. 1232)
- Physics, PhD (p. 1234)

Yutze Chow	Professor Emeritus	PhD			✓
Jolien Creighton	Professor	PhD	University of Waterloo-Ontario		✓
Richard H. Dittman	Professor Emeritus	PhD			✓
Dawn Erb	Professor, Associate Chair	PhD	California Institute of Technology		✓
John L. Friedman	Distinguished Professor Emeritus	PhD			✓
Marija Gajardziska-Josifovska	Professor	PhD	Arizona State University		✓
Robert G. Greenler	Professor Emeritus	PhD			✓
Prasenjit Guptasarma	Professor	PhD	University of Bombay, India		✓
Carol Hirschmugl	Professor Emeritus	PhD	Yale University		✓
Ahmad Hosseinizadeh	Assistant Professor	PhD	Laval University		✓
David Kaplan	Professor	PhD	California Institute of Technology		✓
Min Gyu Kim	Assistant Professor	PhD	Iowa State University		✓
Moises Levy	Professor Emeritus	PhD			✓
Paul Lyman	Professor Emeritus	PhD	University of Pennsylvania		✓
Abbas Ourmazd	Distinguished Professor	PhD	Wolfson College, Oxford		✓
Leonard E. Parker	Distinguished Professor Emeritus	PhD			✓
Sarah Patch	Associate Professor	PhD	University of California-Berkeley		✓
Ionel Popa	Associate Professor	PhD	University of Geneva, Switzerland		✓
Valerica Raicu	Professor	PhD	University of Bucharest, Romania		✓
Bimal K. Sarma	Professor Emeritus	PhD			✓
Glenn Schmieg	Professor Emeritus	PhD			✓
Peter Schwander	Professor	PhD	Swiss Federal Institute of Technology Zürich (ETHZ)		✓
Dale R. Snider	Professor Emeritus	PhD			✓
Richard S. Sorbello	Professor Emeritus	PhD			✓
Sarah Vigeland	Assistant Professor	PhD	Massachusetts Institute of Technology		✓
Michael Weinert	Distinguished Professor	PhD	Northwestern University		✓
Alan Wiseman	Associate Professor	PhD	Washington University		✓
Robert Wood	Senior Lecturer, Adjunct Associate Professor Emeritus	PhD	Oxford University		✓

## Physics, BS

Physics is the study of matter and energy and their interactions, both in nature and under man-made conditions. Physics provides both the fundamental foundation for science and technology, and the framework for understanding the world around us and the universe itself.

UWM students can shape their Physics major in one of two directions. The standard major provides a broad overview of all aspects of physics: mechanics, optics, thermodynamics, quantum physics, magnetism, electricity, and the mathematical principles that underlie physics. In the astronomy focused version of the major, students master these basics plus take additional coursework in astrophysics and gravitation.

UWM's program provides excellent preparation for graduate programs in physics, engineering, and math, and can also serve as a springboard to careers in diverse areas, including engineering, business, law, and medicine. All Physics undergraduates are encouraged to get involved in research as early as their freshman year as a means to enhance their education and help diversify their career options.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		

### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)	
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### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		

#### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits 3

### Humanities

Select 6 credits 6

### Social Sciences

Select 6 credits 6

### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to

select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

## Physics Major Requirements

Freshmen who enter with scores of 4 or 5 on the Physics Advanced Placement exam given by CEEB are given partial credit for the introductory courses.

Students who have a combined GPA of 2.500 or above in all mathematics and physics courses taken in the first two years will be approved for a major in physics. This requirement will be waived in those cases where students are able to show evidence of unusual circumstances.

The department offers two study options. The standard physics major is for students who seek a general physics degree. The physics major with astronomy emphasis is for students who wish to pursue their interest in astronomy. While the standard physics major generally is followed by students who plan to go on to graduate school, the major with astronomy emphasis also enables students to pursue graduate work in physics.

Both options require that students take at least 15 credits in advanced-level (numbered 300 and above) courses in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. All students in the College are required to complete a research experience in their majors. Physics majors meet this requirement by successfully completing an upper-level, 3-credit laboratory courses.

### Standard Physics Major

A minimum of 43 credits in physics, including:

Code	Title	Credits
Select one of the following options: <sup>1</sup>		10
Option 1:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
Option 2:		
PHYSICS 219	Physics I: Calculus-Based, Studio Format	
PHYSICS 220	Physics II: Calculus-Based, Studio Format	
PHYSICS 309	Physics III: Modern Physics	3
PHYSICS 317	Thermodynamics	3
PHYSICS 325	Optics	4
PHYSICS 370	Analytical and Numerical Methods in Physics	3
Select one of the following: <sup>2</sup>		3
PHYSICS 406	Introduction to Infrared Microspectroscopy	
PHYSICS 408	Experiments in Linear Electronics	
PHYSICS 409	Modern Physics Laboratory	
PHYSICS 670	Electron Microscopy Laboratory	
PHYSICS 391	Undergraduate Research Participation <sup>3</sup>	
PHYSICS 411	Mechanics	4
PHYSICS 420	Electricity and Magnetism I	3
PHYSICS 422	Electricity and Magnetism II	3
PHYSICS 441	Introduction to Quantum Mechanics I	4
PHYSICS 442	Introduction to Quantum Mechanics II	3
<b>Electives</b>		
Selecting electives are encouraged (see below)		
<b>Total Credits</b>		<b>43</b>

<sup>1</sup> PHYSICS 209/PHYSICS 214 and PHYSICS 210/PHYSICS 215 are strongly recommended; however, PHYSICS 219 and PHYSICS 220 may be substituted.

<sup>2</sup> These courses are **not** offered every semester; check with the undergraduate advisor to plan for completing this requirement.

<sup>3</sup> The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee, and it must demonstrate pedagogical value. Unfocused laboratory internships are not acceptable.

### Electives

No elective courses are required, but students are encouraged to select electives from Physics or Astronomy courses 300 level or above from the following list. Only the courses identified in the list below with the phrase "if not selected above" will be counted in the student's major GPA. Electives may not be offered every semester; check with the undergraduate advisor to plan for completing this requirement.

Code	Title	Credits
ASTRON 400	Astrophysics I	3
ASTRON 401	Astrophysics II	3
PHYSICS 305	Medical Physics	3
PHYSICS 306	Introduction to Biophysics	3

PHYSICS 351	Basics of Condensed Matter Physics	3
PHYSICS 391	Undergraduate Research Participation	1-6
PHYSICS 406	Introduction to Infrared Microspectroscopy (if not selected above)	3
PHYSICS 408	Experiments in Linear Electronics (if not selected above)	3
PHYSICS 409	Modern Physics Laboratory (if not selected above)	3
PHYSICS 501	Special Topics: Mathematical Models of Physical Problems I	3
PHYSICS 515	Statistical Mechanics	3
PHYSICS 517	Special Relativity	3
PHYSICS 531	Principles of Quantum Mechanics I	3
PHYSICS 532	Principles of Quantum Mechanics II	3
PHYSICS 541	Elementary Particles	3
PHYSICS 551	Introduction to Solid State Physics I	3
PHYSICS 651	Introduction to Solid State Physics II	3
PHYSICS 670	Electron Microscopy Laboratory (if not selected above)	3

### Physics Major with Astronomy Emphasis

A minimum of 55 credits in physics and astronomy courses, including:

Code	Title	Credits
<b>Required</b>		
Select one of the following options: <sup>1</sup>		10
Option 1:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
Option 2:		
PHYSICS 219	Physics I: Calculus-Based, Studio Format	
PHYSICS 220	Physics II: Calculus-Based, Studio Format	
PHYSICS 309	Physics III: Modern Physics	3
PHYSICS 325	Optics	4
PHYSICS 317	Thermodynamics	3
PHYSICS 370	Analytical and Numerical Methods in Physics	3
Select one of the following: <sup>2</sup>		3
PHYSICS 406	Introduction to Infrared Microspectroscopy	
PHYSICS 408	Experiments in Linear Electronics	
PHYSICS 409	Modern Physics Laboratory	
PHYSICS 670	Electron Microscopy Laboratory	
PHYSICS 391	Undergraduate Research Participation <sup>3</sup>	
PHYSICS 411	Mechanics	4
PHYSICS 420	Electricity and Magnetism I	3
PHYSICS 422	Electricity and Magnetism II	3
PHYSICS 441	Introduction to Quantum Mechanics I	4
PHYSICS 442	Introduction to Quantum Mechanics II	3
ASTRON 400	Astrophysics I <sup>2</sup>	3

ASTRON 401	Astrophysics II <sup>2</sup>	3
<b>Electives <sup>2</sup></b>		
Select 6 credits from the following: 6		
ASTRON 103 or ASTRON 211	Survey of Astronomy Principles of Astronomy	
ASTRON 175	Cosmic Origins	
ATM SCI 110	The Origin, Composition, and Structure of the Planetary Atmospheres	
GEO SCI 120	Geology of the Planets	
PHYSICS 391	Undergraduate Research Participation	
PHYSICS 501	Special Topics: Mathematical Models of Physical Problems I	
PHYSICS 517	Special Relativity	
PHYSICS 541	Elementary Particles	
Or another course approved by the undergraduate advisor		
<b>Total Credits</b>		<b>55</b>

<sup>1</sup> PHYSICS 209/PHYSICS 214 and PHYSICS 210/PHYSICS 215 are strongly recommended; however, PHYSICS 219 and PHYSICS 220 may be substituted.

<sup>2</sup> These courses are **not** offered every semester; check with the undergraduate advisor to plan for completing this requirement.

<sup>3</sup> The research proposal must be approved by the undergraduate advisor and the Departmental Undergraduate Committee, and it must demonstrate pedagogical value. Unfocused laboratory internships are not acceptable.

### Possible Course Substitutions for Students with Physics and Engineering Double Majors

One of the following courses may be substituted for PHYSICS 370:

Code	Title	Credits
CIV ENG 280	Computer Based Engineering Analysis	3
COMPSCI 240	Introduction to Engineering Programming	3
COMPSCI 250	Introductory Computer Programming	3
MECHENG 101	Computational Tools for Engineers	2

The following course may be substituted for PHYSICS 317:

Code	Title	Credits
MECHENG 301	Basic Engineering Thermodynamics	3

The combination of both of the following may substitute for PHYSICS 411:

Code	Title	Credits
CIV ENG 201	Statics	3
CIV ENG 202	Dynamics	3

Upper level engineering technical electives may be substituted for PHYSICS 325 and independent study/research may be substituted for the 400-level laboratory courses.

### Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different

types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

### Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

### College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

### Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

### Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive

all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Physics, Minor

Physics is the study of matter and energy and their interactions, both in nature and under man-made conditions. Physics provides both the fundamental foundation for science and technology, and the framework for understanding the world around us and the universe itself.

A minor in physics provides an opportunity for students to complement their major course of study. The choice of advanced courses allows a student to gain a deeper understanding in specific areas of physics.

## Requirements

A minor in physics requires 18 credits of Physics courses, of which 9 credits must be in courses at the 300 level or above taken in residence at UWM. The College of Letters & Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. There is latitude in the choice of credits.

- Students majoring in engineering or computer science should consider PHYSICS 325 and PHYSICS 351.
- Science or math education majors should take PHYSICS 317, PHYSICS 325, and ASTRON 400.
- Math majors will find complementary subject matter in PHYSICS 411, (PHYSICS 420 and PHYSICS 422), and PHYSICS 517.

Students are required to consult with the undergraduate physics advisor (physics-ugadvisor@uwm.edu) when planning their minor programs of study.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Physics, MS

The Physics Department exhibits exceptional strength in several areas. We invite applications from able students interested in experimental and theoretical condensed matter physics; in structural biophysics and protein dynamics and function; and in cosmology, relativistic astrophysics, and gravitational-wave/multimessenger astronomy. The primary goal of our graduate education is the training of creative research scientists.

Our research in gravitational physics is in several areas: In gravitational-wave astronomy, we play a leading role in LIGO, extracting signals of gravitational-waves from the coalescence of binary neutron stars and black holes, as well as searching for electromagnetic counterparts, and in the use of pulsars to measure gravitation waves from supermassive black holes. In relativistic astrophysics we have established limits on the spin and mass of rotating neutron stars, and develop computational techniques to model merging stars. Astronomy efforts include studying early galaxy formation and evolution, and the phenomenology of neutron stars and white dwarfs.

Experimental and theoretical work in condensed matter physics is focused on quantum materials, including quantum transport phenomena, superconductivity, magnetism, and novel states of matter.

Experimental work in biophysics includes advanced optical and electrical methods for probing protein-protein interactions and protein complex structure and dynamics in vivo. Other efforts are in structural biophysics, static and time-resolved macromolecular crystallography, and XFEL-based femtosecond crystallography. Molecular biophysics studies include protein mechano-chemistry and single-molecule force spectroscopy.

Theoretical and computational work in biophysics includes advanced algorithms for signal extraction in the presence of extreme noise and timing uncertainty (XFEL and cryo-electron microscopy data) for protein crystallography, biostructure, dynamics, and function.

## Graduate Minor in Physics

A doctoral student in another department wishing to minor in Physics must choose a minor professor from among the Physics Graduate Faculty. The student and the minor professor plan a program of study consisting of 9 to 12 graduate credits in Physics and complete a Graduate Minor Program Plan for the Physics Department files.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Letters of Recommendation. Three letters of recommendation are required from persons familiar with the applicant's academic work.



2. Statement of Purpose. An essential part of your application, the Statement of Purpose is used to determine the appropriateness of your educational and professional goals and serves as an example of your ability to express yourself in writing.
3. Undergraduate major in physics or related fields. Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The GRE is not required for admission. The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

### Option 1: Thesis Option

Minimum degree requirement is 30 graduate credits, 18 of which must normally be in physics and 12 of which may be in related fields. Of the 18 credits earned in the Department, at least 6 must be in physics courses numbered above 700, with the remainder in courses at least above 500; research, seminar, and independent study credits do not satisfy the 700 requirement. Six credits are earned through the thesis.

Code	Title	Credits
Physics Courses		12
At least 6 numbered above 700 *		
Remainder at least above 500		
Physics or Related Fields		12
PHYSICS 890	Master's Thesis **	6
<b>Total Credits</b>		<b>30</b>

\* Not including research, seminar, and independent study

\*\* Only 6 credits of PHYSICS 890 may be counted toward the 30-credit requirement, though a student may enroll in the course more than once and may take more than 6 credits.

### Option 2: Non-Thesis Option

Minimum degree requirement is 30 graduate credits, 18 of which must normally be in physics and 12 of which may be in related fields. Of the 18 credits earned in the Department, at least 6 must be in physics courses numbered above 700, with the remainder in courses at least above 500; research, seminar, and independent study credits do not satisfy the 700 requirement.

Code	Title	Credits
Physics courses		18
At least 6 numbered above 700 *		
Remaining 12 at least above 500		
Related Fields		12
<b>Total Credits</b>		<b>30</b>

\* Not including research, seminar, and independent study

## Comprehensive Examination

The student must pass a thesis defense, pass a comprehensive oral examination, or complete and present an acceptable capstone project. The non-thesis master's comprehensive oral examination should evaluate the student's achievements in graduate courses and fulfillment of the

goals of the student's program of study. In particular, students should be familiar with the materials in the "core" courses:

Code	Title	Credits
PHYSICS 515	Statistical Mechanics	3
PHYSICS 531	Principles of Quantum Mechanics I	3
PHYSICS 532	Principles of Quantum Mechanics II	3
PHYSICS 711	Theoretical Physics-Dynamics	3
PHYSICS 722	Advanced Classical Theoretical Physics	3

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The newly admitted student is assigned to a temporary advisor.

Students in the master's program who are planning to terminate their physics studies with a master's degree should plan and prepare a program of study with the Department Master's Program Advisor.

### Option 1: Thesis Option

#### Thesis

A student choosing the thesis option must enroll in PHYSICS 890. A maximum of 6 credits of thesis may be counted toward the degree requirements.

#### Comprehensive Examination

The student must pass a comprehensive oral examination, in part a defense of the thesis.

#### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

### Option 2: Non-Thesis Option

#### Thesis

Not required.

#### Examination or Project

Each student who does not elect the thesis option must satisfy one of the following capstone requirements:

1. Pass an oral comprehensive examination.
2. Present a satisfactory oral and written report on a comprehensive project done under the supervision of a faculty advisor.

Students electing the project should register for 1 to 3 credits of PHYSICS 891 and must complete this course with a B or better grade in order for the project to meet the capstone requirement.

#### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Physics, PhD

The Physics Department exhibits exceptional strength in several areas. We invite applications from able students interested in experimental and theoretical condensed matter physics; in structural biophysics and protein dynamics and function; and in cosmology, relativistic astrophysics, and gravitational-wave/multimessenger astronomy. The primary goal of our graduate education is the training of creative research scientists.

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### Admission

Applicant must meet Graduate School requirements plus departmental requirements as given for admission to the master's program. A master's degree is not a prerequisite for this PhD program.

## Reapplication

A student who receives the master's degree must formally reapply for admission to the Graduate School before continuing studies toward the PhD.

## Credits and Courses

Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM. The student plans an individual program of studies in consultation with the major professor.

Code	Title	Credits
<b>Physics core courses</b>		
PHYSICS 501G	Special Topics: Mathematical Models of Physical Problems I	3
PHYSICS 515G	Statistical Mechanics	3
PHYSICS 531G	Principles of Quantum Mechanics I	3
PHYSICS 532G	Principles of Quantum Mechanics II	3
PHYSICS 711	Theoretical Physics-Dynamics	3
PHYSICS 722	Advanced Classical Theoretical Physics	3
Additional credits in Physics courses numbered 700-999 *		6
Other courses and PHYSICS 990		30
<b>Total Credits</b>		<b>54</b>

\* Not including courses PHYSICS 711, PHYSICS 720, or PHYSICS 990. PHYSICS 651 is included. Independent studies, such as PHYSICS 999, requires approval by the Physics Graduate Academic Committee.

A student may elect to complete one of the following minor programs: a minor of 9 to 12 credits in a single department; a minor of 12 credits in two or more departments. Traditional fields for the minor are mathematics, other natural sciences, computer sciences and engineering. In planning a minor in a single department, the student is advised by the minor professor; in planning a minor in two or more departments, the student is advised by the major professor. The program of study is to be chosen with the major professor and the departmental academic graduate committee.

## Additional Requirements

### Residence

The student must meet minimum Graduate School residence requirements.

### Written Placement Test

At the beginning of the first semester of the doctoral program the student must take a written placement test. The test is designed to assess a student's physics problem solving capabilities assuming a knowledge of physics equivalent to an advanced undergraduate student at a premier institution. The results of the test will be used in advising the student to take either graduate core courses at the 500G/700-level directly or to take the 400G level courses corresponding to those before proceeding to the core courses.

### Doctoral Preliminary Examination

The student must pass an oral examination to qualify for formal admission to candidacy for the degree. The oral preliminary examination seeks to determine the student's preparation for independent research. This examination must be taken before the fifth semester of enrollment

into the physics doctoral program and passed within five semesters of enrollment into the physics doctoral program.

### Doctoral Proposal Hearing

The student must prepare a written proposal and pass an oral examination on the proposal to qualify for formal admission to candidacy for the degree. This oral examination seeks to determine the student’s preparation for independent research and the suitability of the proposed dissertation program. This examination must be passed within four years of enrollment into the physics doctoral program.

### Dissertation

The candidate must present a dissertation reporting the results of an original and independent research investigation representing substantive creative contribution.

### Dissertation Defense

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

## Political Science

The Department of Political Science offers a comprehensive curriculum designed to provide a thorough understanding of politics while providing a foundation for careers in government, law, education, business, and other fields. In addition to courses on political ideas, behavior, and institutions at the local, state, national, and international levels, the department offers opportunities for students to participate in research projects, internship programs, scholarship competitions, study abroad, a political science honor society (<http://uwm.edu/political-science/undergraduate/pi-sigma-alpha/>), and a program in law studies.

The curriculum is divided into four areas of study:

### American Politics

American politics involves the study of U.S. political institutions at the national level (e.g., Congress, Presidency, Judiciary), state and local government and politics, political parties, interest groups, policy making, elections and voting behavior, public opinion, public law and the judicial process, constitutional interpretation, and the field of public administration.

### Comparative Politics

Comparative politics studies political systems of nations outside the United States, including those in Western and Eastern Europe, Latin America, Asia, the Middle East, Africa, and Russia.

### International Relations

International relations focuses on American foreign policy, international organizations (e.g., the United Nations), international economics, war and peace, and international law.

### Political Theory

Political theorizing means questioning the assumptions underlying both politics and political science. Courses in political theory are designed to help students understand political experiences as they are interpreted by those who are engaged in politics and also by those who study it. Political theory therefore includes the history of political ideas, the writings of major theorists, and theories of history and the social sciences.

## Programs

- Political Science, BA (p. 1236)
- Political Science, MA (p. 1241)
- Political Science, Minor (p. 1242)
- Political Science, PhD (p. 1243)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Ivan Ascher	Associate Professor	PhD	University of California-Berkeley	✓	
Carol E. Baumann	Professor Emerita	PhD			✓
Robert J. Beck	Associate Professor, Associate Vice Chancellor	PhD	Georgetown University	✓	
Natasha Borges Sugiyama	Professor, Interim Director for Center for Latin American and Caribbean Studies	PhD	University of Texas-Austin	✓	
Eric C. Browne	Professor Emeritus	PhD			✓
Kathleen Dolan	Distinguished Professor	PhD	University of Maryland-College Park	✓	
Marcus E. Ethridge	Professor Emeritus	PhD			✓
Kennan Ferguson	Professor	PhD	University of Hawaii	✓	
David C. Garnham	Professor Emeritus	PhD			✓
Brett W. Hawkins	Professor Emeritus	PhD			✓
Uk Heo	Distinguished Professor	PhD	Texas A&M University	✓	
Thomas M. Holbrook	Distinguished Professor, Wilder Crane Professor of Government	PhD	University of Iowa	✓	
Shale A. Horowitz	Professor	PhD	University of California-Los Angeles	✓	

Douglas Ihrke	Professor	PhD	Northern Illinois University	✓	
Patrick W. Kraft	Assistant Professor	PhD	Stony Brook University	✓	
David Nachmias	Professor Emeritus	PhD			✓
Terry Nardin	Professor Emeritus	PhD			✓
Erin Olsen (Kaheny)	Associate Professor	PhD	University of South Carolina	✓	
Hong Min Park	Associate Professor	PhD	Washington University	✓	
Sara Pashak (Benesh)	Associate Professor, Chair	PhD	Michigan State University	✓	
Stephen L. Percy	Professor Emeritus	PhD			✓
Donald Pienkos	Professor Emeritus	PhD			✓
Joel Rast	Associate Professor, Internship Coordinator, Director of Urban Studies	PhD	University of Oregon	✓	
Steven Redd	Associate Professor	PhD	Texas A&M University	✓	
Ora John Reuter	Associate Professor	PhD	Emory University	✓	
Paru Shah	Professor	PhD	Rice University	✓	
Mark Tessler	Professor Emeritus	PhD			✓
John Wanat	Professor Emeritus	PhD			✓
Meredith W. Watts	Professor Emerita	PhD			✓
Ronald E. Weber	Professor Emeritus	PhD			✓

## Political Science, BA

Political science is the study of governments, political processes, public policies and political behavior by groups or individuals and is an ideal major for students with a passion for current events.

At UWM, students take coursework from four broad areas of political science in order to obtain a well-rounded education in the field: American politics, international relations, comparative politics, and political theory. Along with exploring these substantive areas, students strengthen their research, writing, and critical thinking skills. With this background, students leave UWM ready to enter graduate school or the world of work in government, international organizations, campaigns, business, consulting, nonprofits, and many other industries. This broad major is available entirely online, or students can mix-and-match and take a some online and some traditional classes.

Many students find that a degree in Political Science aligns well with their interest in law and their plans to attend law school after college. We offer a large number of courses in constitutional law and legal practice in society, and students can focus their electives around these as part of the Law Studies option within the Political Science major. Students planning for law school also often participate in our law sports programs such as intercollegiate moot court and intercollegiate mock trial.

Internships are encouraged for all majors, and opportunities can be found locally as well in in Washington DC.

Since 1966, students from all UW System campuses and other universities have participated in the United Nations Summer Seminar (<http://uwm.edu/political-science/undergraduate/u-n-summer-seminar/>). This five-week, six-credit program is partially held at United Nations Headquarters in Manhattan. The four weeks in New York include special access to U.N. facilities and intensive interaction with over 40 experts representing governments and international organizations.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	

MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements**

**I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the

Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is **NOT** the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

**III. Foreign Language Requirement**

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this

requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	
	Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)	

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
	Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above	
	Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.	
	Complete 9 credits in combination of the two options above.	

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
	Select 3 credits	3
<b>Humanities</b>		
	Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *	12
<b>Social Sciences</b>		
	Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *	12
<b>Natural Sciences</b>		
	Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *	12
<b>Cultural Diversity</b>		
	Complete 3 credits in a course with Cultural Diversity (CD) designation. **	3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities,

Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

### Political Science Major Requirements

Majors must attain a 2.0 GPA in all political science courses, including any transfer work, and a 2.0 GPA in political science courses taken at UWM. Majors are required to complete a minimum of 30 credits in political science, of which at least 15 must be in upper-division courses (numbered 300 or above) taken in residence at UWM. The following courses must be included among those taken for major credit:

Code	Title	Credits
<b>Introductory Requirement</b>		
POL SCI 104	Introduction to American Government and Politics	3
Select one of the following:		3
POL SCI 103	Introduction to Political Science	
POL SCI 106	Politics of the World's Nations	
POL SCI 175	Introduction to International Relations	
<b>Methods Requirement</b>		
Select one of the following:		3
POL SCI 203	Introduction to Political Science Research	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
<b>Requirements: Areas of Political Science</b>		
Select at least one course beyond the 100 level in each of the following four areas of political science:		12
<i>American Politics</i>		
POL SCI 105	State Politics	
POL SCI 150	Multicultural America: Minority Voting Rights and Representation	

POL SCI 201	Introduction to Public Service	POL SCI 341	Politics and Markets in Pacific-Rim Countries:
POL SCI 210	American Public Policy	POL SCI 345	Korean Politics and Foreign Policy <sup>2</sup>
POL SCI 213	Urban Government and Politics	POL SCI 355	The Politics of Economic Inequality
POL SCI 215	Ethnicity, Religion and Race in American Politics	POL SCI 368	Gender and Politics in Developing Nations
POL SCI 216	Environmental Politics	POL SCI 371	Nationalism and Ethnic Conflict
POL SCI 243	Public Administration	POL SCI 372	Poverty and Politics:
POL SCI 250	Law and Society	POL SCI 374	Health, Wealth, and Democracy
POL SCI 387	Topics in American Politics:	POL SCI 377	Elections in the Modern World
POL SCI 388	Latino Politics	<i>International Politics</i>	
POL SCI 398	Cyberpolitics <sup>1</sup>	POL SCI 175	Introduction to International Relations
POL SCI 405	State Government:	POL SCI 314	Chinese Politics and Foreign Policy <sup>2</sup>
POL SCI 408	The American Presidency	POL SCI 316	International Law
POL SCI 410	Law Through Popular Culture	POL SCI 330	The Politics of International Economic Relations
POL SCI 411	Constitutional Law: Government Powers and Federalism	POL SCI 337	International Organization and the United Nations
POL SCI 412	Constitutional Law: Civil Rights and Liberties	POL SCI 338	Seminar in International Relations:
POL SCI 415	The Politics of Race, Ethnicity and Immigration	POL SCI 339	European Integration
POL SCI 416	Judicial Politics	POL SCI 340	Politics of Nuclear Weapons
POL SCI 417	The Supreme Court	POL SCI 343	Asian International Relations
POL SCI 419	Constitutional Interpretation	POL SCI 345	Korean Politics and Foreign Policy <sup>2</sup>
POL SCI 421	Party Politics in America	POL SCI 346	U.S.-Latin American Relations
POL SCI 425	Women in Politics	POL SCI 359	Problems of American Foreign Policy
POL SCI 426	Congressional Politics	POL SCI 365	Theories and Methods in International Politics
POL SCI 444	Politics and the Bureaucracy	POL SCI 370	International Conflict
POL SCI 450	Urban Political Problems	POL SCI 379	Morality, Conflict and War
POL SCI 452	Administrative Law	POL SCI 391	Current Crises and Events in International Relations
POL SCI 464	Sex, Gender, and the Law	POL SCI 423	Conduct of American Foreign Affairs
POL SCI 467	Elections and Voting Behavior	<i>Political Theory</i>	
POL SCI 471	Problems in Law Studies:	POL SCI 110	Sex and Power
POL SCI 473	Public Opinion	POL SCI 255	Great Issues of Politics
POL SCI 475	Political Psychology	POL SCI 281	Classics of Political Theory
<i>Comparative Politics</i>		POL SCI 361	History of International Political Thought
POL SCI 106	Politics of the World's Nations	POL SCI 381	The Development of Western Political Thought
POL SCI 300	Western European Politics	POL SCI 382	Modern Political Thought
POL SCI 301	British Politics	POL SCI 383	Environmental Political Theory
POL SCI 302	Politics of Eastern Europe	POL SCI 384	The Philosophy of Law
POL SCI 310	Russian and Post-Soviet Politics	POL SCI 385	American Political Thought
POL SCI 312	The Politics of Authoritarian Regimes	POL SCI 386	Contemporary Political Theory
POL SCI 314	Chinese Politics and Foreign Policy <sup>2</sup>	POL SCI 389	Politics and Philosophy:
POL SCI 320	Politics of Developing Countries	<b>Research Experience</b>	<b>3</b>
POL SCI 321	Politics of Revolution in Developing Nations	Select one from the list below. <sup>3</sup>	
POL SCI 325	Latin American Politics	POL SCI 312	The Politics of Authoritarian Regimes
POL SCI 326	Brazilian Politics and Society	POL SCI 314	Chinese Politics and Foreign Policy
POL SCI 328	The Arab-Israeli Conflict	POL SCI 325	Latin American Politics
POL SCI 329	African Politics	POL SCI 326	Brazilian Politics and Society
POL SCI 333	Seminar in Comparative Politics:	POL SCI 338	Seminar in International Relations:
POL SCI 334	German Politics and the New Europe		
POL SCI 335	Comparative Political Systems		

POL SCI 345	Korean Politics and Foreign Policy
POL SCI 346	U.S.-Latin American Relations
POL SCI 361	History of International Political Thought
POL SCI 368	Gender and Politics in Developing Nations
POL SCI 370	International Conflict
POL SCI 408	The American Presidency
POL SCI 415	The Politics of Race, Ethnicity and Immigration
POL SCI 416	Judicial Politics
POL SCI 417	The Supreme Court
POL SCI 425	Women in Politics
POL SCI 426	Congressional Politics
POL SCI 464	Sex, Gender, and the Law
POL SCI 467	Elections and Voting Behavior

**Electives**

Select 6 credits from any of the above. 6

**Total Credits** 30

<sup>1</sup> Depending on instructor, may satisfy American Politics or International Relations area requirement, but not both.

<sup>2</sup> May be used to satisfy Comparative Politics or International Politics but not both.

<sup>3</sup> Satisfies the L&S requirement for a research experience in the major; should be taken in the last year of study.

**Course of Study: Law Studies Option**

Students may emphasize the study of law within the major by completing, in conjunction with or in addition to all of the requirements outlined above, the courses listed below as part of the 30 credits required for the major. Some of the courses below also satisfy the requirement of 3 credits above the 100 level in each area of Political Science.

**Law Studies Requirements**

Code	Title	Credits
<b>Required</b>		
POL SCI 250	Law and Society <sup>4</sup>	3
POL SCI 411	Constitutional Law: Government Powers and Federalism <sup>4</sup>	3
POL SCI 412	Constitutional Law: Civil Rights and Liberties <sup>4</sup>	3
Select two of the following:		6
POL SCI 316	International Law <sup>5</sup>	
POL SCI/PHILOS 384	The Philosophy of Law <sup>6</sup>	
POL SCI 410	Law Through Popular Culture <sup>4</sup>	
POL SCI 416	Judicial Politics <sup>4</sup>	
POL SCI 417	The Supreme Court <sup>4</sup>	
POL SCI 419	Constitutional Interpretation <sup>4</sup>	
POL SCI 452	Administrative Law <sup>4</sup>	
POL SCI 464	Sex, Gender, and the Law <sup>4</sup>	
POL SCI 471	Problems in Law Studies: <sup>4</sup>	
<b>Total Credits</b>		<b>15</b>

<sup>4</sup> Satisfies the American politics requirement.

<sup>5</sup> Satisfies the international politics requirement.

<sup>6</sup> Satisfies the political theory requirement.

**Letters & Science Advising**

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

**Honors and High Honors in the Major**

Departmental honors are awarded upon graduation to students who achieve a 3.500 GPA overall in all UWM courses attempted, in their political science major courses, and in upper-division political science courses. Students meeting these GPA requirements will be slated automatically for graduating with honors in the major.

Students who meet the GPA requirement and wish to be considered for departmental high honors should request that the faculty member supervising their substantial research paper nominate them for high honors. The supervising faculty member will decide if the student should be recommended to the high honors committee, which is composed of



three political science faculty members. The committee will determine if the quality of the nominee's paper is sufficient to earn the high honors designation and, if so, will bestow the high honors accordingly. Note that a student interested in receiving high honors must contact a Political Science faculty member to be considered; high honors are not bestowed automatically.

Questions about honors designations can be directed to any of the Political Science faculty advisors.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Political Science, MA

The Department of Political Science offers graduate programs of study in political science with concentrations in five fields: American politics; comparative politics; international relations; political theory; and public administration and public policy.

The master's program is designed to provide students with a basic grounding in the scope and methodology of the discipline, while at the same time allowing maximum flexibility in developing a program of study that will meet students' career objectives. It is recommended that students preparing themselves for PhD work emphasize empirical theory, quantitative skills and strategies and techniques of conducting research. Students may select coursework to help them prepare for such career fields as governmental service, public and private education, community service, and private industry. In developing an appropriate and coherent program of study, each graduate student works closely with the major professor and committee of advisors.

The Department accommodates the master's student who attends part time by scheduling sufficient graduate-level courses in the late afternoons and evenings to enable the student to earn a master's degree through part-time attendance.

In the PhD program the departmental emphasis is on conceptual and quantitative work. The Department requires that the student be broadly trained and accordingly encourages each student to take advantage

of offerings in related disciplines to strengthen expertise in political change. The graduate of the program is qualified for a career in university teaching, in government service or in the private sector where the analytical skills and knowledge of the social scientist are required. Graduate degrees are conferred on the basis of a level of achievement which is acquired by independent reading and research as well as by taking courses. They are never conferred solely on the basis of prescribed courses and residency requirements.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Undergraduate major or substantial work in the field of political science.
2. Undergraduate grade point average of at least 3.0 (4.0 scale).
3. Three letters of recommendation from persons familiar with applicant's scholastic ability and achievements.
4. Personal statement of research interests and how UWM's Political Science Department will help you meet your career and educational goals.

Submission of GRE scores (official or unofficial) is encouraged, but not required.

## Credits and Courses

Minimum degree requirement is 30 graduate credits, all of which must be taken at the 700 level or above.

Code	Title	Credits
Core Courses on scope and method of political inquiry		
POL SCI 700	Scope and Methods of Political Science	3
POL SCI 701	Techniques of Political Science Research	3
POL SCI 702	Advanced Techniques of Political Science Research	3
Other POL SCI courses		15
Up to 6 credits in related field		6
<b>Total Credits</b>		<b>30</b>

A student must enroll for at least 3 credit hours of POL SCI 990 for final preparation of the Master's Paper.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The incoming student is advised by the Director of Graduate Studies; as the

student develops specialized interests within the discipline, the student selects a major professor from within that area of specialization.

## Master's Paper

A formal thesis is not required. However, each student shall prepare and defend orally a paper that demonstrates conceptual ability and research competence in some recognized area (sub-field) of political science. It is expected that the master's paper will be prepared in a scholarly fashion, normally conforming to the format characteristic of journal articles published in the chosen area of study. A statement setting forth additional guidelines and criteria of evaluation will be made available.

For full-time students it is expected that the master's paper will be defended prior to the completion of four semesters (two years) of graduate work. Consequently, the Department encourages students to choose paper topics for graduate seminars that may serve as the basis for the master's paper. Postponement of the oral defense of the master's paper beyond four semesters requires the approval of the Graduate Committee.

## Comprehensive Examination

An oral defense of the master's paper is required. Master's papers will be defended before a three-person committee composed of one of the student's advisors and two other faculty members selected by the chair of the Department in consultation with the student and the advisor.

The committee will be selected at least one full semester prior to anticipated submission of the master's paper. The student must obtain committee approval of the research topic and methodology immediately following the selection of the committee.

## Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Political Science, Minor

Political science is the study of governments, political processes, public policies and political behavior by groups or individuals and is an ideal major for students with a passion for current events.

At UWM, students take coursework from four broad areas of political science in order to obtain a well-rounded education in the field: American politics, international relations, comparative politics, and political theory. Along with exploring these substantive areas, students strengthen their research, writing, and critical thinking skills. With this background, students leave UWM ready to enter graduate school or the world of work in government, international organizations, campaigns, business, consulting, nonprofits, and many other industries. This broad the minor is available entirely online, or students can mix-and-match and take a some online and some traditional classes.

Many students find that a degree in Political Science aligns well with their interest in law and their plans to attend law school after college. Students planning for law school also often participate in our law sports programs such as intercollegiate moot court and intercollegiate mock trial.

## Requirements

Minors are required to complete a minimum of 18 credits in political science, of which at least 9 must be in upper-division courses (numbered 300 or above) taken at UWM. Minors must complete courses in at least two of the following four areas: American politics, comparative politics,

international politics, and political theory. Students must attain a 2.0 GPA in all political science courses, including any transfer work, and a 2.0 GPA in all political science courses taken at UWM.

Code	Title	Credits
<b>Introductory and methods courses</b>		
These are courses that count toward your minor in Political Science, but do not count toward the 'two different areas' requirement.		
POL SCI 103	Introduction to Political Science	3
POL SCI 203	Introduction to Political Science Research	3
POL SCI 390	Political Data Analysis	3
POL SCI 392	Survey Research	3
<b>Areas of Political Science</b>		
Use this list to ensure that you take courses from at least two different areas of Political Science.		
<i>American Politics</i>		
POL SCI 104	Introduction to American Government and Politics	3
POL SCI 105	State Politics	3
POL SCI 150	Multicultural America: Minority Voting Rights and Representation	3
POL SCI 201	Introduction to Public Service	3
POL SCI 210	American Public Policy	3
POL SCI 213	Urban Government and Politics	3
POL SCI 215	Ethnicity, Religion and Race in American Politics	3
POL SCI 216	Environmental Politics	3
POL SCI 243	Public Administration	3
POL SCI 250	Law and Society	3
POL SCI 387	Topics in American Politics:	3
POL SCI 388	Latino Politics	3
POL SCI 398	Cyberpolitics <sup>1</sup>	3
POL SCI 405	State Government:	3
POL SCI 408	The American Presidency	3
POL SCI 410	Law Through Popular Culture	3
POL SCI 411	Constitutional Law: Government Powers and Federalism	3
POL SCI 412	Constitutional Law: Civil Rights and Liberties	3
POL SCI 415	The Politics of Race, Ethnicity and Immigration	3
POL SCI 416	Judicial Politics	3
POL SCI 417	The Supreme Court	3
POL SCI 419	Constitutional Interpretation	3
POL SCI 421	Party Politics in America	3
POL SCI 425	Women in Politics	3
POL SCI 426	Congressional Politics	3
POL SCI 444	Politics and the Bureaucracy	3
POL SCI 450	Urban Political Problems	3
POL SCI 452	Administrative Law	3
POL SCI 464	Sex, Gender, and the Law	3
POL SCI 467	Elections and Voting Behavior	3
POL SCI 471	Problems in Law Studies:	3

POL SCI 473	Public Opinion	3
POL SCI 475	Political Psychology	3
<i>Comparative Politics</i>		
POL SCI 106	Politics of the World's Nations	3
POL SCI 300	Western European Politics	3
POL SCI 301	British Politics	3
POL SCI 302	Politics of Eastern Europe	3
POL SCI 310	Russian and Post-Soviet Politics	3
POL SCI 312	The Politics of Authoritarian Regimes	3
POL SCI 314	Chinese Politics and Foreign Policy <sup>2</sup>	3
POL SCI 320	Politics of Developing Countries	3
POL SCI 321	Politics of Revolution in Developing Nations	3
POL SCI 325	Latin American Politics	3
POL SCI 326	Brazilian Politics and Society	3
POL SCI 328	The Arab-Israeli Conflict	3
POL SCI 329	African Politics	3
POL SCI 333	Seminar in Comparative Politics:	3
POL SCI 334	German Politics and the New Europe	3
POL SCI 335	Comparative Political Systems	3
POL SCI 341	Politics and Markets in Pacific-Rim Countries:	3
POL SCI 345	Korean Politics and Foreign Policy <sup>2</sup>	3
POL SCI 355	The Politics of Economic Inequality	3
POL SCI 368	Gender and Politics in Developing Nations	3
POL SCI 371	Nationalism and Ethnic Conflict	3
POL SCI 372	Poverty and Politics:	3
POL SCI 374	Health, Wealth, and Democracy	3
POL SCI 377	Elections in the Modern World	3
<i>International Politics</i>		
POL SCI 175	Introduction to International Relations	3
POL SCI 314	Chinese Politics and Foreign Policy <sup>2</sup>	3
POL SCI 316	International Law	3
POL SCI 330	The Politics of International Economic Relations	3
POL SCI 337	International Organization and the United Nations	3
POL SCI 338	Seminar in International Relations:	3
POL SCI 339	European Integration	3
POL SCI 340	Politics of Nuclear Weapons	3
POL SCI 343	Asian International Relations	3
POL SCI 345	Korean Politics and Foreign Policy <sup>2</sup>	3
POL SCI 346	U.S.-Latin American Relations	3
POL SCI 359	Problems of American Foreign Policy	3
POL SCI 365	Theories and Methods in International Politics	3
POL SCI 370	International Conflict	3
POL SCI 379	Morality, Conflict and War	3
POL SCI 391	Current Crises and Events in International Relations	3
POL SCI 423	Conduct of American Foreign Affairs	3
<i>Political Theory</i>		

POL SCI 110	Sex and Power	3
POL SCI 255	Great Issues of Politics	3
POL SCI 281	Classics of Political Theory	3
POL SCI 361	History of International Political Thought	3
POL SCI 381	The Development of Western Political Thought	3
POL SCI 382	Modern Political Thought	3
POL SCI 383	Environmental Political Theory	3
POL SCI 384	The Philosophy of Law	3
POL SCI 385	American Political Thought	3
POL SCI 386	Contemporary Political Theory	3
POL SCI 389	Politics and Philosophy:	3

<sup>1</sup> Depending on instructor, may satisfy American Politics or International Relations area requirement, but not both.

<sup>2</sup> May be used to satisfy Comparative Politics or International Politics but not both.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Political Science, PhD

The Department of Political Science offers graduate programs of study in political science with concentrations in five fields: American politics; comparative politics; international relations; political theory; and public administration and public policy.

The master's program is designed to provide students with a basic grounding in the scope and methodology of the discipline, while at the same time allowing maximum flexibility in developing a program of study that will meet students' career objectives. It is recommended that students preparing themselves for PhD work emphasize empirical theory, quantitative skills and strategies and techniques of conducting research. Students may select coursework to help them prepare for such career fields as governmental service, public and private education, community service, and private industry. In developing an appropriate and coherent program of study, each graduate student works closely with the major professor and committee of advisors.

The Department accommodates the master's student who attends part time by scheduling sufficient graduate-level courses in the late afternoons and evenings to enable the student to earn a master's degree through part-time attendance.

In the PhD program the departmental emphasis is on conceptual and quantitative work. The Department requires that the student be broadly trained and accordingly encourages each student to take advantage of offerings in related disciplines to strengthen expertise in political change. The graduate of the program is qualified for a career in university teaching, in government service or in the private sector where the analytical skills and knowledge of the social scientist are required. Graduate degrees are conferred on the basis of a level of achievement which is acquired by independent reading and research as well as by taking courses. They are never conferred solely on the basis of prescribed courses and residency requirements.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

1. Evidence of a high standard of achievement in bachelors or previous graduate work.
2. Three letters of recommendation from people familiar with the applicant's scholastic ability and achievements.
3. Personal statement of research interests and how UWM's Political Science Department will help you meet your career and educational goals.
4. Writing sample.

Submission of GRE scores is encouraged (official or unofficial), but not required.

## Credits and Courses

Minimum degree requirement is 54 graduate credits beyond the bachelor's degree, 27 of which must be earned in residence at UWM at the doctoral level.

### Distribution Requirement

To ensure broad exposure to the discipline, students must take a minimum of three courses outside of their prelim fields, at least two of which must be in a single field. Courses used to satisfy this requirement must be taken from the departmental offerings in the four substantive fields described below. Courses that bridge two or more fields of study cannot be used to satisfy this requirement if one of those fields falls within a student's prelim areas.

All courses taken to satisfy the distribution requirement must be political science courses numbered 700 or above.

## Core Research Requirements

Attainment of the PhD denotes a high level of competence in research skills relevant to the discipline of political science. Thus, all students must complete the core departmental research seminars. Since skills learned in these courses are important elements in dealing successfully with subject matter presented in other seminars, students should enroll in these seminars immediately upon entering the graduate program.

Code	Title	Credits
<b>Research Methodology</b>		<b>12</b>
POL SCI 700	Scope and Methods of Political Science	
POL SCI 701	Techniques of Political Science Research	
POL SCI 702	Advanced Techniques of Political Science Research	
POL SCI 935	Seminar in Advanced Political Science Methodology <sup>1</sup>	
<b>Courses in two prelim fields</b>		<b>32</b>
<b>Distribution Requirement</b>		<b>9</b>
Minimum three courses outside prelim fields (At least two in a single field)		
POL SCI 990	Research and Thesis	1-3
<b>Total Credits</b>		<b>54-56</b>

<sup>1</sup> Students using a course from outside the Department of Political Science to satisfy this requirement may enroll on a "Credit/No Credit" basis, where the grade of "Credit" demonstrates satisfactory completion of the requirement. Upon successful petition to the departmental Graduate Committee, a student may gain exemption from this requirement, based on coursework completed in the five years prior to entering the graduate program. Students who receive this exemption must still complete at least 27 credits in residence. Credits earned to meet the research requirement may count toward the 54 credits of work required for the PhD if they carry graduate credit and are taken for a grade.

In some cases, competence in foreign language skills is necessary for significant disciplinary research. Students may fulfill the research requirements beyond the above seminars through demonstration of a reading knowledge of one foreign language. Competence is established through examination, by an appropriate UWM language department. The student must perform at a level equivalent to six semesters of college-level work in the language.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The incoming student is advised by the Director of Graduate Studies; as that student develops specialized interests within the discipline, the student selects a major professor from within that area of specialization.

### Areas of Concentration

In consultation with the major professor students plan a program of studies through which a high level of competence is gained in two substantive fields (hereafter referred to as "major" or "prelim" fields). The department offers four fields of study:

- American Politics
- Comparative Politics
- International Relations
- Political Theory

Competence in these fields is demonstrated by a written and oral preliminary examination. In addition to the fields listed above, students may petition the graduate committee to be examined in an alternative field. This must be a coherent field that is not covered by one of the existing prelim areas.

## Evaluation of Student Progress

The Department annually evaluates the progress of each student, in order to identify areas of strength and weakness as an aid to the student and the student's major professor in planning the program of study. This evaluation is also used to determine whether or not the student should be encouraged to pursue further graduate work.

## Residence

The student must meet minimum Graduate School residence requirements.

## Doctoral Preliminary Examination

The student must pass a doctoral written and oral preliminary examination covering both of their fields of study. The preliminary exam is taken during the semester following the completion of coursework.

## Dissertation

The candidate, working under the supervision of the major professor and the candidate's dissertation committee, must write an acceptable dissertation. A dissertation prospectus must be written during the last semester of coursework and will be defended at the end of the following semester as part of the preliminary examination. Guidelines for preparation of the dissertation are available from the Graduate School.

## Dissertation Defense

The candidate must, as a final step toward the degree, pass an oral examination in defense of the dissertation. The candidate who does not successfully defend a thesis within five years of admission to candidacy may be required to take another comprehensive preliminary examination and be readmitted to candidacy.

## Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

## Pre-Professional Programs

Pre-Professional Programs refers to any program that prepares students for professional graduate school such as a medical school, law school, or dental school.

Specialized advisors are available for each of the programs listed on the Programs tab (p. 1245) of this page. These advisors help students with course planning and other advice related to the elements needed to be a successful applicant to these competitive graduate programs. Depending on the graduate program, students will need to dedicate time and effort during college to obtain the necessary hands-on experience through volunteer work, internships, or part-time jobs. Early planning is essential for anyone who is considering a graduate professional school, and it is

advised that students meet with the pre-professional advisor beginning in freshman year.

## Programs

- Other Pre-Professional Health Study (p. 1245)
- Pre-Anesthesiologist Assistant (p. 1245)
- Pre-Chiropractic (p. 1246)
- Pre-Dentistry (p. 1247)
- Pre-Law (p. 1248)
- Pre-Medicine (p. 1248)
- Pre-Optometry (p. 1249)
- Pre-Pathologist Assistant (p. 1250)
- Pre-Pharmacy (p. 1251)
- Pre-Physician Assistant (p. 1252)
- Pre-Podiatry (p. 1253)
- Pre-Veterinary Medicine (p. 1254)

## Other Pre-Professional Health Study

Students interested in chiropractic medicine, optometry, physician assistant, and podiatry careers can fulfill the admission requirements of these professional programs in the College of Letters and Science. Information concerning these requirements and the admission tests for the professional schools is available in the Student Academic Services office. Call (414) 229-4654 to schedule an appointment with the appropriate advisor.

## Pre-Anesthesiologist Assistant

An anesthesiologist assistant holds a similar role to physician assistants who aide doctors. Anesthesiologist assistants specifically help anesthesiologists during pre-op, surgery, and post-op. Common job duties include taking health histories from patients, performing physical exams, diagnostic testing, catheterization, administering and monitoring anesthesia, post-op monitoring, life support, documentation, and reporting.

To become an anesthesiologist assistant, students must complete a four-year bachelor's degree with a rigorous science and math curriculum that is very similar to a pre-med path. After college, students must be admitted to an anesthesiologist assistant master's program which takes an additional two years to complete. The master's program includes advanced course work in physiology, pharmacology, anatomy and biochemistry and how that knowledge is applied when working with the cardiovascular, respiratory, renal, nervous and neuromuscular systems of the human body. In addition, clinical training is provided within the master's program that includes training and practice in patient care.

Admission to these graduate programs is very competitive. There are only 12 accredited programs in the U.S. and most schools bring in fewer than 20 students per year. Typically students will have earned a 3.6 GPA or higher while in college, and will have scored above the 70th percentile on the standardized test for graduate school. Some anesthesiologist assistant schools require the MCAT exam, while others require the GRE, either of which is usually taken the latter half of junior year.

In addition to strong academic credentials, most anesthesiology assistant programs will require students to have completed a number of hours of job shadowing. Other related healthcare experience through volunteer work, part-time jobs, or research internships can also enhance a

student's application to anesthesiologist assistant school. Students who declare an intention to take a pre-anesthesiologist assistant track will be assigned an advisor who specializes in advising pre-health students and can assist with finding these types of opportunities.

Anesthesiologist assistant schools do not require any specific major but do expect that students will have taken the necessary preparatory math and science coursework needed to succeed in their program. This includes multiple courses in chemistry, organic chemistry, and biochemistry; multiple classes in biological sciences including genetics and anatomy; math, generally through the first semester of calculus; and statistics. Some physics is also required. Because of the heavy emphasis on biology and chemistry, many students choose to major in biology, chemistry, or biochemistry, but that is not a requirement. As long as a student takes the required preparatory coursework, he/she can major in any subject area.

Because science coursework is very sequential and must be taken in a specific order, students interested in pre-anesthesiologist assistant should express their intentions early so that the advisor can help the student with course selection. Taking the right courses beginning in freshman year is vital to staying on track and avoiding a delay in graduation.

## Requirements

Entrance to an anesthesiologist assistant program is very competitive – there are only 12 programs in the United States. Students are advised to work closely with the advisor for the pre-anesthesiologist assistant program to ensure they are able to present the strongest possible application packet with exceptional grades, standardized test scores, and experiential learning.

Nearly all anesthesiologist assistant schools require that applicants take the Medical College Admission Test (MCAT). Students normally should arrange to take this test at the end of their junior year. The advisor can provide information regarding the administration of this test.

Minimal coursework preparation while in college would include:

- One year of English
- Math through one semester of calculus
- Two to two and one-half years of chemistry, including inorganic, organic, and biochemistry
- Two years of biology, including anatomy and physiology
- One year of physics

Effective 2015, the MCAT added a social/behavioral science component and additional chemistry. To be well prepared for the MCAT, students are advised to complete PSYCH 101, SOCIOL 101, and PH 101 (as well as other courses selected in consultation with the pre-anesthesiologist assistant advisor) and CHEM 501. Other classes, such as Communication, are more frequently being strongly recommended by various graduate healthcare programs.

Code	Title	Credits
<i>Recommended Science Courses</i>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
BIO SCI 315	Cell Biology	3

BIO SCI 325	Genetics	4
BIO SCI 383	General Microbiology	4
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 501	Introduction to Biochemistry	3
PHYSICS 120	General Physics I (Non-Calculus Treatment)	4
PHYSICS 121	General Physics Laboratory I (Non-Calculus Treatment)	1
PHYSICS 122	General Physics II (Non-Calculus Treatment)	4
PHYSICS 123	General Physics Laboratory II (Non-Calculus Treatment)	1

Although the courses listed above are mandatory for admission to almost all anesthesiologist assistant schools, the rest of the program can be whatever the student wishes. Students are not required to major in biology, chemistry, or biochemistry in order to gain admission to anesthesiologist assistant school, though many choose to do so.

## Pre-Chiropractic

The U.S. Bureau of Labor Statistics projects an above average increase in employment opportunities for chiropractors. As alternative medicine becomes more acceptable and the population ages, it is expected that the profession will grow by 10 percent from 2020 to 2032. Students can expect to spend three-and-a-half years in chiropractic school after the completion of four years of college.

Chiropractors diagnose and treat patients with health problems related to the body's muscular, nervous, and skeletal system, particularly the spine. They view their patients as an integrated being and do not use drugs or surgery. The chiropractic theory states that there are many factors that affect our health, including heredity, type of exercise, environmental surroundings, dietary habits and rest.

Common tasks for a chiropractor include patient examination, analysis of posture and spine position, spinal and joint adjustments, application of heat and ice treatments, and patient lifestyle counseling. Some chiropractors use acupuncture, massage therapy, and ultrasound if they have received such training.

Pre-Chiropractic is not a major, and students must still choose a major. Since most of the pre-requisites necessary for application to Chiropractic school are in the sciences, many students choose a science major, though it is not required. Our specialized pre-chiropractic advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to Chiropractic school. A significant number of volunteer or work hours is often a requirement for application to Chiropractic school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

UWM partners closely with three chiropractic colleges: Palmer College of Chiropractic in Davenport, Iowa; Cleveland Chiropractic College in Overland Park, Kansas; and Northwestern Health Sciences University in Bloomington, Minnesota. UWM students who meet certain academic

standards may qualify for guaranteed admission at these institutions. Students are encouraged to work closely with the pre-chiropractic advisor in order to plan early for this transition and to understand the specific requirements of these schools. There are no chiropractic graduate programs in the State of Wisconsin.

A suggested timeline is also available from the advisor to help you plan preparatory activities throughout your four years in college.

## Requirements

Entrance to a chiropractic program is very competitive. Although specific admission requirements may vary among programs, the following minimum standards generally apply:

- 90 completed undergraduate credits
- Overall GPA of 3.00 or higher
- 30+ credits at the 300+ level
- 24 credits in the natural sciences, half with lab work

Other common course requirements include (but are not limited to) the following: anatomy and physiology, cell biology, biochemistry, math statistics, nutrition, kinesiology, genetics, psychology, microbiology, immunology, and toxicology. Due to the variance in admission requirements, it is strongly recommended that students consult with the pre-chiropractic advisor every semester.

Recommended coursework includes:

Code	Title	Credits
One year (two semesters) general biology with lab:		8
BIO SCI 150 & BIO SCI 152	Foundations of Biological Sciences I and Foundations of Biological Sciences II	
One year (two semesters) general chemistry with lab:		10
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	
One year (two semesters) organic chemistry with lab:		8
CHEM 343	Organic Chemistry	
CHEM 344	Organic Chemistry Laboratory	
CHEM 345	Organic Chemistry	
One year (two semesters) physics with lab:		10
Option 1:		
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	
PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)	
Option 2:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	

Other common course requirements include (but are not limited to) the following: anatomy and physiology, cell biology, biochemistry, math

statistics, nutrition, kinesiology, genetics, psychology, microbiology, immunology, and toxicology.

Due to the variance in admission requirements, it is strongly recommended that students consult with the pre-chiropractic advisor every semester.

## Pre-Dentistry

The U.S. Bureau of Labor Statistics projects faster than average growth in dentistry, particularly as more links are identified between oral health and overall health. Students can expect to spend four years in dental school after the completion of four years of college.

If you are considering dental school, UWM will provide you with a solid foundation to help you reach your goal. There are 72 dental schools in the United States, only one of which is in Wisconsin at Marquette University. The application process is competitive so it is important that pre-dental students begin careful planning of their academic career during the freshman year. Requirements vary among dental schools, making early planning in consultation with a pre-dental advisor vital.

Dental schools require a minimum of 90 completed college credits. It is possible, though highly rare, to enter dental school without earning a bachelor's degree. The vast majority of students complete their bachelor's degree before proceeding to dental school.

It is recommended that students obtain some hand-on exposure to the dental profession prior to dental school, either through volunteer or internship opportunities, or paid work at a dental practice or community dental clinic.

Pre-Dental is not a major, and students must still choose a major. Since most of the pre-requisites necessary for application to dental school are in the sciences, many students choose a science major, though it is not required. Our specialized pre-dental advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to dental school. A significant number of volunteer or work hours is often a requirement for application to dental school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

A suggested timeline is also available from the advisor to help you plan preparatory activities throughout your four years in college.

## Requirements

Most schools of dentistry require a minimum of three years of undergraduate work, however, it is becoming less common for students to leave college without finishing their bachelor's degree.

The 90 credits required for admission to most schools of dentistry include the following courses:

- 1 year of English;
- 2-2.5 years of chemistry, including inorganic chemistry, organic chemistry, and biochemistry;
- 1 year of biology (more is advised); and
- 1 year of physics.

Most dental schools require mathematics at least through pre-calculus. All science courses must include laboratory work. In addition, students

are advised to take elective credits to ensure a broad liberal arts education.

Students must achieve satisfactory scores on the Dental Admission Test (DAT) to be a competitive applicant for dental school. The Pre-Dental Advisor can provide information regarding the administration of this test.

## Science Courses That Satisfy Dental School Admission Requirements

Code	Title	Credits
<b>Biological Sciences</b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
Select one of the following:		3-4
BIO SCI 315	Cell Biology	
BIO SCI 325	Genetics	
BIO SCI 383	General Microbiology	
<b>Chemistry</b>		
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 501	Introduction to Biochemistry	3
<b>Physics</b>		
Select one of the following options:		10
Option 1:		
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	
PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)	
Option 2:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
Option 3:		
PHYSICS 219	Physics I: Calculus-Based, Studio Format	
PHYSICS 220	Physics II: Calculus-Based, Studio Format	
<b>Total Credits</b>		<b>42-43</b>

## Pre-Law

Pre-law studies and a law degree are flexible programs. While many individuals take a traditional path and become practicing attorneys, many others use their legal training to work in business or other professions. To become a licensed attorney, three years of law school is required beyond college leading to the Juris Doctor (JD) degree.

Preparation for law school is a continuous process. It involves planning an undergraduate program that develops the skills necessary for the successful study of law; learning about the law profession and career options; and participating in activities (extracurricular, volunteer, internships, related employment) that enhance and build on classroom learning.

Skills deemed most essential by law schools are written and verbal communication abilities, an organized and logical thought process, analytical reasoning, research, and strong habits of thoroughness, tenacity, and intellectual curiosity.

Students are advised to choose a major that features the qualities that law schools are seeking. Common majors for students interested in going on to law school are political science, philosophy, history, and English, but a student from any major can go on to law school.

Two factors play primary roles in determining admission to law schools:

- academic performance as measured by the grade point average, and
- score on the LSAT

The quality and rigor of the undergraduate program also will be considered.

There is no specific major or set of courses required of pre-law students.

Students are advised to choose a major that features the qualities that law schools are seeking. Common majors for students interested in going on to law school are political science, philosophy, history, and English, but a student from any major can go on to law school.

## Pre-Medicine

The U.S. Bureau of Labor Statistics projects shortages across health care professions, including physicians. Some specialties, including primary care, will face severe shortages in the next five to twenty years. To practice medicine, further education and training are required, ranging from 4 to 8 years of additional schooling and training after college.

If you are considering medical school after college, UWM will provide you with an excellent foundation to help you reach your goal. Admission to medical school is a highly competitive process, and students must demonstrate very strong academic performance as well as provide evidence that they have engaged in health-related work experiences to meet the rigorous admission standards of medical school. UWM graduates have consistently been admitted to medical schools at a rate equal to or greater than the national average; many UWM Pre-Medical students have gone on to attend top-ranked medical schools and fulfilling careers in different medical specialties.

Medical schools do not require any specific major. What they do expect, however, is that students will have taken the necessary preparatory science classes to prepare for the demands of medical school. Because of the number of biology and chemistry classes that need to be taken, most students choose to major in biology, chemistry, biochemistry, or neuroscience, but this is not a requirement. As long as a student takes the required coursework, they can major in any subject area.

Many individuals feel a calling to the medical profession after they have graduated and been working in another profession. Individuals in this situation who did not major in a science field while in college or who have low grades in previous science education will maximize their opportunity



to become an admissible medical school candidate by re-taking science courses or by returning to school for a full major in a related science.

A significant number of volunteer or work hours is also often a requirement for application to medical school so it is important to work with the Pre-Medical advisor beginning in freshman year or upon entry to the certificate program in order to plan all needed activities into your college career.

## Requirements

The application process for medical school is highly competitive. Students are advised to work closely with the pre-med advisor to ensure they are able to present the strongest possible application packet for medical school with exceptional grades, standardized test scores, and experiential learning.

Nearly all medical schools require that applicants take the Medical College Admission Test (MCAT). Pre-Medical students normally should arrange to take this test at the end of their junior year. The Pre-Medical advisor can provide information regarding the administration of this test.

Most medical schools consider the following as minimal preparation for admission:

- One year of English;
- mathematics at least through pre-calculus;
- Two to two-and-a-half years of chemistry, including inorganic chemistry, organic chemistry, and biochemistry;
- One year of biology (more is advised); and
- One year of physics.

For most medical schools, science courses must include laboratory work.

Effective 2015, the MCAT added a social/behavioral science component and additional chemistry. To be well prepared for the MCAT, students are advised to complete PSYCH 101, SOCIOL 101, and PH 101 (as well as other courses selected in consultation with the premed advisor) and CHEM 501. Other classes, such as Communication, are more frequently being strongly recommended or required by various medical schools.

Some medical schools specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, Pre-Medical students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly. A list of all medical college admission requirements is located in the College advising office.

## Science Courses that Satisfy Medical School Admission Requirements

Code	Title	Credits
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
One advanced course in Biological Sciences with lab		4-5
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3

CHEM 501	Introduction to Biochemistry (required at UW-Madison Medical School)	3
Math (required at the Medical College of Wisconsin)		4
Select one of the following options:		10
Option 1:		
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	
PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)	
Option 2:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
Option 3:		
PHYSICS 219	Physics I: Calculus-Based, Studio Format	
PHYSICS 220	Physics II: Calculus-Based, Studio Format	
Statistics: Any statistics course (required at UW-Madison Medical School)		3
<b>Total Credits</b>		<b>50-51</b>

Although the courses listed above are mandatory for admission to almost all American medical schools, the rest of the program can be whatever the student wishes. Students are not required to major in biology, chemistry, or biochemistry in order to gain admission to medical school, though many choose to do so.

## Pre-Optometry

Employment of optometrists is expected to grow over the next decade as the population ages, but it is still a small and competitive profession. Optometry school requires four years of additional schooling after college.

Undergraduate preparation for the study of optometry requires a strong foundation in science and mathematics. UWM offers all of the prerequisites needed to apply to one of the 24 accredited optometry programs in the United States. There are no optometry programs in Wisconsin; the closest one is in Chicago. Although it is possible to enter an optometry program after completing the necessary science and math courses but before earning the bachelor's degree, it is a highly-rare situation. The majority of students accepted into optometry programs have completed their bachelor's degree.

Pre-Optometry is not a major, and students must still choose a major. Since most of the pre-requisites necessary for application to optometry school are in the sciences, many students choose a science major such as biology, though it is not required. Our specialized pre-optometry advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to optometry school. A significant number of volunteer or work hours is often a requirement for application to optometry school so it is

important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career.

## Requirements

Entrance to an optometry program is very competitive. Applicants must take the Optometry Admission Test (OAT). The OAT is a standardized examination designed to measure general academic ability and comprehension of scientific information. At least one year of college education, which should include courses in biology, general chemistry, organic chemistry, and physics, is required prior to taking the OAT. Most students, however, elect to complete two or more years of college prior to taking the exam in order to be better prepared.

Due to the variance in admission requirements, it is recommended that students consult with the Pre-Optometry Advisor every semester.

Although specific admission requirements may vary among programs, recommended coursework includes:

Code	Title	Credits
BIO SCI 150 & BIO SCI 152	Foundations of Biological Sciences I and Foundations of Biological Sciences II	8
BIO SCI 202 & BIO SCI 203	Anatomy and Physiology I and Anatomy and Physiology II	8
Select a Microbiology course		
Select a Biochemistry course		
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	10
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
Select one of the following options:		10
Option 1:		
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non- Calculus Treatment)	
PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non- Calculus Treatment)	
Option 2:		
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
PHYSICS 210 & PHYSICS 215	Physics II (Calculus Treatment) and Lab Physics II (Calculus Treatment)	
Select a Calculus course		
Select a Statistics course		
PSYCH 101	Introduction to Psychology	3
<b>Total Credits</b>		<b>47</b>

Other common course requirements include, but are not limited to and may vary by program: anatomy and physiology, cell biology, molecular biology, and immunology.

## Pre-Pathologist Assistant

Pathologists' assistant is a small but growing career track for students interested in the medical field, specifically pathology. Similar to how a physician assistant helps doctors, pathologists' assistants help pathologists with the tasks of their job. Duties may include gross examination and description of surgical specimens, assistance with intraoperative consultations, autopsies, laboratory management, data compilation and reporting, research, and inventory and lab maintenance according to industry standards. A pathologists' assistant can be found working in community and university hospitals, private laboratories, medical schools, morgues, and medical examiner offices.

The pathway to becoming a pathologists' assistant includes a four-year undergraduate (bachelor's) degree, followed by a two-year graduate program (master's) that includes both classroom education in medicine and pathology as well as clinical training. Admission to these graduate programs is very competitive, and there are only 13 pathologists' assistant master's programs in the U.S. There is one master's program in Wisconsin at Carroll University in Waukesha.

Typically students will have earned a 3.6 GPA or higher while in college, and will have scored above the 70th percentile on the standardized test for graduate school. Some pathologists' assistant schools require the MCAT exam, while others require the GRE, either of which is usually taken the latter half of junior year.

In addition to strong academic credentials, pathologists' assistant programs will be looking to see whether you have accumulated significant experience related to pathology while in college as part of their admissions process. This can include internships, lab work, related research projects, job shadowing, or part-time jobs. Students who declare an intention to take a pre-pathologists' assistant track will be assigned an advisor who specializes in advising pre-health students and can assist with finding these types of opportunities.

Pathologists' assistant schools do not require any specific major but do expect that students will have taken the necessary preparatory math and science coursework needed to succeed in their program. This includes multiple courses in chemistry, organic chemistry, and biochemistry; multiple classes in biological sciences including genetics and anatomy; math, generally through the first semester of calculus; and statistics. For this reason, many students choose to major in biology, chemistry, or biochemistry, but that is not a requirement. As long as a student takes the required preparatory coursework, they can major in any subject area.

Because science coursework is very sequential and must be taken in a specific order, students interested in pre-pathologists' assistant should express their intentions early so that the advisor can help the student with course selection. Taking the right courses beginning in freshman year is vital to staying on track and avoiding a delay in graduation.

## Requirements

Entrance to a pathologists' assistant program is very competitive – there are only 13 programs in the United States. Students are advised to work closely with the advisor for the program to ensure they are able to present the strongest possible application packet with exceptional grades, standardized test scores, and experiential learning.

Pathologists' assistant schools require that applicants take the Medical College Admission Test (MCAT) or the Graduate Record Exam (GRE). Students normally should arrange to take this test at the end

of their junior year. The advisor can provide information regarding the administration of one of these tests.

Minimal coursework preparation while in college would include:

- One year of English
- Math through precalculus and statistics
- Two to two and one-half years of chemistry, including inorganic, organic, and biochemistry
- Two and one-half years of biology, including anatomy and physiology and microbiology

Code	Title	Credits
<i>Recommended Science Courses</i>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
An additional upper level lab course in Biological Sciences		3-4
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 501	Introduction to Biochemistry	3

The courses listed above are mandatory for admission to almost all pathologists' assistant schools. Some of these graduate programs require that students major in a science while in college; others leave open the possibility of majoring in something else as long as the necessary science coursework is taken.

## Pre-Pharmacy

Following very rapid growth between 2010 and 2020, job openings for pharmacists are expected to increase by around 3% from 2021 through 2031, on par with other occupations. Entry level salaries average around \$125,000 depending on the area of the country and the type of setting (e.g. chain pharmacy, hospital, clinic, research facility, etc.).

The path to becoming a pharmacist begins with undergraduate study of biology and chemistry. Many students will complete a full bachelor of science degree typically in biology, chemistry or biochemistry and then move on to the Doctor of Pharmacy degree (PharmD), the professional graduate degree needed to enter the profession. Some students will be accepted to a PharmD program early prior to finishing college and will proceed to that program before finishing the bachelor's degree. Students should talk with their advisor about the pros and cons of different timelines and discuss which option is best for their own situation.

The PharmD portion of the program is four years so it takes between 6 and 9 years total of schooling to become a pharmacist. Entrance to pharmacy school is competitive - grades in science and math classes during college are an important factor and some pharmacy schools require a standardized admissions test (PCAT) with strong scores. Experience during college also matters. Strong applicants will have worked, volunteered, or interned in a pharmaceutical setting during college.

UWM offers all of the prerequisite coursework necessary for students to apply to professional pharmacy schools, the "pre-pharmacy" part of student's education. But UWM does not have a PharmD program and students will have to attend another university for that portion of their education.

We also have dual admission and early admission partnerships with four Pharm.D. schools: Midwestern University College of Pharmacy, University of Wisconsin-Madison, Concordia University Wisconsin, and the Medical College of Wisconsin.

1. The Midwestern University program offers two options. Track 1 offers dual admission to UWM's pre-pharmacy program and Midwestern University's Pharm.D. program while still a high school senior. In this program, a student would complete two years of science coursework at UWM before completing three and a half years at Midwestern. Application occurs during senior year in high school. Track 2 offers early admission to UWM freshmen on a pre-pharmacy track. Students have up to three years total (counting the freshman year at UWM) to complete the pre-pharmacy coursework at UWM which is followed by three years at Midwestern. Application occurs immediately at the end of freshman year at UWM. Read more about the dual acceptance program with Midwestern University (<https://www.midwestern.edu/academics/degrees-programs/doctor-pharmacy-program/college-pharmacy-downers-grove/dual-acceptance-program-il/>).
2. The University of Wisconsin-Madison's Early Assurance program is available to high school seniors and at all UW campuses that offer the bachelor's degree including UWM. College freshmen at UWM must apply no later than the end of their first semester of freshman year. Students who are accepted to the program can transition to Madison's pharmacy program as soon as all prerequisites are completed whether the bachelor's degree is completed or not. More information about the program, including the application steps, is available at PharmD Early Assurance (EA) Program – School of Pharmacy ([wisc.edu](http://wisc.edu)) ([https://pharmacy.wisc.edu/academics/pharmd/early-assurance/?utm\\_campaign=Early%20Assurance%20-%20Fall%202024&utm\\_medium=email&\\_hsmi=262411440&hsenc=p2ANqtz-wk3g76XkGAYBkx5ed9FbAdsB4o1YTV34BWfcC7i6-JO-ht7ZOQppAV4ex\\_Zbw2Lh3lxoeSm6il6OJyMw1EKf9nyYg&utm\\_content=262395](https://pharmacy.wisc.edu/academics/pharmd/early-assurance/?utm_campaign=Early%20Assurance%20-%20Fall%202024&utm_medium=email&_hsmi=262411440&hsenc=p2ANqtz-wk3g76XkGAYBkx5ed9FbAdsB4o1YTV34BWfcC7i6-JO-ht7ZOQppAV4ex_Zbw2Lh3lxoeSm6il6OJyMw1EKf9nyYg&utm_content=262395)).
3. The 3+4 Accelerated Program with Concordia University allows students who meet the program's requirements to spend three years at UWM and four years at Concordia in their PharmD program and still earn a bachelor's degree. Some Concordia credits will transfer back to UWM and count towards a bachelor's degree in biology from biology. Speak with the pre-pharmacy advisor during the first semester of freshman year to review the specific academic milestones that must be met to join the program.
4. The Early Assurance Direct Admission program with the Medical College of Wisconsin accepts applications from UWM freshmen and sophomores. The deadline to apply is the end of January of a student's sophomore year. Students accepted to the program must complete three years (90 credits) at UWM with a minimum 3.0 cumulative GPA and then will enter the PharmD program at the Medical College of Wisconsin (MCW). Some MCW credits will transfer back to UWM to count for a bachelor's degree in biology, microbiology, or biochemistry. Interested students should speak with the pre-pharmacy advisor during their freshman year to review the specific academic milestones that must be met and to determine which undergraduate major is best for them.

All students who indicate an interest in pre-pharmacy on their application for admission will be assigned to a pre-pharmacy advisor. We recommend students begin meeting with this advisor as soon as freshman year in order to plan all needed activities into your college career.

## Requirements

Entrance to pharmacy school is very competitive and requires strong grades and satisfactory scores on the Pharmacy College Admission Test (PCAT). Due to the variance in admission requirements, it is very important that students consult with the pre-pharmacy advisor every semester.

Although specific admission requirements may vary among schools, below are some common course requirements among many pharmacy schools:

Code	Title	Credits
BIO SCI 150 & BIO SCI 152	Foundations of Biological Sciences I and Foundations of Biological Sciences II	8
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	10
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
Select one of the following sequences:		5
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	
PHYSICS 209 & PHYSICS 214	Physics I (Calculus Treatment) and Lab Physics I (Calculus Treatment)	
Select one of the following:		4-5
MATH 231	Calculus and Analytic Geometry I	
MATH 221	Honors Calculus I	
MATH 211	Survey in Calculus and Analytic Geometry I <sup>1</sup>	

Other common course requirements include (but are not limited to) the following:

Code	Title	Credits
ENGLISH 101 & ENGLISH 102	Introduction to College Writing and College Writing and Research	6
BIO SCI 202 & BIO SCI 203	Anatomy and Physiology I and Anatomy and Physiology II	8
BIO SCI 101 or BIO SCI 383	General Survey of Microbiology <sup>2</sup> or General Microbiology	4
CHEM 501	Introduction to Biochemistry	3
MTHSTAT 215 or BIO SCI 465	Elementary Statistical Analysis or Biostatistics	3
Coursework in social sciences:		
ECON 103 or ECON 104	Principles of Microeconomics or Principles of Macroeconomics	3
PSYCH 101	Introduction to Psychology	3

Additional coursework in the social sciences

Coursework in humanities (e.g., history, philosophy)

Coursework in communication:

COMMUN 101	Introduction to Interpersonal Communication	3
COMMUN 103	Public Speaking	3

Coursework designated as satisfying the cultural diversity requirement

<sup>1</sup> Not every pharmacy school will accept MATH 211.

<sup>2</sup> Or both BIO SCI 101 and BIO SCI 383 for 8 credits.

## Pre-Physician Assistant

Physician assistants work under the supervision of a physician or surgeon to provide direct patient care. They may perform exams, order diagnostic tests, prescribe medication, make diagnoses, provide treatments and assist with surgery. Like physicians, depending on the specialty, evening, weekend, and on-call hours may be a job expectation.

The job outlook for physician assistants is extremely favorable with expected growth in the profession of 27 percent from 2022 through 2032. The shortage of all types of healthcare professionals and the aging population will create more opportunities for physician assistants.

UWM offers all of the prerequisite coursework necessary for application to physician assistant (PA) programs throughout the country. The coursework is very similar to a pre-med program with coursework in sciences and math. Since this coursework is very sequential and each class builds upon a previous class, students should plan their schedules beginning in freshman year to ensure they can complete all of the requirements in a timely manner.

The graduate level schooling to become a PA (master's degree) takes two to three years after completion of four years of college (bachelor's degree).

Pre-PA is not a major at UWM, and students must still choose a major. Since most of the prerequisites necessary for application to physician assistant programs are in the sciences, many students choose a science major, though it is not required. The most common college majors for students planning a career as a physician assistant are biology, biochemistry, chemistry, or neuroscience. Our specialized pre-PA advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to a physician assistant program.

Many individuals feel a calling to a healthcare profession after they have graduated and been working in another profession. Individuals in this situation who did not major in a science field while in college or who have low grades in previous science education will maximize their opportunity to become an admissible PA school candidate by re-taking science courses or by returning to school for a full major in a related science.

A significant number of volunteer or healthcare-related work hours is also often a requirement for application to PA school so it is important to work with the Pre-PA advisor beginning in freshman year or upon entry to the certificate program in order to plan all needed activities into your college career.

## Requirements

Requirements for admission to PA programs vary widely. However, many PA programs consider the following as minimal preparation for admission:

- One year of English;
- Mathematics through pre-calculus and statistics;
- Two to three years of chemistry, including general, organic chemistry, and biochemistry; and
- Several biology courses (see below).

Physics is rarely required.

Many PA schools specify additional courses as part of the minimal preparation for admission. Therefore, pre-PA students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly.

### Courses That Typically Satisfy PA School Admission Requirements

Code	Title	Credits
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 202	Anatomy and Physiology I <sup>1</sup>	4
BIO SCI 203	Anatomy and Physiology II <sup>1</sup>	4
BIO SCI 101 or BIO SCI 383	General Survey of Microbiology General Microbiology	4
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
CHEM 501	Introduction to Biochemistry	3
PSYCH 101	Introduction to Psychology	3
HS 222	Language of Medicine <sup>2</sup>	3
Math – one semester of pre-calculus or calculus		4
Statistics – any statistics course		3

<sup>1</sup> Some PA schools may have a three- to five-year expiration date on anatomy and physiology coursework. Please consult with the pre-PA advisor and PA schools of choice regarding your individual circumstances.

<sup>2</sup> Some PA schools may have a five-year expiration date on medical terminology coursework. Please consult with the pre-PA advisor and PA schools of choice regarding your individual circumstances.

Although the courses listed above are often required for admission to almost all PA schools, the rest of the program can be whatever the student wishes. Students are not required to major in Biological Sciences or Chemistry in order to gain admission to PA school.

## Pre-Podiatry

Podiatry is a smaller specialty field within healthcare. The profession is expected to grow at an average rate over the next ten years.

Podiatrists, also known as doctors of podiatric medicine, diagnose and treat disorders, diseases, and injuries of the foot and lower leg to keep this part of the body working properly. Podiatrists may prescribe drugs, order physical therapy, set fractures and perform surgery as a routine part of their practice. Most podiatrists are in general practice; some specialize in surgery, orthopedics, primary care or public health. Podiatry school takes approximately four years of additional study and training after four years of college. At the end, students earn the Doctor of Podiatric Medicine (DPM) degree.

There are only ten accredited schools of podiatry in the United States, and it is very competitive to get accepted for one of the very few open seats. Students should work with the Pre-Podiatry advisor starting in freshman year to ensure that they are completing the right milestones to make themselves an attractive applicant to podiatry school. It is important to understand which classes podiatry schools expect students to take during college and what types of work experience podiatry schools expect students to have before leaving college.

Pre-Podiatry is not a major, and students must still choose a major. Since most of the prerequisites necessary for application to podiatry school are in the sciences, many students choose a science major, though it is not required. Biology or biochemistry are popular choices as a major to prepare for podiatry school. Our Pre-Podiatry advisor works with students to ensure they understand all of the milestones that must be met at UWM in order to be a competitive applicant to podiatry school.

## Requirements

UWM offers a special admission track to the Rosalind Franklin University of Medicine and Science Dr. William M. Scholl College of Podiatric Medicine (<https://www.rosalindfranklin.edu/academics/dr-william-m-scholl-college-of-podiatric-medicine/>). Students who successfully complete admission requirements are offered early review and preferential admission to the Doctor of Podiatric Medicine (DPM) program. In some instances, students may enter the DPM program after only three years of undergraduate study and transfer their first year of the DPM program back to UWM to complete their Bachelor's degree. Students who elect to follow a more traditional four-year plan are still given preferential admissions status.

In addition to the suggested coursework below, it is recommended that students take a few additional upper-level social/behavioral science courses.

### Suggested Classes

Code	Title	Credits
BIO SCI 150 & BIO SCI 152	Foundations of Biological Sciences I and Foundations of Biological Sciences II	8
CHEM 102 & CHEM 104	General Chemistry and General Chemistry and Qualitative Analysis	10
CHEM 343	Organic Chemistry	3
CHEM 344	Organic Chemistry Laboratory	2
CHEM 345	Organic Chemistry	3
PHYSICS 120 & PHYSICS 121	General Physics I (Non-Calculus Treatment) and General Physics Laboratory I (Non-Calculus Treatment)	5

PHYSICS 122 & PHYSICS 123	General Physics II (Non-Calculus Treatment) and General Physics Laboratory II (Non-Calculus Treatment)	5
ENGLISH 101	Introduction to College Writing	3
ENGLISH 102	College Writing and Research	3
COMMUN 103	Public Speaking	3
PSYCH 101	Introduction to Psychology	3
<b>Total Credits</b>		<b>48</b>

## Pre-Veterinary Medicine

Employment of veterinarians is expected to grow 20 percent from 2022 to 2032, much faster than the average for all occupations, according to the U.S. Bureau of Labor Statistics. Job opportunities will exist across all types of industries: government, farm animal care, research, agriculture, wildlife management, and small animal care. Veterinary education and training takes four to eight years after the completion of four years of college.

UWM offers all of the prerequisite coursework necessary for competitive application to schools of veterinary medicine. There are only 32 veterinary schools in the United States. The application process is extremely competitive so it is important that students interested in this career path begin careful planning of their academic career during the freshman year. Requirements vary significantly from one veterinary school to another, making early planning in consultation with a Pre-Veterinarian advisor all the more vital.

Pre-Veterinary Medicine is not a major at UWM, and students must still choose a major. Since most of the prerequisites necessary for application to veterinary school are in the sciences, many students choose biology, biochemistry, or chemistry as their major. Our Pre-Veterinary advisor works with students to ensure they understand all of the milestones that must be met in college in order to be a competitive applicant to veterinary school. A significant number of volunteer or work hours is often a requirement for application to veterinary school so it is important to work with this advisor beginning in freshman year in order to plan all needed activities into your college career. Many students will work or volunteer part-time at a vet clinic, humane society, rescue organization or in another animal care setting to obtain the hands-on experience necessary to be a competitive applicant to veterinary school.

## Requirements

The vast majority of students admitted to American schools of veterinary medicine hold a bachelor's degree. An especially well-prepared student occasionally is admitted at the end of the junior year, but pre-veterinary students should plan to complete the full bachelor's degree.

All American schools of veterinary medicine require that applicants take the Graduate Record Examination (GRE). Pre-veterinary students normally should arrange to take this test at the end of their junior year. The Pre-Veterinary advisor can provide information regarding the administration of this test.

Some schools of veterinary medicine specify additional courses as part of the minimal preparation for admission. Calculus frequently is required or recommended. Therefore, pre-veterinary students should ascertain the specific requirements of the schools to which they intend to apply and plan their undergraduate programs accordingly.

## Required Coursework for Admission to Schools of Veterinary Medicine

Code	Title	Credits
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 325	Genetics	4
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 343	Organic Chemistry <sup>1</sup>	3
CHEM 344	Organic Chemistry Laboratory <sup>1</sup>	2
CHEM 345	Organic Chemistry <sup>1</sup>	3
CHEM 501	Introduction to Biochemistry	3
PHYSICS 120	General Physics I (Non-Calculus Treatment) <sup>2</sup>	4
PHYSICS 122	General Physics II (Non-Calculus Treatment) <sup>2</sup>	4
MTHSTAT 215	Elementary Statistical Analysis (or any Statistics course)	3
Select one of the following:		0-3
ENGLISH 101	Introduction to College Writing	
ENGLISH 102	College Writing and Research	
Or appropriate score on placement exam <sup>3</sup>		
<b>Total Credits</b>		<b>44-47</b>

<sup>1</sup> Some veterinary schools will accept CHEM 341/CHEM 342 instead of CHEM 343/CHEM 344/CHEM 345.

<sup>2</sup> Some veterinary schools may require a physics lab, e.g., PHYSICS 121 or PHYSICS 123.

<sup>3</sup> Even if a student tests out of English, some veterinary schools require an additional writing course.

Although the courses listed above are mandatory for admission to almost all American schools of veterinary medicine, the rest of the program can be whatever the student wishes. Students are not required to major in biology in order to gain admission to vet school, although many choose to do so because the major aligns with their interests.

## Psychology

Psychology is the science of behavior. Courses in psychology provide an understanding of the social and biological bases of behavior, proficiency in scientific methods and statistics, knowledge of the factors influencing behavior, insight into the applicability of psychological principles to everyday problems, and familiarity with many core areas of knowledge, including conditioning and learning, personality, social behavior, psychopathology and therapy, human development, health, stress and coping, gender, race and ethnicity, sensation and perception, language, memory, and individual differences.

## Programs

- Neuroscience, BS (Department of Psychology) (p. 1256)
- Psychology, BA (p. 1259)
- Psychology, BS (p. 1263)
- Psychology, Minor (p. 1267)

- Psychology, MS (p. 1267)
- Psychology, PhD (p. 1269)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Vincent J. Adesso	Professor Emeritus	PhD			✓
Caitlin R. Bowman	Assistant Professor	PhD	The Pennsylvania State University	✓	
Shawn Cahill	Associate Professor	PhD	State University of New York at Binghamton	✓	
W. Hobart Davies	Professor, Chair	PhD	Michigan State University	✓	
Marshall L. Dermer	Associate Professor Emeritus	PhD			✓
Ira Driscoll	Associate Professor	PhD	University of Lethbridge, Canada	✓	
Raymond Fleming	Professor	PhD	Uniformed Services University of the Health Sciences	✓	
Karyn Frick	Distinguished Professor	PhD	Johns Hopkins University	✓	
Deborah Hannula	Associate Professor, Associate Chair	PhD	University of Illinois at Urbana-Champaign	✓	
John C. Hay	Professor Emeritus	PhD			✓
Fred J. Helmstetter	Distinguished Professor	PhD	Dartmouth College	✓	
Michael T. Hynan	Professor Emeritus	PhD			✓
Arnold E. Kaufman	Professor Emeritus	PhD			✓
Khalil A. Khavari	Professor Emeritus	PhD			✓
Bonita Klein-Tasman	Professor	PhD	Emory University	✓	
Jennifer Kunz	Lecturer	PhD	Marquette University		
Christine Larson	Professor, Director of Clinical Training	PhD	University of Wisconsin-Madison	✓	
Han Joo Lee	Professor, Director of Graduate Studies	PhD	University of Texas-Austin	✓	
Peter Lenz	Lecturer	PhD	University of Wisconsin-Milwaukee		
Susan D. Lima	Associate Professor	PhD	University of Massachusetts-Amherst		✓
Krista Lisdahl	Professor	PhD	University of Cincinnati	✓	
Marcellus M. Merritt	Associate Professor	PhD	Howard University	✓	
John C. Moore	Professor Emeritus	PhD			✓
James R. Moyer Jr.	Associate Professor, Associate Dean of L&S Social Sciences	PhD	Northwestern University	✓	
Stacey Nye	Clinical Professor	PhD	Northwestern University		
David C. Osmon	Professor	PhD	University of South Dakota		✓
Richard H. Passman	Professor Emeritus	PhD			✓
Diane M. Reddy	Professor	PhD	Uniformed Services University of the Health Sciences	✓	
Robyn C. Ridley	Associate Professor	PhD	University of Missouri-Columbia		✓
Pamela Schaefer	Senior Lecturer Emerita	PhD	University of Wisconsin-Milwaukee		✓
Ryan Shorey	Associate Professor	PhD	University of Tennessee – Knoxville	✓	
Kristin Smith	Lecturer	PhD	University of Wisconsin-Milwaukee		
Rodney Swain	Professor	PhD	University of Southern California	✓	
Richard M. Warren	Distinguished Professor Emeritus	PhD			✓

## Neuroscience, BS (Department of Psychology)

Neuroscience is a multidisciplinary science dedicated to understanding how nervous systems are built and function at different scales, from molecules and cells to circuits and systems. Neuroscientists are involved in work to improve the human condition with new discoveries that could prevent or treat neurodevelopmental defects and disorders, psychiatric disorders, and neurodegenerative diseases.

The Neuroscience major is listed under both the Department of Biological Sciences and the Department of Psychology. The requirements are the same in both listings.

A neuroscience major is an excellent starting point for a career in human or animal medicine, psychology, medical research, pharmaceuticals, public health or science writing. Entry level jobs for students with a bachelor's degree include positions as assistants in hospitals and private healthcare clinics; as technicians in academic, governmental, or commercial research laboratories; in pharmaceutical sales and marketing; and in government agencies and nonprofits in roles related to grant writing, regulatory management, or technical assistance. Many of these occupational areas are projected to grow faster than average in the next decade. The average annual salary for a neuroscientist with a BS degree is \$66,975 (as of 2021). The major is also excellent preparation for students pursuing doctoral degrees in medicine, medical research, or professional counseling.

The courses for the major come primarily from the Department of Biological Sciences and the Department of Psychology. Students will learn about the structure and function of nervous systems, from the cellular level to the systems level; the connections between the brain and behavior; experimental design and research methods; and data analysis, interpretation, and use. Within the major students can take coursework in neuroscience subdisciplines such as cognitive, cellular and molecular, or computational neuroscience.

### Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)
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#### *Part B*

Course designated as OWC-B; may be completed through a major-specific course requirement

#### **Quantitative Literacy**

##### *Part A*

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra

Or equivalent course

##### *Part B*

Course designated as QL-B; may be completed through a major-specific course requirement

#### **Arts**

Select 3 credits 3

#### **Humanities**

Select 6 credits 6

#### **Social Sciences**

Select 6 credits 6

#### **Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

#### **UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

#### **UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or



2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4
MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

## Declaring the Major

To be accepted as a major in Neuroscience, students must have completed both PSYCH 101 and BIO SCI 150 with a C or better in each of those classes.

## Degree Requirements

The program requires at least 120 credits, which include University-wide General Education Requirements (p. 30), 24 credits of mandatory preparatory courses, 23-24 credits of required core courses, 11 credits of elective courses within the major, a research experience course at the end of the coursework, and additional elective courses to fulfill the overall credit requirement.

An overall GPA of 2.000 on all coursework attempted at UWM is required for this degree. In addition, students must achieve a 2.000 GPA on all coursework attempted, including transfer work. A minimum 2.000 GPA must be earned on all 300-level and above courses taken to satisfy the advanced requirements. Students satisfy the residency requirement for the degree at UWM by completing at least 15 credits in the upper-division (numbered 300 or above) courses in the major.

Code	Title	Credits
<b>Preparatory courses</b>		
<i>Chemistry</i>		
CHEM 102	General Chemistry	5
CHEM 104	General Chemistry and Qualitative Analysis	5
CHEM 343	Organic Chemistry	3
CHEM 345	Organic Chemistry	3
<i>Physics</i>		
PHYSICS 120	General Physics I (Non-Calculus Treatment)	4

or PHYSICS 209	Physics I (Calculus Treatment)	
PHYSICS 122	General Physics II (Non-Calculus Treatment)	4
or PHYSICS 210	Physics II (Calculus Treatment)	

**Total Credits** **24**

Code	Title	Credits
<b>Required courses</b>		
<i>Biological Sciences</i>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 152	Foundations of Biological Sciences II	4
BIO SCI 315	Cell Biology	3
BIO SCI 455	Cellular, Molecular and Developmental Neurobiology	3
<i>Psychology</i>		
PSYCH 101	Introduction to Psychology	3
PSYCH 254	Introduction to Neuroscience	3
<i>One of these courses in statistics:</i>		3-4
BIO SCI 465	Biostatistics	
MTHSTAT 215	Elementary Statistical Analysis	
PSYCH 210	Psychological Statistics	

**Total Credits** **23-24**

Code	Title	Credits
<b>Required research experience (select one of the options below)</b>		
NEURO 690	Undergraduate Research in Neuroscience	3
BIO SCI 672	Undergraduate Seminar in Cell and Molecular Biology	1
BIO SCI 697	Independent Study in Cell and Molecular Biology <sup>1</sup>	1-3
BIO SCI 699	Independent Study <sup>1</sup>	1-3
PSYCH 654	Advanced Behavioral Neuroscience	4
PSYCH 656	Psychophysiology	4

<sup>1</sup> These independent study courses may be counted toward the research requirement in the Neuroscience major only with approval of the student's Neuroscience faculty advisor.

Code	Title	Credits
<b>Elective courses (select courses to complete 11 credits from the options below)</b>		
BIO SCI 203	Anatomy and Physiology II	4
BIO SCI 290	Independent Study and Research:	1-3
BIO SCI 316	Laboratory in Genetics and Cell Biology	2
BIO SCI 325	Genetics	4
BIO SCI 356	Developmental Biology	3
BIO SCI 370	Mammalian Physiology	3
BIO SCI 469	Genomic Data Analysis	2
BIO SCI 490	Molecular Genetics	3
BIO SCI 539	Laboratory Techniques in Molecular Biology	4
BIO SCI 542	Biological Electron Microscopy	3

BIO SCI 543	Scanning Electron Microscopy Laboratory	2
BIO SCI 544	Transmission Electron Microscopy Laboratory	3
BIO SCI 564	Endocrinology	3
BIO SCI 565	Gene Regulation in Stem Cells and Regeneration	3
BIO SCI 566	Cell Biology of Human Disease	3
BIO SCI 572	Functional Genomics	3
BIO SCI 672	Undergraduate Seminar in Cell and Molecular Biology	1
BIO SCI 697	Independent Study in Cell and Molecular Biology	1-3
BMS 610	Pharmacology	3
CHEM 501	Introduction to Biochemistry	3
PSYCH 214	Introduction to Conditioning and Learning	3
PSYCH 290	Undergraduate Research: Lower Division	1-3
PSYCH 325	Research Methods in Psychology	4
PSYCH 433	Neuropsychology	3
PSYCH 454	Psychopharmacology and Addiction	3
PSYCH 503	Perception	3
PSYCH 510	Advanced Psychological Statistics	3
PSYCH 514		4
PSYCH 610	Experimental Design	3
PSYCH 611	Current Topics:	3
PSYCH 623	Perceptual Processes	4
PSYCH 627	Cognitive Neuroscience	3
PSYCH 645	Hormones and Behavior	3
PSYCH 654	Advanced Behavioral Neuroscience <sup>2</sup>	4
PSYCH 656	Psychophysiology <sup>2</sup>	4
PSYCH 657	Neurobiology of Learning and Memory	3
PSYCH 682	The Aging Brain	3
PSYCH 690	Undergraduate Research: Upper Division	1-3

<sup>2</sup> If not taken to satisfy research experience requirement.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;

- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Psychology, BA

Psychology is a science that provides critical insights into human behavior. Psychologists investigate how behavior is modified in the face

of psychiatric disorders or disease and how the brain gives rise to the rich tapestry of behaviors that govern our day-to-day experiences.

A psychology major gives you much career flexibility because of its emphasis on reasoning, problem solving, critical thinking, communication, research and writing. In addition to becoming a counselor or therapist, many students go into human resources, sales, marketing, business management, law, medicine, social work, real estate, social services, and more – all fields that require comprehensive knowledge of human behavior.

Many students go on to graduate school to pursue specialized training. This may lead to a career as a counselor, therapist, or research scientist. In most states, a master's degree is required to become a licensed practitioner. At UWM, our Psychology major can be tailored: the Bachelor of Arts route is ideal for students planning a career in human services while the Bachelor of Science route focuses on neuroscience and is well-suited for students looking to go into a graduate research program or medical school.

The version of the major that leads to a Bachelor of Arts can be completed entirely on-line if that is desired.

Psychology students at UWM have a distinct advantage – they can participate in research as undergraduates, sometimes even as soon as freshman year. In psychology labs, students work directly with faculty and graduate students on their current research projects, and sometimes contribute as co-authors to peer-reviewed presentations or publications. In addition, a number of psychology students complete Field Placements. The Field Placement is similar to an internship and permits students to step out of the traditional classroom setting and volunteer with a community organization that has a mission consistent with the psychology degree. In each case, our students acquire fundamental skills, have opportunities to explore and refine their interests, and establish meaningful connections that permit them to make informed decisions about their future pursuits.

## Psychology Major Requirements

The Department of Psychology offers a major in psychology leading to either the Bachelor of Arts or Bachelor of Science degree. Except for an advanced natural science credit requirement for the BS, the psychology requirements for the BS and BA degrees are the same; however, students should check the general requirements for the degree (e.g., general education requirements) carefully as they differ for the BA and BS. Students opting for the BS will need to complete at least 30 credits in approved advanced L&S natural science courses, at least 15 of which must be completed in Psychology.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they

entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	

BIO SCI 465	Biostatistics
ECON 210	Economic Statistics
GEOG 247	Quantitative Analysis in Geography
HIST 595	The Quantitative Analysis of Historical Data
MTHSTAT 215	Elementary Statistical Analysis
PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation.**		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Declaring the Major

To be accepted as a major in psychology, students must have completed PSYCH 101 and 15 university credits.

## Psychology Major Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition,

students must attain a 2.0 GPA on all major credits attempted, including any transfer work. The undergraduate major consists of at least 32 credits in psychology, at least 15 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses:

Code	Title	Credits
<b>Core Courses</b>		
PSYCH 101	Introduction to Psychology	3
Select one of the following:		3-4
PSYCH 210	Psychological Statistics	
Or other statistics course as approved by department		
PSYCH 254	Introduction to Neuroscience	3
PSYCH 325	Research Methods in Psychology	4
Select one of the following:		3
PSYCH 205	Personality	
PSYCH 211	Current Topics in Psychology:	
PSYCH 214	Introduction to Conditioning and Learning	
PSYCH 230	Social Psychology: Psychological Perspectives	
PSYCH 260	Child Psychology	
<b>Upper-Level Courses</b>		
Select one of the following:		16-17
Select one advanced laboratory course and four Systems and Foundations courses (16 credits)		
Select two advanced laboratory courses and three Systems and Foundations courses (17 credits)		
<b>Total Credits</b>		<b>32-34</b>

## Research Experience

The College of Letters and Science requires that students complete a research experience in their major. The Department of Psychology has structured its advanced laboratory courses to satisfy that requirement. In these laboratory courses, students run multiple experiments, collect and analyze data quantitatively, and write up the results in a standard journal article format, integrating the results with a critical survey of relevant professional literature. The Systems and Foundations courses are non-laboratory, upper-level courses designed to provide in-depth knowledge on specific topics in psychology. Students are welcome to take additional Systems and Foundations courses as electives.

Code	Title	Credits
PSYCH 502	Applied Behavior Analysis	4
PSYCH 505	Cognitive Processes	4
PSYCH 514		4
PSYCH 623	Perceptual Processes	4
PSYCH 654	Advanced Behavioral Neuroscience	4
PSYCH 656	Psychophysiology	4
PSYCH 660	Experimental Child Psychology	4
PSYCH 677	Experimental Social Psychology	4

## Cross-Listed Courses

The following courses offered by other academic units may be used to fulfill requirements of the undergraduate major in psychology:

Code	Title	Credits
BIO SCI 455	Cellular, Molecular and Developmental Neurobiology	3
BUS ADM 442	Industrial Psychology	3

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Psychology majors who meet the following criteria are awarded Honors in the Major:

1. A 3.000 cumulative GPA on all credits attempted;
2. A 3.500 GPA on all credits that count toward the major; and
3. A 3.500 GPA on all advanced credits that count toward the major.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Psychology, BS

Psychology is a science that provides critical insights into human behavior. Psychologists investigate how behavior is modified in the face of psychiatric disorders or disease and how the brain gives rise to the rich tapestry of behaviors that govern our day-to-day experiences.

A psychology major gives you much career flexibility because of its emphasis on reasoning, problem solving, critical thinking, communication, research and writing. In addition to becoming a counselor or therapist, many students go into human resources, sales, marketing, business management, law, medicine, social work, real estate, social services, and more – all fields that require comprehensive knowledge of human behavior.

Many students go on to graduate school to pursue specialized training. This may lead to a career as a counselor, therapist, or research scientist. In most states, a master's degree is required to become a licensed practitioner. At UWM, our Psychology major can be tailored: the Bachelor of Arts route is ideal for students planning a career in human services while the Bachelor of Science route focuses on neuroscience and is well-suited for students looking to go into a graduate research program or medical school.

The version of the major that leads to a Bachelor of Arts can be completed entirely on-line if that is desired.

Psychology students at UWM have a distinct advantage – they can participate in research as undergraduates, sometimes even as soon as freshman year. In psychology labs, students work directly with faculty and graduate students on their current research projects, and sometimes contribute as co-authors to peer-reviewed presentations or publications. In addition, a number of psychology students complete Field Placements. The Field Placement is similar to an internship and permits students to step out of the traditional classroom setting and volunteer with a community organization that has a mission consistent with the psychology degree. In each case, our students acquire fundamental skills,

have opportunities to explore and refine their interests, and establish meaningful connections that permit them to make informed decisions about their future pursuits.

## Psychology Major Requirements

The Department of Psychology offers a major in psychology leading to either the Bachelor of Arts or Bachelor of Science degree. Except for an advanced natural science credit requirement for the BS, the psychology requirements for the BS and BA degrees are the same; however, students should check the general requirements for the degree (e.g., general education requirements) carefully as they differ for the BA and BS. Students opting for the BS will need to complete at least 30 credits in approved advanced L&S natural science courses, at least 15 of which must be completed in Psychology.

## Course of Study – Bachelor of Science Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses and 30 of those 36 credits in designated Advanced Natural Science courses (<https://catalog.uwm.edu/letters-science/approved-courses-advanced-natural-science/>). The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	

MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) placing beyond English 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, Bachelors of Sciences degree students must satisfy the following two requirements:

1. Complete one of the following courses or an equivalent course:

Code	Title	Credits
MATH 211	Survey in Calculus and Analytic Geometry I	4



MATH 213	Calculus with Life Sciences Applications	4
MATH 221	Honors Calculus I	5
MATH 231	Calculus and Analytic Geometry I	4

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BS, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Two courses (minimum of 6 credits) in a language (including American Sign Language) other than English at the 100 level or above are required.

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		
9		
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above.		

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including laboratory or field courses from three different curricular areas. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a

2.0 GPA on all minor credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation.

## Declaring the Major

To be accepted as a major in psychology, students must have completed PSYCH 101 and 15 university credits.

## Psychology Major Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. The undergraduate major consists of at least 32 credits in psychology, at least 15 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses:

Code	Title	Credits
<b>Core Courses</b>		
PSYCH 101	Introduction to Psychology	3
Select one of the following:		3-4
PSYCH 210	Psychological Statistics	
Or other statistics course as approved by department		
PSYCH 254	Introduction to Neuroscience	3
PSYCH 325	Research Methods in Psychology	4
Select one of the following:		3
PSYCH 205	Personality	
PSYCH 211	Current Topics in Psychology:	
PSYCH 214	Introduction to Conditioning and Learning	
PSYCH 230	Social Psychology: Psychological Perspectives	
PSYCH 260	Child Psychology	
<b>Upper-Level Courses</b>		
Select one of the following:		16-17
Select one advanced laboratory course and four Systems and Foundations courses (16 credits)		
Select two advanced laboratory courses and three Systems and Foundations courses (17 credits)		
<b>Total Credits</b>		<b>32-34</b>

## Research Experience

The College of Letters and Science requires that students complete a research experience in their major. The Department of Psychology has structured its advanced laboratory courses to satisfy that requirement. In these laboratory courses, students run multiple experiments, collect and analyze data quantitatively, and write up the results in a standard journal article format, integrating the results with a critical survey of relevant professional literature. The Systems and Foundations courses are non-laboratory, upper-level courses designed to provide in-depth knowledge on specific topics in psychology. Students are welcome to take additional Systems and Foundations courses as electives.

Code	Title	Credits
PSYCH 502	Applied Behavior Analysis	4
PSYCH 505	Cognitive Processes	4
PSYCH 514		4
PSYCH 623	Perceptual Processes	4

PSYCH 654	Advanced Behavioral Neuroscience	4
PSYCH 656	Psychophysiology	4
PSYCH 660	Experimental Child Psychology	4
PSYCH 677	Experimental Social Psychology	4

## Cross-Listed Courses

The following courses offered by other academic units may be used to fulfill requirements of the undergraduate major in psychology:

Code	Title	Credits
BIO SCI 455	Cellular, Molecular and Developmental Neurobiology	3
BUS ADM 442	Industrial Psychology	3

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Psychology majors who meet the following criteria are awarded Honors in the Major:

1. A 3.000 cumulative GPA on all credits attempted;
2. A 3.500 GPA on all credits that count toward the major; and
3. A 3.500 GPA on all advanced credits that count toward the major.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Psychology, Minor

Psychology is a science that provides critical insights into human behavior. Psychologists investigate how behavior is modified in the face of psychiatric disorders or disease and how the brain gives rise to the rich tapestry of behaviors that govern our day-to-day experiences.

The minor in Psychology can be completed entirely on-line if that is desired.

Psychology students at UWM have a distinct advantage – they can participate in research as undergraduates, sometimes even as soon as freshman year. In psychology labs, students work directly with faculty and graduate students on their current research projects, and sometimes contribute as co-authors to peer-reviewed presentations or publications.

## Declaring the Minor

To be accepted as a minor in psychology, students must have completed PSYCH 101.

## Requirements

The College of Letters and Science requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

The undergraduate minor consists of 18 credits in psychology, at least 9 of them at the advanced level (300 or above) taken in residence at UWM, including the following core courses:

Code	Title	Credits
PSYCH 101	Introduction to Psychology	3
Select one of the following:		3
PSYCH 205	Personality	
PSYCH 210	Psychological Statistics	
PSYCH 211	Current Topics in Psychology:	
PSYCH 214	Introduction to Conditioning and Learning	
PSYCH 230	Social Psychology: Psychological Perspectives	
PSYCH 254	Introduction to Neuroscience	
PSYCH 260	Child Psychology	
Select any four additional psychology courses, at least three of which must be at the 300 level or above		12
<b>Total Credits</b>		<b>18</b>

Please note: If you are considering a potential major in Psychology, it is recommended highly that you take PSYCH 210 and PSYCH 325 as these are required for the major.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Psychology, MS

The Department of Psychology offers two graduate degrees: the PhD in Psychology and the MS in Psychology. Study is available in the following concentrations, which we refer to as programs.

## PhD in Psychology (includes earning the MS)

- Clinical Psychology program (accredited by the American Psychological Association)
- Health Psychology program
- Neuroscience program<sup>1</sup>

## MS in Psychology

- Terminal Health Psychology program.

<sup>1</sup> Please note that the Department of Biological Sciences and several other departments also offer opportunities for doctoral study in neuroscience.

All programs train students in the facts, methodologies, and theories of psychology, with special emphasis on developing research competence. The department has well-equipped laboratories and an on-campus training clinic. The city of Milwaukee provides additional opportunities for training at hospitals, social service agencies, and the Medical College of Wisconsin.

Note that all of the department's doctoral programs are actually combined MS/PhD programs, although students who already have a master's degree in psychology or neuroscience are also encouraged to apply. If admitted, they will not be required to earn the MS at UWM if their master's degree included an empirically based thesis.

Transfer from a PhD program to any another PhD program in our department requires reapplication.

Although it is possible for the academic portion of the doctoral program to be completed in four years, most students require five or more years. Doctoral students are expected to be enrolled full time and to earn their PhDs within seven years of initial enrollment, exclusive of the one-year internship required in the clinical program.

Students seeking only master's-level training may apply to the health psychology specialization. It is possible to complete requirements for the MS in two or three years of full-time study. Part-time study is allowable, as long as the MS is earned within seven years of enrolling.

The department refers students interested in Counseling Psychology or School Psychology to the Department of Educational Psychology.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Application must be made to the Graduate School.

Applicants are admitted only at the beginning of each academic year. Applications must be submitted by December 1. Important: It is essential to consult the department's website for important information, including the departmental admissions brochure (<http://uwm.edu/psychology/graduate/application/>).

An applicant must meet Graduate School (<http://uwm.edu/graduateschool/admission/>) requirements plus the following departmental requirements to be considered for admission to the program:

1. Completion of an undergraduate major in psychology (or neuroscience).

2. Receipt of positive recommendation by the Departmental Admissions Committee.

Admission is based on evaluation of an applicant's entire record. In evaluating each application, the Admissions Committee examines such factors as grades, research record (e.g., research apprenticeships, publications, presentations, and senior or honors theses), and letters of recommendation.

Students without an undergraduate major in psychology or neuroscience are welcome to apply, and will be evaluated on a case-by-case basis. If they are offered admission, they will be informed about any additional courses that would need to be taken at UWM (in addition to the required graduate coursework) to fill gaps in training.

As part of their doctoral requirements, PhD students must earn a master's degree in psychology that includes a thesis derived from empirical research; they do this by fulfilling the requirements of the "General Psychology Track" for the MS degree while enrolled simultaneously in the PhD program. An exception is that students who already have earned a master's degree based on an empirical thesis in psychology or neuroscience from another college or university are exempt from the requirement of earning the MS in our department.

## Credits and Courses

### General Psychology Track

Students in the general psychology track must be simultaneously enrolled in the doctoral program. The minimum requirement for the MS is 30 graduate credits of psychology, 24 of which must be earned in formal coursework (excluding practica) and 6 of which must be earned through an acceptable thesis.

### Thesis

The student, under the direction of an advisor, must develop an acceptable thesis based on empirical research. The student must pass an oral examination in defense of the thesis.

### Time Limit

The student must complete all degree requirements within three years of initial enrollment.

### Specialization in Health Psychology

Health psychology is concerned with the psychological variables that influence physical health and illness. The MS program in health psychology offers training in research and theories relevant to health promotion. The program of study consists of core health psychology coursework, research coursework, psychology breadth coursework, and an optional field placement. Current research topics include gender and health, cancer prevention and health education, reproductive health and STD prevention, patient advocacy and self-care behaviors, the effects of stress and mechanisms of coping with it, and child abuse prevention. Research is conducted in the laboratory as well as in clinical settings, and many members of the faculty have strong ties to the Milwaukee community.

### Course of Study

The course of study consists of at least 36 credits, distributed as follows:

Code	Title	Credits
<b>Core Health Psychology Courses (12 Credits)</b>		
PSYCH 955	Seminar in Social Psychology and Health	3

Select three of the following: 9

PSYCH 578	Psychology of Race, Ethnicity, and Health	
PSYCH 754	Proseminar in Neuroscience	
PSYCH 756	Psychophysiology	
PSYCH 711	Current Topics in Psychology: (health-related topic)	
PSYCH 833	Neuropsychology	
PSYCH 854	Behavioral Neuroscience	
PSYCH 930	Seminar in Social Psychology	

#### Research Coursework (15 credits)

PSYCH 510	Advanced Psychological Statistics (or an acceptable equivalent course)	3
PSYCH 610	Experimental Design (or an acceptable equivalent course)	3
PSYCH 790	Masters Research	6
PSYCH 890	Graduate Research (or an acceptable equivalent course, as determined by area faculty)	3

#### Breadth coursework (9 credits)

Select 9 credits in consultation with an advisor 9

**Total Credits 36**

The MS specialty in health psychology emphasizes the application of psychological theories to health-related issues. Although students are exposed to theories and applications in coursework, the field placement option offers a further opportunity to learn by doing. Students are encouraged to take at least 3 credits of PSYCH 812 in their area of interest.

## Additional Requirements

### Advising and the Major Professor

Graduate School and departmental regulations require students to have a major professor to direct their research activities. It is important for students to start their research early in their graduate studies. Admittees are assigned to a major professor they have chosen during the admissions process.

Before the end of the second semester, the student must form an advisory committee of three departmental faculty members, including the student's major professor. Students are free to change their major professor at any time. The Department also provides a Graduate Program Coordinator, who advises about courses and program requirements and who approves programs of study. The Graduate Program Coordinator is also available to help students who wish to change their major professors to find new ones.

### Thesis or Project

The student, under the direction of an advisor, has the option of developing either an acceptable thesis based on empirical research or an acceptable project (a review or theoretical paper). In either case, students must demonstrate their ability to formulate a research idea and pursue independent and original investigation. The student must pass an oral examination in defense of the thesis, but no oral examination is required for a project.

### Time Limit

The student must complete all requirements within seven years of initial enrollment.

## Psychology, PhD

The Department of Psychology offers two graduate degrees: the PhD in Psychology and the MS in Psychology. Study is available in the following concentrations, which we refer to as programs.

### PhD in Psychology (includes earning the MS)

- Clinical Psychology program (accredited by the American Psychological Association)
- Health Psychology program
- Neuroscience program<sup>1</sup>

### MS in Psychology

- Terminal Health Psychology program.

<sup>1</sup> Please note that the Department of Biological Sciences and several other departments also offer opportunities for doctoral study in neuroscience.

All programs train students in the facts, methodologies, and theories of psychology, with special emphasis on developing research competence. The department has well-equipped laboratories and an on-campus training clinic. The city of Milwaukee provides additional opportunities for training at hospitals, social service agencies, and the Medical College of Wisconsin.

Note that all of the department's doctoral programs are actually combined MS/PhD programs, although students who already have a master's degree in psychology or neuroscience are also encouraged to apply. If admitted, they will not be required to earn the MS at UWM if their master's degree included an empirically based thesis.

Transfer from a PhD program to any another PhD program in our department requires reapplication.

Although it is possible for the academic portion of the doctoral program to be completed in four years, most students require five or more years. Doctoral students are expected to be enrolled full time and to earn their PhDs within seven years of initial enrollment, exclusive of the one-year internship required in the clinical program.

Students seeking only master's-level training may apply to the health psychology specialization. It is possible to complete requirements for the MS in two or three years of full-time study. Part-time study is allowable, as long as the MS is earned within seven years of enrolling.

The department refers students interested in Counseling Psychology or School Psychology to the Department of Educational Psychology.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

Application must be made to the Graduate School.

Applicants are admitted only at the beginning of each academic year. Applications must be submitted by December 1. Important: It is essential to consult the department's website for important information, including the departmental admissions brochure (<https://uwm.edu/psychology/graduate/application/>).

An applicant must meet Graduate School requirements and the following departmental requirements to be considered for admission to the program:

1. Completion of an undergraduate major in psychology (or neuroscience).
2. Receipt of a positive recommendation by the Departmental Admissions Committee.

Admission is based on evaluation of an applicant's entire record. In evaluating each application, the Admissions Committee examines such factors as grades, research record (e.g., research apprenticeships, publications, presentations, and senior or honors theses), and letters of recommendation.

Students without an undergraduate major in psychology or neuroscience are welcome to apply, and will be evaluated on a case-by-case basis. If they are offered admission, they will be informed about any additional courses that would need to be taken at UWM (in addition to the required graduate coursework) to fill gaps in training.

As part of their doctoral requirements, PhD students must earn a master's degree in psychology that includes a thesis derived from empirical research; they do this by fulfilling the requirements of the "General Psychology Track" for the MS degree while enrolled simultaneously in the PhD program. An exception is that students who already have earned a master's degree based on an empirical thesis in psychology or neuroscience from another college or university are exempt from the requirement of earning the MS in our department.

## Credits and Courses

The minimum degree requirement is 54 graduate credits beyond the bachelor's degree, at least 27 of which must be earned in residence at UWM.

### Departmental Doctoral Curriculum

Only courses numbered 700 or above and a few departmentally-designated undergraduate/graduate courses, including PSYCH 510 and PSYCH 610, may be counted in the doctoral curriculum, which is specified in the department's Doctoral Student Handbook (<http://uwm.edu/psychology/graduate/doctoral-student-handbook/>).

### Clinical Psychology Curriculum

The Clinical Psychology curriculum consists of a sequence of required clinical courses, including courses in professional ethics, issues, and research methods in clinical psychology; developmental psychopathology; foundations of psychotherapy; assessment (two semesters); and empirically-supported interventions. Other required courses include a two-course statistics sequence, history of psychology, multicultural issues in counseling or clinical psychology, and lifespan

developmental psychology. Also, Clinical Psychology students must fulfill American Psychological Association (APA) requirements by completing one course from each of the following areas: biological bases of behavior, cognitive/affective bases of behavior, and social bases of behavior.

In addition to classroom courses, students also must complete a sequence of practicum and community placement courses for intensive training in assessment, diagnosis, therapy, and professional practice and, later, a pre-doctoral, extramural, full-time (2,000 hours) internship. Students should consult the department's Doctoral Student Handbook (<http://uwm.edu/psychology/graduate/doctoral-student-handbook/>) for details.

Completion of a departmental minor is optional for clinical students (available areas: Cognition and Perception, Developmental Psychology, Health Psychology, Neuroscience, and Quantitative Methods).

The clinical program strongly adheres to the scientist-practitioner model of training. It is designed to train psychologists as generalists. However, our faculty members interests cluster in three primary areas including neuroscience/neuropsychology, cognitive/behavioral and behavioral therapies, and pediatric/health psychology. As a result, students often leave the clinical program with a focus in one or more of these areas. The clinical program is accredited by the American Psychological Association (APA).<sup>1</sup> The program has been accredited continually since 1980.

In addition, the clinical program is a member of the Academy of Psychological Clinical Science. Membership in the Academy is granted only after a thorough peer review process. Our membership in the Academy indicates our commitment to excellence in scientific training and to using clinical science as the foundation for designing, implementing, and evaluating assessment and intervention procedures.

<sup>1</sup> Office of Program Consultation and Accreditation 750 First Street, NE Washington, DC 20002-4242. Phone: 202-336-5979.

Code	Title	Credits
	Clinical Psychology Sequence	48
	Statistics	6
	History of Psychology	3
	Breadth Requirement	9
	Multicultural Issues	3
	Developmental Psychology	3
	Research Credits	12
<b>Total Credits</b>		<b>84</b>

### Health Psychology Curriculum

The Health Psychology curriculum consists of a core course in health psychology, two other courses in health psychology chosen in consultation with the major professor, a two-course statistics sequence, completion of two departmental minor areas of study (available areas: Cognition and Perception, Developmental Psychology, Neuroscience, Psychopathology, and Quantitative Methods) and one breadth course chosen in consultation with the major professor. Students should consult the department's Doctoral Student Handbook (<http://uwm.edu/psychology/graduate/doctoral-student-handbook/>) for details.

Health psychology, which is concerned with the psychological variables that influence physical health and illness, has become a dominant force in the health sciences. The program offers training in research and theories relevant to health promotion. Faculty members and

students work together on projects focused on gender and health, cancer prevention and health education, reproductive health and STD prevention, patient advocacy and self-care behaviors, the effects of stress and mechanisms of coping with it, and child abuse prevention. Research is conducted in the laboratory as well as in clinical settings, and many members of the faculty have strong ties to the Milwaukee community.

Code	Title	Credits
	Health Psychology Courses	9
	Breadth Requirement	3
	Statistics	6
	Departmental Minors and Research Credits	36
	Minimum 18 Research Credits	
<b>Total Credits</b>		<b>54</b>

## Neuroscience Curriculum

The Neuroscience curriculum includes four core courses (behavioral neuroscience, cellular and molecular neuroscience, cognitive neuroscience, and proseminar in biological psychology). Other required courses include a statistics course, seminar in neuroscience (three semesters of official enrollment), and three electives, chosen in consultation with the major professor. Students should consult the department's Doctoral Student Handbook (<http://uwm.edu/psychology/graduate/doctoral-student-handbook/>) for details.

Neuroscience is devoted to the study of the nervous system. The curriculum is designed to provide students with the intellectual and technical skills necessary for a productive career in academics or industry. Students are part of the greater Milwaukee Area Neuroscience group, which includes faculty members and students from various departments at UWM, the Medical College of Wisconsin, and Marquette University. Students learn a wide range of techniques working with laboratory animals and human subjects. These include experimental design, behavioral testing and analysis, neurophysiology, aseptic surgical techniques, quantitative protein and mRNA assays, immunohistochemistry, eyetracking, and functional magnetic resonance imaging (fMRI). Current research topics include cellular and molecular mechanisms of learning and memory; mapping brain areas involved in memory and emotion in humans and rodents using fMRI; effects of exercise on cerebral blood flow; mechanisms of recovery from brain damage; visual attention; effects of aging on learning and memory; and the role of calcium and calcium-binding proteins in ischemic cell death.

Code	Title	Credits
	Neuroscience Courses	12
	Neuroscience Seminar	6
	Statistics	3
	Additional Courses	33
	Minimum 21 credits in Research	
<b>Total Credits</b>		<b>54</b>

## Additional Requirements

### Advising and the Major Professor

Graduate School and departmental regulations require students to have a major professor to direct their research activities. Entering students are assigned to the major professor they have chosen during the admissions process. Students are free to change their major professor at any time. The Department provides a Graduate Program Coordinator, who advises about courses and program requirements and who approves programs

of study. The Graduate Program Coordinator also is available to help any student who wishes to change their major professor.

### Multicultural Requirement

Clinical students must complete a course in multicultural issues in clinical or counseling psychology.

### Developmental Psychology Requirement

Clinical students must complete a graduate-level lifespan developmental psychology course.

### Extrdepartmental Minors and Certificates (optional)

If they wish, and with the approval of their major professors, students may complete, in another department, a coherent program of at least 8 graduate credits (undergraduate/graduate courses taken for graduate credit apply). They may also, if they wish, complete one or more graduate certificate programs.

### Residence

The student must meet minimum Graduate School residence requirements. Please note the requirement of earning at least 27 graduate credits at UWM. For more information on residence, see the Graduate School Doctoral Requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>) page.

### Doctoral Preliminary Examination

Students must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree. The preliminary examination can be taken only after the master's degree has been earned and all relevant coursework has been completed satisfactorily. The format of the examination depends on the program. Specific guidelines for preliminary examinations can be found in the department's Doctoral Student Handbook (<http://uwm.edu/psychology/graduate/doctoral-student-handbook/>).

### Clinical Internship Requirement

With the approval of the department's Clinical Training Committee, clinical students are eligible to begin a required one-year, 2,000-hour internship after they have passed the preliminary examination and the doctoral dissertation proposal hearing.

### Clinical Coursework for Dissertators

Clinical students are permitted to take practicum courses PSYCH 811 and PSYCH 842 after achieving dissertator status. This is an exception to UW System policy regarding coursework loads for dissertators that is approved because of the nature of the clinical program.

### Dissertation Defense

The candidate must write a dissertation that demonstrates the ability to formulate a research topic and pursue independent and original investigation. A doctoral dissertation committee must have at least four members, at least three of whom must be tenure-track or tenured faculty in the UWM Department of Psychology who hold Graduate Faculty status. A maximum of two committee members can be individuals who have doctoral degrees but who do not have Graduate Faculty status at UWM.

### Final Oral Examination

The candidate must, as the final step toward the degree, pass an oral examination in defense of the dissertation.

## Time Limit

The student must complete all degree requirements within seven years of initial enrollment (four years if entering with a master's degree), excluding internship.

For additional information on the PhD, see the Graduate School Doctoral Requirements (<https://uwm.edu/graduateschool/students/academic-policies-and-procedures/doctoral-resources/doctoral-requirements/>) page.

## Public and Non-Profit Administration

The public and nonprofit administration unit (PNA) houses several graduate programs but also offers some courses at the undergraduate level. PNA oversees the following graduate programs:

- Master of Science in Nonprofit Management and Leadership
- Master of Public Administration
- Graduate Certificate in Nonprofit Management

PNA partners with the Urban Planning program within the College of the Arts & Architecture to offer a coordinated Master of Public

Administration/Master of Urban Planning program. Additionally, PNA partners with the Helen Bader School of Social Welfare within the College of Community Engagement & Professions to offer a joint Master of Science in Criminal Justice and a Master of Public Administration.

Undergraduate courses in public administration will provide a background for students interested in pursuing graduate degrees in the field and those who wish to enhance their studies in another program with an understanding of the administration of public and nonprofit programs.

- Nonprofit Management and Leadership, MS (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1273)
- Nonprofit Management, Graduate Certificate (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1274)
- Public Administration, MPA (College of Letters and Science, Department of Public and Nonprofit Administration) (p. 1275)
- Public Administration, MPA/Criminal Justice and Criminology, MS (p. 1277)
- Public Administration, MPA/Urban Planning, MUP (p. 1278)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Layth Alwan	Associate Professor (Business)	PhD	University of Chicago	✓	
Erica Bornstein	Associate Professor (Anthropology)	PhD	University of California-Irvine	✓	
Sarah Freeman	Associate Professor (Business)	PhD	University of Michigan	✓	
Shale A. Horowitz	Professor	PhD	University of California-Los Angeles		
Douglas M. Ihrke	Professor, Chair, Director of Nonprofit Administration, Director of Public Administration)	PhD	Northern Illinois University	✓	
Laestadius Linnea	Assistant Professor (Public Health)	PhD	Johns Hopkins University	✓	
Larry Martin	Professor (Administrative Leadership)	PhD	University of Wisconsin-Madison	✓	
Daniel Neely	Associate Professor (Business)	PhD	University of Houston	✓	
Deborah Padgett	Associate Professor (Social Work)	PhD	Washington University	✓	
James A. Peoples	Professor	PhD	University of California-Berkeley		
Laura Peracchio	Professor (Business)	PhD	Northwestern University	✓	
Belle Rose Ragins	Professor (Business)	PhD	University of Tennessee	✓	
Romila Singh	Associate Professor (Business)	PhD	Drexel University	✓	



# Nonprofit Management and Leadership, MS (College of Letters and Science, Department of Public and Nonprofit Administration)

The College of Letters & Science and the Lubar College of Business offer a Master of Science in Nonprofit Management and Leadership. The program is designed to provide students with the essential theoretical and practical knowledge and skills to manage and lead nonprofit sector organizations successfully.

Courses address the full range of skills needed to serve nonprofit organizations effectively, including financial management, resource development, governance, organizational leadership, and program planning and accountability. Both students and instructors in the program include experienced professionals representing a full spectrum of nonprofit organizations.

The Master of Science in Nonprofit Management and Leadership is one of only 12 programs worldwide to be recognized with accreditation from the Nonprofit Academic Centers Council (NACC). Per the accreditation review panel, UWM's program "...unambiguously meets 16 of the 16 major content subject areas through curriculum instruction..." and surpassed these requirements in 10 of those categories. Online options for program completion are available.

## Related Certificates

- Graduate Certificate in Nonprofit Management (p. 308)

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

Applications are considered on a rolling admissions basis, although we suggest that a completed portfolio be submitted at least 6-8 weeks prior to the beginning of the starting semester.

Applicants should keep in mind that applications for various University fellowships are typically due in January. If you are planning to apply for Financial Aid (<http://uwm.edu/onestop/contact/financial-aid/>), all application materials must be submitted by March 1 of each year.

### Admission

To be admitted to the MS in Nonprofit Management and Leadership degree program, an applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>).

During the admissions process, students will be asked to show evidence of having satisfactorily completed undergraduate or higher level foundation coursework in the principles of accounting and economics. Those students who are unable to show such evidence may be admitted with these academic deficiencies but will then meet with their respective academic advisors to identify and obtain approval for what they must do to remove these deficiencies.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

Applicants must submit the following for review by the Graduate School and the Nonprofit Management Program Faculty Committee:

1. Official transcripts from all colleges or universities previously attended.
2. Three letters of recommendation from persons familiar with the applicant's academic ability and/or professional achievements.
3. Scores from either the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>) or the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).
4. For those students whose native language is not English, minimum TOEFL score (Test of English as a Foreign Language) of 550 PBT or 79 iBT or minimum IELTS score (International English Language Testing System) of 6.5.
5. Each student's academic preparation is evaluated at the time of application. A personal interview may be required.

## Credits and Courses

The MS in Nonprofit Management and Leadership degree requires satisfactory completion of 39 credits of graduate-level coursework including 33 credit-hours of required or "constrained choice" courses and 6 credit-hours of elective courses as follows:

Code	Title	Credits
<b>Required</b>		
<i>Introductory</i>		
BUSMGMT 718	Concepts and Practice of Nonprofit Management	3
<i>Core</i>		
BUS ADM 766	Marketing for Nonprofit Organizations	3
BUSMGMT 721	Fundraising and Development for Nonprofit Organizations	3
BUSMGMT 724	Accounting for Nonprofit Organizations	3
NONPROF 705	Professionals and Volunteers in Nonprofit Organizations	3
NONPROF 725	Governance of Nonprofit Organizations	3
NONPROF 792	Decision-Making for Nonprofit and Public Organizations	3
NONPROF 793	Law of Nonprofit Organizations	3
NONPROF 795	Introduction to Nonprofit Revenue Streams and Portfolios	3
Select one of the following:		3
NONPROF 791	Nonprofit Advocacy and Public Policy	
NONPROF 958	Seminar in Nonprofit Administration: (The Nonprofit Economy)	
NONPROF 740	Executive Leadership of Nonprofit Organizations	
<i>Capstone</i>		
BUSMGMT 730	Strategic Management and Leadership for Nonprofit Organizations <sup>1</sup>	3

### Electives

Select two of the following: <sup>2</sup>		6
BUS ADM 731	Leadership in Diversity and Inclusion	
BUS ADM 737	Managerial Decisions and Negotiations	
BUSMGMT 706	Managing in a Dynamic Environment	
BUSMGMT 707	Information Technology Management in International Businesses	
BUSMGMT 715	Leadership, Team Building, and Effective Management	
NONPROF 750	Social Entrepreneurship in the Nonprofit Sector	
NONPROF 765	International Nongovernmental Organizations	
NONPROF 770	Leveraging Technology in the Public and Nonprofit Sectors	
NONPROF 785	Managing Change in Public and Nonprofit Organizations	
NONPROF 921	Nonprofit Administrative Internship	
PUB ADM 461	Organizational Theory and Practice	
PUB ADM 769	Analyzing and Evaluating Public Policies and Programs	
SOCIOL 920	Sociology of Race and Ethnicity	
URB STD 901	Urban Social Structure	

**Total Credits** 39

<sup>1</sup> This course will serve as the integrative “capstone” requirement for the program and must be taken after completing all other required courses (or concurrently with the final required courses).

<sup>2</sup> This is a pre-approved but not exhaustive list: Students may request alternative courses offered in other departments at UWM. Please send an email to Program Advisor with a course description and/or syllabus, and stated reasons why the course being proposed is an appropriate fit for the student’s academic and career goals.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

### Thesis

Not Required

### Comprehensive Examination

Not Required

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Nonprofit Management, Graduate Certificate (College of Letters and Science, Department of Public and Nonprofit Administration)

The Graduate Certificate in Nonprofit Management is a collaborative effort between the Lubar College of Business, the College of Letters & Science, and other campus units that have research and teaching interests in nonprofit management and leadership, nonprofit organizations, the nonprofit sector, and philanthropy. The certificate responds to the growing need for trained professionals to assume management and leadership positions in non-governmental, nonprofit sector organizations.

The multi-disciplinary Graduate Certificate in Nonprofit Management is designed to provide students with the knowledge and skills needed to pursue or advance careers within nonprofit sector organizations successfully. It is the first graduate-level program to be provided by any college or university in the State of Wisconsin that has been specifically designed for the leaders and managers of nonprofit organizations.

## Combining the Graduate Certificate with Another Graduate Degree

Students in degree programs across campus such as urban studies, public administration, business, social welfare, education, or the arts, have combined the Graduate Certificate in Nonprofit Management with their degree to further enhance their academic preparation for their particular career goals.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

Applications are considered on a rolling admissions basis, although we suggest that a completed portfolio be submitted at least 6-8 weeks prior to the beginning of the starting semester.

Applicants should keep in mind that applications for various University fellowships are typically due in January. If you are planning to apply for Financial Aid (<http://uwm.edu/onestop/contact/financial-aid/>), all application materials must be submitted by March 1 of each year.

### Admission

Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted in to a certificate program.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).

- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Students wishing to earn a Graduate Certificate in Nonprofit Management must complete the required 15 graduate credit hours. No student may complete all 15 credits within a single school or college. The curriculum consists of the following five courses:

Code	Title	Credits
<b>Required</b>		
BUSMGMT 718	Concepts and Practice of Nonprofit Management	3
BUSMGMT 721	Fundraising and Development for Nonprofit Organizations	3
BUSMGMT 724	Accounting for Nonprofit Organizations	3
NONPROF 725	Governance of Nonprofit Organizations	3
<b>Electives</b>		
Select one of the following:		3
BUS ADM 766	Marketing for Nonprofit Organizations	
NONPROF 740	Executive Leadership of Nonprofit Organizations	
NONPROF 705	Professionals and Volunteers in Nonprofit Organizations	
NONPROF 795	Introduction to Nonprofit Revenue Streams and Portfolios	
<b>Total Credits</b>		<b>15</b>

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.

2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Gainful Employment Disclosure Information

- UWM Financial Aid Gainful Employment (<https://uwm.edu/onestop/finances/receiving-financial-aid/non-degree-students/#primary>)
- Gainful Employment Disclosure Information (<https://uwm.edu/gis-certificate/wp-content/uploads/sites/323/2019/06/gis-cert-gedt-2019.pdf>)

## Public Administration, MPA (College of Letters and Science, Department of Public and Nonprofit Administration)

The College of Letters and Science and the Lubar College of Business offer and present jointly the Master of Public Administration (MPA).

The program is designed to provide theoretical and practical preparation for careers in public and non-profit administration with three areas of concentration: municipal management, general public administration, and non-profit management.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

Applications are considered on a rolling admissions basis, although we suggest that a completed portfolio be submitted at least 6-8 weeks prior to the beginning of the starting semester.

Applicants should keep in mind that applications for various University fellowships are typically due in January. If you are planning to apply for Financial Aid (<http://uwm.edu/onestop/contact/financial-aid/>), all application materials must be submitted by March 1 of each year.

## Admission

An applicant must meet Graduate School requirements and hold a bachelor's degree from an accredited college or university to be considered for admission.

There are no fixed prerequisites in terms of prior academic training; but background in public administration, American governmental institutions, economics, statistics, and computer applications in social science is beneficial. Each student's academic preparation is evaluated at the time of application. A personal interview may be required.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

The MPA program requirements to be considered for admission are:

1. An undergraduate grade point average of at least 3.0 (4.0 scale).
2. Three letters of recommendation from persons familiar with applicant's academic ability and achievement.
3. Submission of scores on the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>) or the Graduate Management Admission Test (GMAT) (<http://uwm.edu/graduateschool/admission/#gmat>).

Candidates seeking admission to the MPA/MUP program must apply to and be admitted to both programs. The requirements for admission to the MUP program are detailed in the Urban Planning section of this Catalog.

## Credits and Courses

The Master of Public Administration degree requires satisfactory completion of 39-42 credits of prescribed graduate study and appropriate coursework.

### Minimum Grade Requirements in the Core Courses

In order to demonstrate mastery of the critical Core Course material, MPA students must achieve a grade point average of 3.0 in the six Core Courses, and, regardless of average, students must earn a grade of B- or better in each Core Course. If a grade of C+ or lower is earned in any Core Course, that course must be repeated in an effort to earn the minimum grade of B-. If the student's grade point average in the six Core Courses is below 3.0, the student must repeat one or more Core Courses in which a grade of lower than B was earned in an effort to establish a grade point average of 3.0 in the Core. (For purposes of this requirement, the grade point average for the Core Courses will be calculated on the basis of only the highest grade earned; that is, the grade earned in the first attempt at a Core Course will not be averaged with the grade earned in the repeat.)

### Core Requirements

Students entering the MPA program will be placed, at the discretion of the MPA Director, in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A students and 42 credits for Track B students.

Code	Title	Credits
<b>Required Core</b>		
BUSMGMT 709	Predictive Analytics for Managers	3

BUS ADM 738	Human Resource Management	3
PUB ADM/URBPLAN 630	Budgeting and Finance in the Public Sector	3
PUB ADM 763	Scope and Dynamics of Public Administration	3
PUB ADM 769	Analyzing and Evaluating Public Policies and Programs	3
PUB ADM 921	Public Service Administrative Internship <sup>1</sup>	3
Select one of the following:		3
BUS ADM 443	Special Topics in Human Resources Management:	
BUSMGMT 706	Managing in a Dynamic Environment	
BUS ADM 731	Leadership in Diversity and Inclusion	
BUS ADM 737	Managerial Decisions and Negotiations	
<b>Tracks</b>		
Select Track A or B below		15-18
<b>Capstone</b>		
PUB ADM 959	Capstone Seminar in Public Administration <sup>2</sup>	3
<b>Total Credits</b>		<b>39-42</b>

<sup>1</sup> Waived for students with significant experience in the public or nonprofit sector; see Track A.

<sup>2</sup> Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

### Track A

Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have the Government/Nonprofit Administrative Internship course (PUB ADM 921) waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

### Track B

Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

Every student must select and complete the requirements for one of the following three concentrations:

### Municipal Management

Code	Title	Credits
<b>Required</b>		
Select two of the following:		6
PUB ADM 730	Budgeting for Public Sector Professionals	
PUB ADM 965	Municipal Management	
PUB ADM 750	Public Administration Risk and Analysis	
Select two of the following:		6

POL SCI/PUB ADM 914	
URBPLAN 651	Land Use Planning Practice
URBPLAN 684	Planning Local Economic Development
URBPLAN 701 & URBPLAN 702	Introduction to Land Use Planning and Introduction to Planning Law

<b>Electives</b>	
Select at least 6 elective credits <sup>1</sup>	6
<b>Total Credits</b>	<b>18</b>

<sup>1</sup> Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

Other courses may be substituted with the approval of the MPA Director.

**General Public Administration**

Code	Title	Credits
<b>Required</b>		
Select four of the following:		12
BUS ADM 441	Diversity in Organizations (if not used to satisfy seminar in organizational management requirement)	
PUB ADM 400	Ethics and Responsibility in Public Administration	
PUB ADM/POL SCI 452	Administrative Law	
PUB ADM 705		
PUB ADM 750	Public Administration Risk and Analysis	
POL SCI/PUB ADM 914		
PUB ADM 958	Seminar in Public Administration:	

<b>Electives</b>	
Select at least 6 elective credits <sup>1</sup>	6
<b>Total Credits</b>	<b>18</b>

<sup>1</sup> Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

**Nonprofit Organization and Management**

Code	Title	Credits
<b>Required</b>		
BUS ADM 766	Marketing for Nonprofit Organizations	3
BUS ADM 724	Business Combinations and Governmental Accounting	3
NONPROF 789	Theory and Role of Nonprofit Organizations	3
PUB ADM 958	Seminar in Public Administration:	3

<b>Electives</b>	
Select at least 6 elective credits <sup>1</sup>	6
<b>Total Credits</b>	<b>18</b>

<sup>1</sup> Selected by the student with the approval of the MPA Director that relate to the student’s substantive interests within the discipline of public administration.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student’s studies as specified in Graduate School regulations. A student who is not assigned to an advisor at the time of admission should immediately contact the Program Director.

### Thesis

Not required.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment. Students in the MPA/MUP program are allowed up to seven years to complete all requirements for both degrees.

## Public Administration, MPA/Criminal Justice and Criminology, MS

Both departments collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice in the field of criminal justice.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Students are admitted to both graduate programs separately and admission requirements are consistent with those specified by the UWM Graduate School, the MS in Criminal Justice & Criminology and the MPA program.

## Credits and Courses

Students accepted into this MS/MPA program complete the following courses:

### MS in Criminal Justice & Criminology

Code	Title	Credits
<b>Required</b>		
CRM JST 773	Criminological Perspectives	3
CRM JST 743	Proseminar: Administration of Criminal Justice Systems	3
CRM JST 756	Proseminar: Analysis of Criminal Justice Research	3

### Electives

Select 12 additional credits within the criminal justice & criminology program	12
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Select 12 additional credits with the consent of the student's advisor	12
<b>Total Credits</b>	<b>33</b>

### Master of Public Administration

Students entering the MPA program will be placed, at the discretion of the MPA Director in one of two tracks (A or B) within the core. The minimum degree requirement is 39 credits for Track A and 42 for Track B.

#### Track A

Students with significant public or nonprofit sector work experience may, at the discretion of the MPA Director, have PUB ADM 921 waived. Students seeking placement in this track will need to meet with the MPA Director to discuss this possibility and will be required to provide documentation of current public or nonprofit sector work experience.

#### Track B

Students with no significant public or nonprofit sector work experience are required to enroll in and successfully complete PUB ADM 921. As part of the requirements for this course, Track B students are required to obtain, with the assistance of the MPA Director, one or more internships in either the public or nonprofit sector while enrolled in the MPA program.

Code	Title	Credits
<b>Required Core</b>		
BUS ADM 738	Human Resource Management	3
PUB ADM 763	Scope and Dynamics of Public Administration	3
PUB ADM 769	Analyzing and Evaluating Public Policies and Programs	3
Select one of the following:		3
BUSMGMT 709	Predictive Analytics for Managers	
PUB ADM 792	Decision-Making for Nonprofit and Public Organizations	
CRM JST 756	Proseminar: Analysis of Criminal Justice Research	
Select one of the following:		3
BUS ADM 441	Diversity in Organizations	
BUS ADM 443	Special Topics in Human Resources Management:	
BUS ADM 737	Managerial Decisions and Negotiations	
<b>Capstone</b>		
PUB ADM 959	Capstone Seminar in Public Administration <sup>1</sup>	3
<b>General Public Administration</b>		
Select three of the following:		9
BUSMGMT 724	Accounting for Nonprofit Organizations	
PUB ADM 400	Ethics and Responsibility in Public Administration	
PUB ADM/URBPLAN 630	Budgeting and Finance in the Public Sector	
PUB ADM 750	Public Administration Risk and Analysis	
PUB ADM/POL SCI 914	Seminar in Intergovernment Relations	
PUB ADM 958	Seminar in Public Administration:	
PUB ADM 965	Municipal Management	
<b>Concentration</b>		
Select 12 credits in CRM JST		12

<b>Internship</b>		
PUB ADM 921	Public Service Administrative Internship <sup>2</sup>	3
<b>Total Credits</b>		<b>42</b>

<sup>1</sup> Every student will be required to take the capstone seminar, PUB ADM 959. The course requirements will include the completion and written and oral presentation of a project on a topic selected with the assistance of the instructor. This course will also be devoted to coverage of special issues and problems of the public administration profession, including administrative ethics.

<sup>2</sup> An internship is mandatory for students with no public sector work experience.

#### Total Degree Credits for Master of Public Administration: 48-51 cr

The total credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

## Additional Requirements

### Time Limit

Students in the coordinated MS/MPA degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Public Administration, MPA/Urban Planning, MUP

A coordinated degree program has been designed to allow students to obtain both the Master of Public Administration and the Master of Urban Planning degrees concurrently.

This program is intended to combine professional training in planning with applied administrative and managerial skills. The MPA/MUP requirements are described later in this section.

## Requirements

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

This program allows students to complete master's degrees in Public Administration and in Urban Planning concurrently. The coordinated degree requires 42-45 credits of required courses and completion of a concentration in Public Administration (18 credits). However, because some courses completed for the core requirements of the MUP also may count toward the MPA concentration, students may complete the dual degree with a minimum of 54-57 credits. The total number of credits

will depend on the student’s track and choice of concentration in public administration.

**Required Courses in Urban Planning (27 credits)**

Code	Title	Credits
URBPLAN 701	Introduction to Land Use Planning	1
URBPLAN 702	Introduction to Planning Law	2
URBPLAN 711	Planning Theories and Practice	3
URBPLAN 720	Urban Development Theory and Planning	3
URBPLAN 721	Applied Planning Methods	3
URBPLAN 740	Data Analysis Methods I	3
URBPLAN 810	Planning Policy Analysis	6
URBPLAN 811	Applied Planning Workshop	3
Select one of the following:		3
URBPLAN 751	Introduction to Urban Design and Physical Planning	
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	
URBPLAN 857	Urban Design as Public Policy	
<b>Total Credits</b>		<b>27</b>

**Required Courses in Public Administration (18 credits)**

Code	Title	Credits
BUS ADM 738	Human Resource Management	3
URBPLAN 630	Budgeting and Finance in the Public Sector	3
POL SCI 763		3
PUB ADM 921	Public Service Administrative Internship <sup>1</sup>	3
or URBPLAN 991	Legislative/Administrative Agency Internship	
PUB ADM 959	Capstone Seminar in Public Administration	3
Select one seminar in organizational management and leadership from the following:		3
BUS ADM 731	Leadership in Diversity and Inclusion	
BUS ADM 732	Transforming Organizations	
BUS ADM 737	Managerial Decisions and Negotiations	
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> The internship requirement will be waived for students with significant public sector work experience.

**Concentration Requirement (18 credits)**

Completion of all the requirements for one of the concentrations in Public Administration. A maximum of six credits of MUP core courses may be used as electives in the MPA concentrations.

# Quantitative Social Data Analysis, Undergraduate Certificate

The Certificate in Quantitative Social Data Analysis is designed to meet the growing need of employers for a workforce that is fluent in data-driven decision-making. Students in the certificate program are exposed to a breadth of data analysis topics, including research methods, Geographical Information System (GIS), multiple regression, and

advanced electives on a variety of quantitative topics in various social science fields, as well as software packages that are in common use in the business world. The program is interdisciplinary - it draws on courses from 9 social science-related departments (Africology, Anthropology, Communications, Criminal Justice, Economics, Geography, Psychology, Political Science, and Sociology) and is intended to complement students’ social science major with concrete quantitative skills in data analysis.

Students will take courses in statistics, regression, GIS, and research methods and will frequently be able to choose a course specific to their major. For example, a sociology major can choose "Research Methods in Sociology" to satisfy the research methods course requirement while a psychology student may choose "Research Methods in Psychology." These options allow students to focus their certificate training in their own field

## Eligibility

The certificate is open to current UWM undergraduates, UWM bachelor’s degree holders, or graduates of other accredited four-year colleges; to be admitted to the certificate program, students must have a current overall GPA of 3.0 at UWM or their bachelor’s degree institution. Students completing the certificate not in conjunction with a degree are not eligible for financial aid.

## Requirements

To obtain the certificate, the student must obtain a grade of at least C in any course used to satisfy the certificate requirements, and a cumulative GPA of 3.0 over all courses used for the certificate. Twelve of the 15-18 required credits must be earned in residence at UWM. 9 of the credits must be on the 300-level or above. Courses for the certificate may not be taken on a credit/no credit basis.

Students currently enrolled at UWM who have fulfilled some of the program’s requirements prior to the program’s approval may have their credits applied retroactively to the certificate program.

Students are required to take one course each from 5 areas:

1. Introductory statistics (3-4 credits);
2. Research methods (3-4 credits);
3. GIS (3 credits);
4. Multiple regression (3 credits); and
5. Electives (3-4 credits).

Code	Title	Credits
<b>Introductory Statistics</b>		<b>3-4</b>
Choose one:		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	
<b>Research Methods</b>		<b>3-4</b>
Choose one:		

AFRIC 301	Research Methods in African & African Diaspora Studies	
COMMUN 370	Quantitative Research in Communication	
POL SCI 203	Introduction to Political Science Research	
PSYCH 325	Research Methods in Psychology	
SOCIOL 361	Research Methods in Sociology	
CRM JST 662	Methods of Social Welfare Research	
<b>GIS</b>		<b>3</b>
Choose one:		
ANTHRO 380	Anthropological Applications of GIS	
CRM JST 520	Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS	
GEOG 215	Introduction to Geographic Information Science	
<b>Multiple Regression</b>		<b>3</b>
Choose one:		
ANTHRO 568	Introduction to Anthropological Statistics	
ECON 310	Research Methods for Economics	
ECON 413	Statistics for Economists	
ECON 513	Introduction to Econometrics	
POL SCI 390	Political Data Analysis	
PSYCH 610	Experimental Design	
SOCIOL 461	Social Data Analysis Using Regression	
<b>Electives</b>		<b>3-4</b>
Choose one: <sup>1</sup>		
ECON 411	Economic Forecasting Methods	
GEOG 525	Geographic Information Science	
GEOG 547	Spatial Analysis	
POL SCI 392	Survey Research	
PSYCH 510	Advanced Psychological Statistics	
SOCIOL 352	Social Networks	
<b>Total Credits</b>		<b>15-18</b>

<sup>1</sup> Other courses not on this list but relevant to quantitative social data analysis may be accepted with the approval of the Certificate Program Coordinator. A student making such a request must submit syllabi from the courses involved to the coordinator.

## Awarding the Certificate

Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree will receive the certificate upon completion of the program requirements.

## Religious Studies

The interdisciplinary major in religious studies draws on the resources of UWM faculty members with a teaching and research interest in religion. This program provides students with a broad humanistic background in religion and an opportunity to develop special concentrations in specific areas of interest. There is no sectarian program of instruction. Rather, faculty members bring to their teaching the special academic characteristics of their own scholarly disciplines, and majors in the

program draw upon a wide sample of those academic traditions. Thus, such subjects as the history and philosophy of religion and religion in art and literature are included in this program. Students choose from courses that consider religion in a wide array of cultural and historical contexts around the globe, including Buddhist, Christian, Classical Greek and Roman, Hindu, Islamic, Jewish, African, and American Indian religions.

Religious studies serves students seeking a broadly humanistic program, those who are pursuing a wide range of pre-professional education programs, those anticipating teaching careers at the secondary or higher educational level, and those who will undertake further study for the religious ministry.

## Programs

- Religious Studies, BA (p. 1280)
- Religious Studies, Minor (p. 1285)

## Religious Studies, BA

Religious studies is an interdisciplinary major that draws on courses from multiple departments to give students a broad understanding of the historical, cultural and philosophical principles of the world's religions, including Buddhism, Christianity, Classical Greek and Roman religions, Hinduism, Islam, Judaism, African and Native-American religions. These diverse belief systems are studied not just for their influence over past generations but also to better understand their role in modern issues.

Religious Studies is not just for students planning to go on to become a priest, rabbi or minister. The program provides excellent preparation for all careers that require critical thinking, logic, analysis and writing skills. Because of the breadth of the subject matter, students graduate with a global perspective, an appreciation for different viewpoints and substantive knowledge about ethics and core belief systems of the past and present.

UWM students in Religious Studies take courses in history, anthropology, philosophy, political science, classics, art history, literature, and more. Many students also complement their major with studies in the foreign language since many religions have traditions and foundations in another language.

Students will also find a very active student organization - the Religious Studies Student Organization. The group brings in speakers and engages with the local community on scholarly topics of interest.

## Double Major

It often is possible to complete a double major in Religious Studies and another subject. This is the case particularly when a student already has undertaken the major in the other field but has credits in religion courses as well. The student often can take courses that count for both Religious Studies and the other major. Interested students should consult with the Program Director.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete



University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
0-18		
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		
9		
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		

Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.

Complete 9 credits in combination of the two options above.

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition,

students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Religious Studies Major Requirements

The religious studies major requires completion of at least 33 credits, including at least 18 in upper-division courses (numbered 300 and above) of which at least 15 must be taken in residence at UWM. In satisfying these requirements, students must select courses from at least three different curricular areas. The College requires that students attain at least a 2.0 GPA on all major credits attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. The required 33 credits must be distributed as follows:

Code	Title	Credits
<b>Core</b>		
<i>Recommended</i>		
The following is recommended:		
RELIGST 101	Introduction to World Religions	
<i>Required Methods</i>		
Select one of the following:		3
RELIGST 395	Seminar in the Study of Religion: Theories of Religion (or equivalent)	
HIST 594	Methods and Theory in the Historical Study of Religion: (or equivalent)	
<i>Required Capstone Experience</i> <sup>1</sup>		
Select one of the following research options:		3
HIST 600	Seminar in History: (with research conducted on a religion-related topic)	
For students with additional major(s), upper-level research seminar in the additional major that focuses on a religion-related topic		
A 3-credit independent study on a religion-related topic		
Senior thesis in another program/department on a religion-related topic		
Research paper focused on a religion-related topic as approved by the director		
<b>Electives</b>		
Select 27 credits (see below)		27
<b>Total Credits</b>		<b>33</b>

<sup>1</sup> In all cases, the religious studies director must approve the topic to satisfy the research requirement. Majors are required to file the appropriate research/capstone approval form prior to completion of their research/capstone course.

### Electives

All majors are required to complete at least 27 additional credits beyond the core courses. Nine elective credits must be distributed among three different religious traditions. A religious tradition course must focus primarily (more than 50%) on one specific religion. Twelve of these 27 credits must be numbered 300 or above.

Code	Title	Credits
AFRIC 311	African Religious Thought and Social Organizations (Indigenous religions)	3
AFRIC 312	The Church in African-American Life (Christianity)	3

AIS 106	Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy	3
AMLLC 240	Vampires: From Slavic Village to Hollywood (Indigenous religions)	3
ANTHRO 203	Indigenous Religions (Indigenous religions)	3
ANTHRO 305	The Celtic World	3
ANTHRO 314	American Indian Societies and Cultures (Indigenous religions)	3
ANTHRO 326	Peoples and Cultures of South Asia	3
ANTHRO 351	Anthropological Theories of Religion	3
ANTHRO 543	Cross-Cultural Study of Religion	3
ANTHRO 544	Religious Giving in Anthropological Perspective	3
ARABIC 111	Cultures and Civilizations of the Muslim Middle East (Islam)	3
ARABIC 390	Islam: Religion and Culture (Islam)	3
ARTHIST 101	Ancient and Medieval Art and Architecture	3
ARTHIST 102	Renaissance to Modern Art and Architecture	3
ARTHIST 104	African, New World and Oceanic Art and Architecture	3
ARTHIST 105	Asian Art and Architecture	3
ARTHIST 237	Northern Renaissance Art	3
ARTHIST 241	Introduction to Baroque Art	3
ARTHIST 251	Introduction to the Art and Architecture of Latin America	3
ARTHIST 255	Survey of Italian Renaissance Painting and Sculpture	3
ARTHIST 270	Pre-Columbian Art, Myth, and Legacy (Indigenous religions)	3
ARTHIST 281	Modern and Contemporary Chinese Art	3
ARTHIST 312	Minoan and Mycenaean Art and Archaeology	3
ARTHIST 314	Art and Archaeology of the Ancient Near East	3
ARTHIST 315	Art and Archaeology of Ancient Egypt (Indigenous religions)	3
ARTHIST 316	Roman Art and Archaeology (Indigenous religions)	3
ARTHIST 323	Age of Apocalypse: Western European Art after the First Millennium	3
ARTHIST 324	Early Christian and Byzantine Art and Architecture (Christianity)	3
ARTHIST 325	Early Medieval Art in the West	3
ARTHIST 326	Chivalry and Spirituality: French Gothic Art and Architecture	3
ARTHIST 327	Caliphs, Emirs, & Kings: Art & Architecture of Medieval Spain (Islam)	3
ARTHIST 333	High Renaissance Art in Italy	3
ARTHIST 371	African Art (Indigenous religions)	3
ARTHIST 372	Art of the Inca and their Ancestors (Indigenous religions)	3
ARTHIST 373	Art of Ancient Mexico and Central America (Indigenous religions)	3

ARTHIST 375	Art of the Aztec Empire (Indigenous religions)	3	HIST 284	Buddhism Across Asia (Buddhism)	3
ARTHIST 380	Chinese Painting	3	HIST 303	A History of Greek Civilization: The Greek City-State	3
ARTHIST 382	Chinese Art and Architecture	3	HIST 304	A History of Greek Civilization: The Age of Alexander the Great (Indigenous religions)	3
ARTHIST 383	Japanese Art and Architecture	3	HIST 307	A History of Rome: The Republic (Indigenous religions)	3
ARTHIST 386	Art, Ritual, and Ethnicity of China	3	HIST 308	A History of Rome: The Empire (Indigenous religions)	3
ARTHIST 387	Buddhist Art and Architecture (Buddhism)	3	HIST 318	Medieval Civilization: The High Middle Ages	3
ARTHIST 412	Cities and Sanctuaries of Ancient Greece (Indigenous religions)	3	HIST 319	The Era of the Crusades (Christianity)	3
ARTHIST 431	Renaissance Architecture in Italy	3	HIST 329	The Roman Catholic Church, 1500 to the Present (Christianity)	3
ARTHIST 474	Maya Art (Indigenous religions)	3	HIST 330	The Papacy in History (Christianity)	3
CELTIC 133	Celtic Crossings: Overview of the History and Cultures of the Celtic World	3	HIST 358	The Jews of Modern Europe: History and Culture	3
CLASSIC 170	Classical Mythology (Indigenous religions)	3	HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3
CLASSIC 201	Introduction to Greek Life and Literature	3	HIST 370	Topics in the History of Religious Thought:	3
CLASSIC 202	Introduction to Roman Life and Literature	3	HIST 379	Introduction to Jewish History	3
CLASSIC 274	Ancient Egyptian Civilization (Indigenous religions)	3	HIST 380	Buddhism: A Cultural History (Buddhism)	3
CLASSIC 301	The Life and Literature of Classical Athens: Herodotus and Dramatists	3	HIST 386	Africans in World History: Communities, Cultures, and Ideas	3
CLASSIC 302	War and Politics in Ancient Greece	3	HIST 393	History of Mexico	3
CLASSIC 303	The Life and Literature of the Roman Empire	3	HIST 452	History of Religion in American Life to 1870	3
CLASSIC 351	Ancient Greek Religion (Indigenous religions)	3	HIST 453	History of Religion in American Life Since 1870	3
CLASSIC 370	Hittite Myth and History (Indigenous religions)	3	HIST 454	God at the Movies: American Religion in Fiction and Film	3
CLASSIC 390	Egyptian Mythology (Indigenous religions)	3	HIST 594	Methods and Theory in the Historical Study of Religion:	3
COMPLIT 231	Literature and Religion:	3	ITALIAN 333	Dante's Divine Comedy in Translation (Christianity)	3
ENGLISH 454	Milton (Christianity)	3	JEWISH 100	Introduction to Judaism (Judaism)	3
GEOG 333	Muslim Geographies: Identities and Politics (Islam)	3	JEWISH 101	Jewish Culture in America: History, Literature, Film (Judaism)	3
GLOBAL 371	Rethinking Global Security	3	JEWISH 131	Introduction to Biblical Studies (Judaism)	3
HEBREW 201	Third-Semester Hebrew (Judaism)	4	JEWISH 230	Bible Stories (Judaism)	3
HEBREW 202	Fourth-Semester Hebrew (Judaism)	4	JEWISH 231	Introduction to the Old Testament/ Hebrew Bible (Judaism)	3
HEBREW 301	Modern Hebrew Literature I in Hebrew (Judaism)	3	JEWISH 232	Survey of the Literature of the Post-Biblical Period (Judaism)	3
HEBREW 302	Modern Hebrew Literature II in Hebrew (Judaism)	3	JEWISH 234	Survey of Modern Hebrew and Jewish Literature in Translation (Judaism)	3
HIST 131	World History to 1500	3	JEWISH 235	The Dead Sea Scrolls and the Bible (Judaism)	3
HIST 175	East Asian Civilization to 1600	3	JEWISH 261	Representing the Holocaust in Words and Images (Judaism)	3
HIST 201	The Ancient World: The Near East and Greece (Buddhism)	3			
HIST 202	The Ancient World: The Roman Republic and Empire	3			
HIST 274	Ancient Egyptian Civilization (Indigenous religions)	3			
HIST 280	Islamic Civilization: The Formative Period, ca. 500-1258 (Islam)	3			
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3			

JEWISH 282	Jewish Identity in Contemporary America (Judaism)	3
JEWISH 331	Topics in Biblical Literature:	3
JEWISH 332	Women in the Bible (Judaism)	3
JEWISH 358	The Jews of Modern Europe: History and Culture (Judaism)	3
JEWISH 368	Jewish and Christian Responses to the Holocaust (Judaism)	3
JEWISH 379	Introduction to Jewish History (Judaism)	3
JEWISH 411	Old Testament Texts:	3
JEWISH 449	Modern Jewish Thought (Judaism)	3
LATIN 306	Readings in Latin Literature:	3
PHILOS 204	Introduction to Asian Religions	3
PHILOS 207	Religion and Science	3
PHILOS 250	God, Faith and Reason	3
PHILOS 304	Buddhist Philosophy (Buddhism)	3
PHILOS 350	Introduction to the Comparative Study of Religion	3
PHILOS 431	History of Medieval Philosophy (Christianity)	3
PHILOS 461	Islamic Philosophy and Mysticism (Islam)	3
PHILOS 474	Contemporary Religious Thought:	3
PHILOS 475	Special Topics in Indian Religious Thought:	3
POL SCI 215	Ethnicity, Religion and Race in American Politics	3
RUSSIAN 361	Russian and Slavic Folklore	3

Relevant language courses above the second semester will be counted as electives toward the Religious Studies major with approval of the coordinator. Students can take up to 10 credit hours of foreign language beyond the second semester if the language chosen is related to their future goals or research interests. Again, the use of such language courses as electives requires approval of the coordinator.

### Optional Concentration

Religious Studies majors have the option of focusing their programs of studies on one or more religious traditions. To discuss this option, please contact Program Director David Divalerio at [divaleri@uwm.edu](mailto:divaleri@uwm.edu).

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;

- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Religious Studies, Minor

Religious studies is an interdisciplinary major or minor that draws on courses from multiple departments to give students a broad understanding of the historical, cultural and philosophical principles of the world's religions, including Buddhism, Christianity, Classical Greek

and Roman religions, Hinduism, Islam, Judaism, African and Native-American religions. These diverse belief systems are studied not just for their influence over past generations but also to better understand their role in modern issues.

Religious Studies is not just for students planning to go on to become a priest, rabbi or minister. The program provides excellent preparation for all careers that require critical thinking, logic, analysis and writing skills. Because of the breadth of the subject matter, students graduate with a global perspective, an appreciation for different viewpoints and substantive knowledge about ethics and core belief systems of the past and present.

UWM students in Religious Studies take courses in history, anthropology, philosophy, political science, classics, art history, literature, and more. Many students also complement their major with studies in the foreign language since many religions have traditions and foundations in another language.

Students will also find a very active student organization - the Religious Studies Student Organization. The group brings in speakers and engages with the local community on scholarly topics of interest.

## Requirements

The minor requires 18 credits in approved Religious Studies courses, including at least 9 upper-division (numbered 300 and above) credits taken in residence at UWM. Students may take courses in the Religious Studies curricular area (RELIGST) as well as courses from the approved list below. Students must complete coursework from at least two different curricular areas.

In addition, the minor must include courses dealing with two different religious traditions. (RELIGST 101 may not be used in fulfilling this requirement.) The College requires that students earn at least a 2.0 GPA on all UWM courses attempted for the minor. A 2.0 GPA also is required on all minor credits attempted, including any transfer work.

To discuss the minor, please contact Program Director David Divalerio at [divaleri@uwm.edu](mailto:divaleri@uwm.edu).

## Approved Religious Studies Content Courses

Code	Title	Credits
AFRIC 311	African Religious Thought and Social Organizations (Indigenous religions)	3
AFRIC 312	The Church in African-American Life (Christianity)	3
AIS 106	Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy	3
AMLLC 240	Vampires: From Slavic Village to Hollywood (Indigenous religions)	3
ANTHRO 203	Indigenous Religions (Indigenous religions)	3
ANTHRO 305	The Celtic World	3
ANTHRO 314	American Indian Societies and Cultures (Indigenous religions)	3
ANTHRO 326	Peoples and Cultures of South Asia	3
ANTHRO 351	Anthropological Theories of Religion	3
ANTHRO 543	Cross-Cultural Study of Religion	3
ANTHRO 544	Religious Giving in Anthropological Perspective	3

ARABIC 101	First Semester Arabic	5
ARABIC 102	Second Semester Arabic	5
ARABIC 390	Islam: Religion and Culture (Islam)	3
ARABIC 111	Cultures and Civilizations of the Muslim Middle East (Islam)	3
ARTHIST 104	African, New World and Oceanic Art and Architecture	3
ARTHIST 105	Asian Art and Architecture	3
ARTHIST 237	Northern Renaissance Art	3
ARTHIST 241	Introduction to Baroque Art	3
ARTHIST 251	Introduction to the Art and Architecture of Latin America	3
ARTHIST 255	Survey of Italian Renaissance Painting and Sculpture	3
ARTHIST 270	Pre-Columbian Art, Myth, and Legacy (Indigenous religions)	3
ARTHIST 281	Modern and Contemporary Chinese Art	3
ARTHIST 312	Minoan and Mycenaean Art and Archaeology	3
ARTHIST 314	Art and Archaeology of the Ancient Near East	3
ARTHIST 315	Art and Archaeology of Ancient Egypt (Indigenous religions)	3
ARTHIST 316	Roman Art and Archaeology (Indigenous religions)	3
ARTHIST 323	Age of Apocalypse: Western European Art after the First Millennium	3
ARTHIST 324	Early Christian and Byzantine Art and Architecture (Christianity)	3
ARTHIST 325	Early Medieval Art in the West	3
ARTHIST 326	Chivalry and Spirituality: French Gothic Art and Architecture	3
ARTHIST 327	Caliphs, Emirs, & Kings: Art & Architecture of Medieval Spain (Islam)	3
ARTHIST 333	High Renaissance Art in Italy	3
ARTHIST 371	African Art (Indigenous religions)	3
ARTHIST 372	Art of the Inca and their Ancestors (Indigenous religions)	3
ARTHIST 373	Art of Ancient Mexico and Central America (Indigenous religions)	3
ARTHIST 375	Art of the Aztec Empire (Indigenous religions)	3
ARTHIST 380	Chinese Painting	3
ARTHIST 382	Chinese Art and Architecture	3
ARTHIST 383	Japanese Art and Architecture	3
ARTHIST 386	Art, Ritual, and Ethnicity of China	3
ARTHIST 387	Buddhist Art and Architecture (Buddhism)	3
ARTHIST 412	Cities and Sanctuaries of Ancient Greece (Indigenous religions)	3
ARTHIST 431	Renaissance Architecture in Italy	3
ARTHIST 474	Maya Art (Indigenous religions)	3
CELTIC 133	Celtic Crossings: Overview of the History and Cultures of the Celtic World	3

CLASSIC 170	Classical Mythology (Indigenous religions)	3	HIST 330	The Papacy in History (Christianity)	3
CLASSIC 201	Introduction to Greek Life and Literature	3	HIST 358	The Jews of Modern Europe: History and Culture	3
CLASSIC 202	Introduction to Roman Life and Literature	3	HIST 364	The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45	3
CLASSIC 274	Ancient Egyptian Civilization (Indigenous religions)	3	HIST 370	Topics in the History of Religious Thought:	3
CLASSIC 301	The Life and Literature of Classical Athens: Herodotus and Dramatists	3	HIST 379	Introduction to Jewish History	3
CLASSIC 302	War and Politics in Ancient Greece	3	HIST 380	Buddhism: A Cultural History (Buddhism)	3
CLASSIC 303	The Life and Literature of the Roman Empire	3	HIST 386	Africans in World History: Communities, Cultures, and Ideas	3
CLASSIC 370	Hittite Myth and History (Indigenous religions)	3	HIST 393	History of Mexico	3
CLASSIC 351	Ancient Greek Religion (Indigenous religions)	3	HIST 452	History of Religion in American Life to 1870	3
CLASSIC 390	Egyptian Mythology (Indigenous religions)	3	HIST 453	History of Religion in American Life Since 1870	3
COMPLIT 231	Literature and Religion:	3	HIST 454	God at the Movies: American Religion in Fiction and Film	3
ENGLISH 454	Milton (Christianity)	3	HIST 594	Methods and Theory in the Historical Study of Religion:	3
GEOG 333	Muslim Geographies: Identities and Politics (Islam)	3	ITALIAN 333	Dante's Divine Comedy in Translation (Christianity)	3
GLOBAL 371	Rethinking Global Security	3	JEWISH 100	Introduction to Judaism (Judaism)	3
HEBREW 201	Third-Semester Hebrew (Judaism)	4	JEWISH 101	Jewish Culture in America: History, Literature, Film (Judaism)	3
HEBREW 202	Fourth-Semester Hebrew (Judaism)	4	JEWISH 131	Introduction to Biblical Studies (Judaism)	3
HEBREW 301	Modern Hebrew Literature I in Hebrew (Judaism)	3	JEWISH 230	Bible Stories (Judaism)	3
HEBREW 302	Modern Hebrew Literature II in Hebrew (Judaism)	3	JEWISH 231	Introduction to the Old Testament/ Hebrew Bible (Judaism)	3
HIST 175	East Asian Civilization to 1600	3	JEWISH 232	Survey of the Literature of the Post-Biblical Period (Judaism)	3
HIST 131	World History to 1500	3	JEWISH 234	Survey of Modern Hebrew and Jewish Literature in Translation (Judaism)	3
HIST 201	The Ancient World: The Near East and Greece (Buddhism)	3	JEWISH 235	The Dead Sea Scrolls and the Bible (Judaism)	3
HIST 202	The Ancient World: The Roman Republic and Empire	3	JEWISH 261	Representing the Holocaust in Words and Images (Judaism)	3
HIST 274	Ancient Egyptian Civilization (Indigenous religions)	3	JEWISH 282	Jewish Identity in Contemporary America (Judaism)	3
HIST 280	Islamic Civilization: The Formative Period, ca. 500-1258 (Islam)	3	JEWISH 331	Topics in Biblical Literature:	3
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries	3	JEWISH 332	Women in the Bible (Judaism)	3
HIST 284	Buddhism Across Asia (Buddhism)	3	JEWISH 358	The Jews of Modern Europe: History and Culture (Judaism)	3
HIST 303	A History of Greek Civilization: The Greek City-State	3	JEWISH 368	Jewish and Christian Responses to the Holocaust (Judaism)	3
HIST 304	A History of Greek Civilization: The Age of Alexander the Great (Indigenous religions)	3	JEWISH 379	Introduction to Jewish History (Judaism)	3
HIST 307	A History of Rome: The Republic (Indigenous religions)	3	JEWISH 411	Old Testament Texts:	3
HIST 308	A History of Rome: The Empire (Indigenous religions)	3	JEWISH 449	Modern Jewish Thought (Judaism)	3
HIST 318	Medieval Civilization: The High Middle Ages	3	LATIN 306	Readings in Latin Literature:	3
HIST 319	The Era of the Crusades (Christianity)	3	PHILOS 204	Introduction to Asian Religions	3
HIST 329	The Roman Catholic Church, 1500 to the Present (Christianity)	3	PHILOS 207	Religion and Science	3
			PHILOS 250	God, Faith and Reason	3

PHILOS 304	Buddhist Philosophy (Buddhism)	3
PHILOS 350	Introduction to the Comparative Study of Religion	3
PHILOS 431	History of Medieval Philosophy (Christianity)	3
PHILOS 461	Islamic Philosophy and Mysticism (Islam)	3
PHILOS 474	Contemporary Religious Thought:	3
PHILOS 475	Special Topics in Indian Religious Thought:	3
POL SCI 215	Ethnicity, Religion and Race in American Politics	3
RUSSIAN 361	Russian and Slavic Folklore	3

program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Sociology

Sociology is the study of patterns of social relations and how those patterns shape what people do and think. From community and conflict, family and inequality, social change and religion, crime and conformity, class and race, gender and work, few fields offer students such breadth in the study of the social world we all inhabit.

For undergraduates we offer an exciting array of classes, where students can study everything from human sexuality to the sociology of culture, from issues related to aging to pressing questions of inequality and poverty. Students have great opportunities to work closely with our faculty and teaching staff; our wide range of courses offers undergraduates both breadth and depth in their study of sociology.

For graduate students we offer an excellent Master's and PhD programs. Our MA program has long provided outstanding training as preparation for PhD programs or for work in non-profit organizations, businesses, and government agencies. Our PhD program offers advanced training, in general sociological theory and cutting edge methodologies for the analysis of social data, with particular emphasis on expertise in the analysis of social inequalities and social institutions.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the

## Programs

- Sociology, BA (p. 1289)
- Sociology, MA (p. 1292)
- Sociology, Minor (p. 1293)
- Sociology, PhD (p. 1294)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Anne Bonds	Sociology Faculty Affiliate & Associate Professor, Geography	PhD	University of Washington	✓	
Marcus Britton	Associate Professor	PhD	Northwestern University	✓	
Esther Chan	Assistant Professor	PhD	Yale University	✓	
Noelle Chesley	Associate Professor & Department Chair	PhD	Cornell University	✓	
Cary Gabriel Costello	Associate Professor	PhD	University of California-Berkeley	✓	
Stanislav D. Dobrev	Sociology Faculty Affiliate & Robert L. and Sally S. Manegold Chair in Strategic Management	PhD	Stanford University	✓	
Gordon Gauchat	Associate Professor	PhD	University of Connecticut	✓	
Jennifer A. Jordan	Professor	PhD	University of California-San Diego	✓	
Rebecca Headley Konkel	Sociology Faculty Affiliate & Assistant Professor, Criminal Justice & Criminology	PhD	Georgia State University	✓	
Timothy O'Brien	Associate Professor & Director of Undergraduate Studies	PhD	Indiana University	✓	
Kent Redding	Associate Professor	PhD	University of North Carolina-Chapel Hill	✓	



Aki Roberts	Associate Professor	PhD	University of New Mexico	✓
John M. Roberts Jr.	Professor & Director of Graduate Studies	PhD	Cornell University	✓
William Velez	Professor	PhD	Yale University	✓

## Sociology, BA

Everyone is part of multiple social groups. Your local community, your ethnic group, your religious organization, your workplace, your team, your family - these are all examples of groups to which you might belong. The Sociology major at UWM offers students a chance to better understand these groups and the people within them. Students explore the social causes and consequences of human behavior, including topics such as political movements, population shifts, housing patterns, racism, gender inequality, the legal system, the medical profession, crime, families, sexuality, workplace organization, food cultures, and more.

UWM students in Sociology can customize their major. Beyond the core courses that all majors take, students have many electives to choose from. They can take a broad array of courses or become more specialized by choosing electives focused around particular topics of interest. Our graduates are known for their strong knowledge of the field as well as exceptional technical skills that are highly desirable. Sociology is a social science and relies on data, statistics and research to form theories and draw conclusions. Students in UWM's Sociology program learn how to process, analyze and synthesize large volumes of information in a logical and consistent manner using the latest software tools, a skill that has gotten them noticed by employers from businesses and government agencies that rely on data to make informed decisions.

Sociology is also one of UWM's majors available entirely online for students that wish to earn their degree from a distance. All classes required for the major can be taken online, or students can mix-and-match and take some online and some traditional classes. Many sociology courses are cross-listed with other certificate programs and interdepartmental majors.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	

### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

### Part B

Course designated as QL-B; may be completed through a major-specific course requirement

### Arts

Select 3 credits 3

### Humanities

Select 6 credits 6

### Social Sciences

Select 6 credits 6

### Natural Sciences

Select 6 credits (at least two courses including one lab) 6

### UWM Foreign Language Requirement

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

### UWM Cultural Diversity Requirement

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

1) Completing ENGLISH 102 with a grade of C or higher; or

2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

## II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	

PHILOS 211	Elementary Logic
POL SCI 390	Political Data Analysis
POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

## III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

## IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

## V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12

**Social Sciences**

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. \* 12

**Natural Sciences**

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. \* 12

**Cultural Diversity**

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\* 3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

**VI. The Major**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

**Research Requirement**

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

**VII. The Minor**

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

**Sociology Major Requirements**

Students must complete at least 15 upper-division (numbered 300 and above) credits in the major in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work.

The major in sociology requires a minimum of 30 credits including the following:

Code	Title	Credits
<b>Required</b>		
SOCIOL 261	Introduction to Statistical Thinking in Sociology <sup>1,2</sup>	3

SOCIOL 361	Research Methods in Sociology (satisfies L&S research requirement)	3
SOCIOL 375	Social Theory	3

**Additional Requirements**

Select 21 additional credits 21

**Total Credits** 30

<sup>1</sup> PSYCH 210 shall be accepted as a substitute for SOCIOL 261 to fulfill the statistics requirement for students majoring in Sociology. With the approval of the undergraduate advisor, majors may substitute a different elementary statistics course from another discipline for the SOCIOL 261 requirement.

<sup>2</sup> SOCIOL 261 fulfills the College of Letters & Science "Mathematics and Formal Reasoning" requirement **AND** the UWM Quantitative Literacy - B (QL-B) requirement.

At least 15 credits must be in upper-division (300 level and above) sociology courses taken in residence at UWM.

Students in the Schools of Education and Social Welfare should consult their programs regarding social science requirements.

Sociology courses often are cross-listed with several certificate programs and interdepartmental majors.

**Declare Your Sociology Major with a Faculty Advisor**

Advising for the major takes place within the department by a faculty member. Click on "Declare Your Major (<https://uwm.edu/sociology/students/undergraduates/declare-your-major/>)" to fill out an application to join the program. Then, a faculty advisor will review your transcript and reach out to you to let you know exactly where you are in your progress toward the degree. If you are unable to complete the online request form or for any other questions, please email [sociology@uwm.edu](mailto:sociology@uwm.edu).

Applicants who have not started classes at UWM yet who wish to change their major should contact our admissions counselor at [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

**Letters & Science Advising**

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and

- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Sociology majors who have maintained at least a 3.000 GPA overall, a 3.500 GPA in all courses attempted for the major, and a 3.500 in all advanced-level (numbered 300 and above) courses attempted for the major are awarded the distinction "Honors in the Major" when they graduate. An "Honors in the Major" notation will appear on the student's transcript.

## Sociology Honor Society & Awards

In addition, majors and minors who maintained at least a 3.300 GPA overall and a 3.000 GPA in courses taken for the major are invited to join Alpha Kappa Delta, the International Sociology Honor Society. Sociology faculty members annually select academically talented majors or minors for both the "Distinguished Scholar Award" as well as the "Joan W. Moore Service Scholar Award." Both awards are presented to an accomplished junior or senior in the major or minor each spring at the department's award ceremony.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for

honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Sociology, MA

Our MA program prepares students to apply social research skills to a wide range of industries and jobs. MA students go on to a range of careers as data analysts, program managers, researchers, grant writers, and others across many different industries. Our diverse community of deeply engaged faculty provides students with rigorous research training as well as developing in-depth understanding of social systems, dynamics, and human behavior. The core MA course sequence provides a strong foundation in sociological theory, research, and analysis, while elective courses and faculty mentoring help develop students' expertise in more specific areas of sociological study.

Graduate students in the UWM Department of Sociology come from a wide variety of backgrounds. We welcome applications from prospective students with a Bachelor's degree in sociology, as well as those with degrees in other fields who have developed a passionate interest in sociology. Please visit the **Graduate School Future Master's Student** webpage to learn about graduate study at UWM and life in Milwaukee.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

New graduate students are admitted to the MA Program in Sociology only for the fall semester. Completed applications should be received by the department no later than January 10th of the year the applicant intends to start, but if space permits we continue to review applications received until mid-April.

All applicants must meet the UWM Graduate School's requirements for admission to the MA program in Sociology. In addition, applicants to the MA program must:

1. Provide three letters of recommendation from persons, preferably faculty, familiar with the applicant's scholastic achievement and potential.
2. Submit a sample of scholarly writing, a minimum of five pages in length.
3. Submit a reasons statement (statement of purpose) that explains your reasons for pursuing graduate study, describes your specific interests and background in the field, and lists any relevant skills, training, and academic awards or honors.

Submission of GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores is optional. GRE scores often enhance an application, so applicants are welcome to submit scores for consideration in the review

of their application, but GRE scores are not required for an application to be reviewed.

### Financial Aid

The major source of financial assistance for graduate students in sociology is employment as a teaching assistant. Assistantships are awarded every academic year on a competitive basis and may be renewed for an additional year; they include a stipend, full tuition remission and eligibility for low-cost health insurance.

Graduate students also are eligible for fellowships awarded by the Graduate School on a competitive basis. Additional information on the types and availability of fellowships may be obtained directly from the Graduate School.

### Advising Procedures

Upon admission, the Director of Graduate Studies will serve as the student’s advisor. An initial advisor will be assigned in the student’s first semester in residence. The initial advisor assists students in planning their course programs, and in scheduling other degree requirements. When the MA student begins to formulate a topic for a thesis, a master’s paper, or MA examination, the student selects a member of the Sociology Graduate faculty as their committee chair. This person then becomes the student’s main curriculum advisor for the remainder of the time in the program.

## Credits and Courses

The MA in Sociology requires a minimum of 30 graduate credits.

Code	Title	Credits
<b>Required</b>		
SOCIOL 701	Professional Seminar	1
SOCIOL 715	Systematic Sociological Theory	3
SOCIOL 750	Research Methods in Sociology	3
SOCIOL 760	Advanced Statistical Methods in Sociology	3
Select a 900-level sociology seminar course		3
<b>Electives</b>		
Select 17 elective credits in consultation with advisor		17
<b>Total Credits</b>		<b>30</b>

Up to five credits of SOCIOL 790, may be taken by students who elect the thesis/paper capstone option.

With permission of the student’s advisor, up to six graduate credits may be taken outside the department in courses related to the individual’s plan of study. No more than six credits of undergraduate/graduate courses (excluding those previously taken as an undergraduate), taken at the graduate level, may be applied toward meeting degree requirements. No more than six credits in SOCIOL 799 may count toward the degree.

## Additional Requirements

### Good Standing

To retain good standing in the Department of Sociology, an enrolled graduate student must maintain a minimum 3.0 cumulative GPA and demonstrate progress toward completion of the course and/or thesis requirements each semester.

## Thesis, Master’s Paper, or the MA Examination Options

The student must write and defend an acceptable thesis, a master’s paper, or write an examination in fulfillment of the requirements for the Master of Arts degree in Sociology.

### Thesis or Master’s Paper

The thesis or master’s paper is intended to be a relatively limited research exercise, focused on a manageable topic. It does not necessarily have to involve original research. Acceptable thesis or master’s paper options include, but are not limited to, collection of data for hypothesis testing or exploratory research, secondary analysis of available data, theoretical critique, conceptual analysis and library research on a clearly defined problem. In general, students are encouraged to utilize existing data rather than collect new data unless they are confident that they have adequate resources (including time) to collect data sufficient for their purposes.

By the end of the third semester, students should complete a proposal for the MA thesis or paper. The proposal will reflect the formulation of a research problem and the development of a plan for its empirical investigation. Once a proposal is successfully defended, it constitutes an agreement between the student and the MA committee.

Students must prepare the thesis or master’s paper under the direction of their committee, receive approval that it meets professional standards, and defend it at an oral examination. The master’s paper is normally the length of a journal article (about 30 pp.). Students who choose to write a thesis should consult the Graduate School Thesis and Dissertation Formatting (<https://uwm.edu/graduateschool/thesis-dissertation-formatting/>) page. The thesis must be prepared according to these format requirements.

### MA Examination

The Master of Arts examination option is based on a bibliography developed by the student in consultation with their committee. The bibliography will represent both classical statements and recent debates in at least one area of sociological specialization. Students are encouraged to develop the bibliography by the end of the third semester of residence.

The examination itself will be a set of three questions developed by the MA committee, from which the student must choose two. The student will have two weeks to write a take-home examination. The advisor and two other faculty members will grade the examination. Within two weeks of the completion of the written examination, there will be an oral examination on the same material.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Sociology, Minor

Everyone is part of multiple social groups. Your local community, your ethnic group, your religious organization, your workplace, your team, your family - these are all examples of groups to which you might belong. The Sociology minor pairs well with almost any other major since it provides insight into human behavior and group dynamics. Understanding the social causes and consequences of human behavior is beneficial in business, law, urban planning, the arts, nursing and healthcare, education, and more.

The minor in Sociology requires 18 credits in Sociology courses (6 courses), with 9 of those credits in courses numbered 300 or above taken in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all transfer credits applied to the minor.

The Sociology minor is available entirely online for students that wish to earn their degree from a distance. All classes required for the minor can be taken online, or students can mix-and-match and take some online and some traditional classes.

## Requirements

Students must complete at least 9 upper-division (numbered 300 and above) credits in the minor in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

The minor in Sociology requires 18 credits in Sociology courses (6 courses), with 9 of those credits in courses numbered 300 or above taken in residence at UWM.

## Declare Your Sociology Minor with a Faculty Advisor

Advising for the minor takes place within the department by a faculty member. Click on "Declare Your Minor (<https://uwm.edu/sociology/students/undergraduates/declare-your-minor/>)" to fill out an application to join the program. Then, a faculty advisor will review your transcript and reach out to you to let you know exactly where you are in your progress toward the minor.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Sociology, PhD

The PhD is the highest degree conferred by the university and is distinguished by its emphasis on creative scholarship representing original research. Our PhD in sociology prepares students for research and teaching careers in colleges and universities, as well as research and policy positions in a wide variety of applied settings. Our doctoral

students develop expertise in social systems and dynamics and quantitative and qualitative research skills.

The core course sequence for PhD students provides a strong foundation in sociological theory, research, and analysis, while elective courses and faculty mentoring help develop students' expertise in their chosen areas of sociological interest. Doctoral students pursue specialization within one of two broad focal areas—Social Inequalities (including race/ethnicity, gender, sexuality, and class) and Social Institutions (including politics, education, family, crime, work, organizations, health, science, and culture.) The Department works with students to develop advanced skills in both research and teaching.

Graduate students in the UWM Department of Sociology come from a wide variety of backgrounds. We welcome applications from prospective students with a Master's degree in sociology, as well as those with degrees in other fields who have developed a passionate interest in sociology. We also permit BA holders to directly apply to our PhD program; if such an application seems more appropriate for the MA program, we will move it to the MA applicant pool without requiring the student to pay an additional application fee. Please visit the **Graduate School's Future Students** webpage to learn about graduate study at UWM and life in Milwaukee.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

New graduate students are admitted to the PhD Program in Sociology only for the fall semester. Completed applications should be received by the department no later than January 10th of the year the applicant intends to start, but if space permits we continue to review applications received until mid-April.

An applicant must meet the UWM Graduate School's requirements for admission to the PhD program in Sociology. In addition, applicants to the PhD program must:

1. Possess a master's degree in Sociology or be in the process of completing a master's degree at the time of application, with the expectation of completion of the degree prior to beginning the PhD program.
  - a. Students without a master's degree in sociology are eligible for admission to the PhD program if:
    - i. they have a bachelor's degree in sociology or a related field and they show exceptional preparation for graduate school or
    - ii. they have a master's degree in a closely related field.
  - b. In addition to the requirements for the PhD, all students must:
    - i. complete the required courses for the master's degree in sociology or comparable courses from other institutions and
    - ii. earn or transfer 24 credits in graduate-level work in sociology or a closely related field. If fewer than 24 credits are ruled acceptable for the doctoral program, the student will have to make up those credits.

2. Submit a copy of the applicant's MA thesis or paper, or, if an applicant did not complete a thesis, a scholarly writing sample of original sociological research.
3. Provide three letters of recommendation from persons, preferably faculty, familiar with the applicant's scholastic achievement and potential.
4. Submit a reasons statement (statement of purpose) that explains your reasons for pursuing graduate study, describes your specific interests and background in the field, and lists any relevant skills, training, and academic awards or honors.

Submission of GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores is optional. GRE scores often enhance an application, so applicants are welcome to submit scores for consideration in the review of their application, but GRE scores are not required for an application to be reviewed.

### Financial Support

The major source of financial assistance for graduate students in sociology is employment as a teaching assistant. Assistantships are granted every academic year on a competitive basis and may be renewed for an additional three years and include a stipend, full tuition remission and eligibility for low-cost health insurance.

Graduate students also are eligible for fellowships awarded by the Graduate School on a competitive basis. Additional information on the types and availability of fellowships may be obtained directly from the Graduate School.

### Reapplication/Readmission

Students who receive the MA in Sociology from UWM must reapply to be considered for admission into the PhD program.

## Credits and Courses

The program will require 36 graduate credits of coursework at the post-master's level. We expect entering students to have completed the following courses or their equivalents in the process of earning a master's degree:

Code	Title	Credits
SOCIOL 715	Systematic Sociological Theory	3
SOCIOL 750	Research Methods in Sociology	3
SOCIOL 760	Advanced Statistical Methods in Sociology	3

Students who have not taken these courses prior to admission to the PhD program will be required to complete them in the first year of their pursuit of a doctoral degree. Credits earned in these courses will not count as part of the 36 credits required at the post-master's level.

At the PhD level, students must complete the following coursework:

Code	Title	Credits
<b>Core</b>		
SOCIOL 910	The Sociology of Inequality	3
SOCIOL 911	The Sociology of Institutions	3
SOCIOL 982	Advanced Quantitative Analysis	3
Select one additional elective course in social science methodology		3
<b>Specialization</b>		

Select three courses designated in one of the following specialty areas: 9

Social Inequalities	
Social Institutions	
<b>Electives</b>	
Select at least 9 elective credits	9
Select up to 6 dissertation credits	6
<b>Additional Requirement</b>	
Ph.D. students with Teaching Assistant positions must complete the following course (which is offered each spring):	0-2
SOCIOL 794	Proseminar: The Teaching of Undergraduates

**Total Credits 36-38**

Doctoral students may not accumulate more than 6 credits in U/G courses nor more than 6 credits of independent study without the approval of the Sociology Director of Graduate Studies. Of the 60 required credits, no more than 12 credits outside of Sociology may be counted toward the doctoral degree without the approval of the Sociology Director of Graduate Studies.

## Additional Requirements

### Major Professor or Advisor

Each new student will be assigned an initial advisor from among the department's faculty. By the second year in the program, students will be expected to select their own major advisor and, in consultation with this advisor, a committee for preliminary examinations and the dissertation. The major advisor for each student, assisted by the student's dissertation committee and the director of graduate studies, will take primary responsibility for guiding the student successfully through the program and into the labor market and career opportunities.

### Preliminary Examination

All doctoral students are required to complete preliminary examinations in two specialty areas after completing 27 credits at the post-master's level. The areas are selected by the doctoral candidate in consultation with the student's advisor and other members of the graduate faculty. Examination areas are limited to those subfields or subdisciplines that are within the student's area of specialization and widely recognized areas within sociology. The disciplinary subfields must be broader than, but related to, the focus of the student's dissertation and must be approved by the Department's Graduate Studies Committee. Examinations will consist of the student answering three or more questions from a list containing at least five, as determined by the student's committee. Candidates write their answers on one full day in September and March.

An empirical or substantive paper may be substituted for one preliminary examination. The empirical paper is read and evaluated by two members of the graduate faculty in sociology, in addition to the student's major professor. The length and quality of the paper should be similar to that of a journal article. Students should use the format for the journal to which they would like to submit the paper. The paper also may be in the style of a full length Annual Review of Sociology piece or similar article.

Students who do not pass an examination on the first attempt will be provided feedback on their performance and be allowed to take the exam a second time but must do so within 9 months of the administration of the first exam. Students who do not complete the examination

successfully upon the second attempt will not be allowed to continue in the program.

## Dissertation

The dissertation is a major piece of original research representing a substantial contribution to sociological scholarship. In order to become eligible for dissertation status the student must complete a successful oral defense of a dissertation proposal before the student's doctoral committee.

The dissertation itself, under the supervision of the major professor and in collaboration with a dissertation committee, must demonstrate the ability of the candidate to formulate a research topic and pursue independent and original research representing a substantial contribution to sociological scholarship. The practices necessary for completion of the dissertation will conform to the guidelines established by the UWM Graduate School. The dissertation committee shall be composed of the major professor and three additional graduate faculty members (at least two of whom must be from the UWM Department of Sociology graduate faculty). The dissertation committee is responsible for assessing the dissertation project, which involves approving the dissertation proposal, reviewing working drafts of research in progress, and, finally, evaluating the candidate's ability to defend decisions made during the course of research and the results of the research. After submission of a reading copy of the dissertation to the faculty dissertation committee, the candidate and the major professor will schedule a committee meeting for the purpose of undertaking an oral defense of the dissertation work by the candidate. At the conclusion of the candidate's oral remarks, the dissertation committee will vote on passing the candidate's dissertation work. A majority of the committee must vote to approve the dissertation and recommend granting of the Doctor of Philosophy degree.

## Time Limit

All components of the PhD program must be completed within 10 years of matriculation.

## Spanish and Portuguese

Through effective communicative instruction, we prepare students to read, speak, write, and understand Spanish and Portuguese. Our course offerings reflect and respond to the diversity of our students, who include: heritage speakers, non-traditional students, professionals in a variety of fields, as well as traditional students. We encourage students to participate in study abroad programs and second-language activities as a means of improving proficiency.

Faculty are actively engaged in advancing knowledge in their respective areas of expertise and striving to link, in the manner most beneficial for students, critical and scholarly work to classroom instruction and advising activities.

We assume a leadership role in disseminating Hispanic, U.S. Latino, and Luso-Brazilian culture, not only to the campus community but to the Milwaukee area and the state of Wisconsin as well.

## Programs

- Business Spanish, Minor (p. 1297)
- Portuguese, Minor (p. 1297)
- Spanish for Health Professionals, Undergraduate Certificate (p. 1298)
- Spanish, BA (p. 1299)
- Spanish, MA (p. 1303)
- Spanish, Minor (p. 1304)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Susana Antunes	Assistant Professor	PhD	University of Massachusetts-Amherst		
Nancy Bird-Soto	Professor	PhD	University of Wisconsin-Madison	✓	
Santiago Daydi-Tolson	Professor Emerita	PhD			✓
César Ferreira	Professor	PhD	University of Texas-Austin	✓	
R. John McCaw	Associate Professor	PhD	Princeton University	✓	
Ismael Márquez	Professor Emerita	PhD			✓
Gabriel Rei-Doval Grela	Associate Professor	PhD	Universidad de Santiago de Compostela	✓	
Julio Rodríguez-Luis	Professor Emerita	PhD			✓
M. Estrella Sotomayor	Senior Lecturer	PhD	University of Wisconsin-Milwaukee		
Ester Suárez-Felipe	Senior Lecturer	MA	University of Wisconsin-Milwaukee		
Marguerite Suárez-Murias	Professor Emerita	PhD			✓
Allison Libbey	Senior Lecturer, Spanish Language Coordinator	PhD	University of Virginia		
Pierre Ullman	Professor Emerita	PhD			✓
Katie Vater	Associate Professor	PhD	Pennsylvania State University	✓	
Kathleen M. Wheatley	Associate Professor, Chair	PhD	University of Michigan	✓	
Magaly Zeise	Senior Lecturer		Universidad de Los Andes, Bogotá, Colombia		



## Business Spanish, Minor

In addition to the major and minor in Spanish, students can also complete a minor in Business Spanish, with a focus on the business and legal terminology and concepts that are relevant within the United States and the 21 countries in which Spanish is the official language. The minor in Business Spanish requires the completion of 18 credits, including two required courses in Business and Legal Spanish.

### Requirements

The minor in Business Spanish requires the completion of 18 credits as indicated below. At least 9 of the 300-level or above credits must be taken in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work. Students are responsible for completing any prerequisite courses as well.

Code	Title	Credits
<b>Required</b>		
SPANISH 308	Advanced Writing and Reading	3
SPANISH 318 or SPANISH 319	Advanced Speaking and Listening Advanced Speaking and Listening for Heritage Speakers	3
SPANISH 332	Using Spanish in the Business World	3
SPANISH 342	Business and Legal Spanish	3
<b>Electives</b>		
Select from the following list of Business courses		6-8
BUS ADM 200	Business and Society	
BUS ADM 201	Introduction to Financial Accounting	
BUS ADM 230	Introduction to Information Technology Management	
BUS ADM 292	Introduction to Entrepreneurship and Small Business Formation	
BUS ADM 330	Organizations	
BUS ADM 360	Principles of Marketing	
BUS ADM 391	Business Law I	
BUS ADM 393	Business Ethics, Social Responsibility and Sustainability	
<b>Total Credits</b>		<b>18-20</b>

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes

and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Portuguese, Minor

UW-Milwaukee is the only other university in Wisconsin besides UW-Madison that offers Portuguese on a regular basis. We offer an undergraduate minor in Portuguese.

Students are strongly encouraged to utilize our Center for International Education to take advantage of study abroad (<http://uwm.edu/cie/study-abroad/>) experiences available in Brazil and Portugal for a semester or year.

### Requirements

The undergraduate minor in Portuguese requires 18 credits of Portuguese taken in courses numbered PORTUGS 203 or above. Nine credits must be taken at the 300 level or above in residence at UWM. The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

Students with no previous Portuguese language experience should enroll in PORTUGS 103. After consultation with the Portuguese coordinator, a student may enroll in a course higher than PORTUGS 103, if appropriate. Students placed into a course beyond the PORTUGS 103 level who complete their first course with a grade of at least B may receive retroactive credits, to a maximum of 14 credits, for the courses leading to the one into which they are placed. Courses that generate Credits for Demonstrated Equivalent Preparation (retroactive credits) are the following:

Code	Title	Credits
PORTUGS 104	Second-Semester Portuguese (4 retroactive credits)	
PORTUGS 203	Third-Semester Portuguese (8 retroactive credits)	
PORTUGS 204	Fourth-Semester Portuguese (11 retroactive credits)	
PORTUGS 310	Advanced Composition and Conversation (14 retroactive credits)	

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the

program's website. If you have questions about the minor before then, contact let-sci@uwm.edu.

## Spanish for Health Professionals, Undergraduate Certificate

The Spanish for Health Professionals (SHP) Certificate Program is designed to provide students with the language skills and cultural knowledge needed to help Spanish-speakers successfully negotiate the health care system. Graduates of the program leave not only with proficiency in medical Spanish, but also with an understanding of the Hispanic culture and how that culture may affect healthcare practices and the delivery of health services.

This certificate will enhance the credentials of individuals seeking a career in direct patient care such as doctor, nurse, physician assistant, nurse practitioner, or physical therapist, or anyone who works with Spanish-speakers in a healthcare setting such as insurance providers or healthcare navigators.

Hispanic and Latino groups are the largest minority group in the United States, and Spanish-speakers constitute the fastest-growing segment of the U.S. population. In Milwaukee alone, Spanish-speakers make up almost 20% percent of the population (2020 Census). As these populations grow, so does the need for healthcare workers who can communicate with and advocate for Spanish-speaking patients.

Students in the program gain expertise in the language of health care, in Spanish, including colloquial Spanish; an understanding of cultural differences that impact the delivery of health care services to Hispanic populations; and knowledge of the health care concerns of many different groups of Spanish-speakers.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

### Eligibility

The Spanish for Health Professionals Certificate is open to all students seeking a bachelor's degree from UWM, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to individuals who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this topic. To be admitted as non-degree candidates, individuals must meet regular University admissions requirements. Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the certificate at the time of graduation. Students who already have a bachelor's degree and non-degree students will receive the certificate upon completion of the program requirements.

### Requirements

The Certificate in Spanish for Health Professionals is for both students in health professions who are interested in working with Hispanic populations and students with some Spanish competency who wish to develop familiarity with the health-related vocabulary in Spanish.

To obtain the certificate, students must complete at least 18 credits in courses approved for the Spanish for Health Professionals certificate, with at least 12 credits taken in residence at UWM and a minimum of 9 of the credits in residence taken in L&S courses at the advanced

level (courses numbered 300 and above). A maximum of 6 credits in a combination of independent study, internship, and study abroad courses may count toward the certificate. Students must earn a 2.00 GPA in all certificate courses, including transfer work, and in the courses for the certificate taken at UWM. Courses for the certificate may not be taken on a credit/no credit basis. The certificate requirements are as follows:

Code	Title	Credits
<b>Required</b>		
SPANISH 308	Advanced Writing and Reading	3
SPANISH 318 or SPANISH 319	Advanced Speaking and Listening Advanced Speaking and Listening for Heritage Speakers	3
SPANISH 338	Spanish for Health Professionals	3
SPANISH 388	Health Issues in the Hispanic World	3
<b>Electives</b>		
Select 6 credits in health-focused electives listed below in any combination		6
<b>Total Credits</b>		<b>18</b>

### Health-focused Electives (by interest area)

Select at least 6 credits from courses below. Please note that most courses listed are 3-credit courses but a few are not.

#### Health Communication

Code	Title	Credits
COMMUN 381	Health Communication	3
COMMUN 481	Interpersonal Issues in Health Communication	3
COMMUN 581	Health Communication Interventions	3

#### Pharmaceuticals, Medicine, and Drugs

Code	Title	Credits
ANTHRO 443	Medicine and Pharmaceuticals in the Global Age	3
BMS 260	Introduction to Complementary and Integrative Health Approaches	3
HCA 212	Drugs Used and Abused	3
PSYCH 454	Psychopharmacology and Addiction	3

#### Health Care Delivery Policy

Code	Title	Credits
ECON 450	Health Economics	3
HCA 502	Healthcare Delivery Systems: National and International Perspectives	3
PH 408	Comparative Health Systems: A Social Determinants Approach	3
PHILOS 244	Ethical Issues in Health Care: (subtitle)	3

#### Health: A Social Science Perspective

Code	Title	Credits
ANTHRO 440	Medical Anthropology	3
COMSDIS 210	Survey of Communication Disorders (SS GER)	3
PSYCH 555	Health Psychology	3
SOCIOL 282	Sociology of Aging	3
SOCIOL 331	Sociology of Health Care	3

## Health: A Natural Science Perspective

Code	Title	Credits
BMS 232	Introduction to Nutrition (NS GER)	3
HS 101	Introduction to Health and Disease	2
PH 303	Climate Change, the Environment and Human Health (NS GER)	3

## Global Health

Code	Title	Credits
ANTHRO/GLOBAL 439	Culture and Global Health	3
NURS 101	Cultural Diversity in Health Care <sup>1</sup>	3
NURS/GLOBAL 301	Introduction to Global Health	3
NURS 380	Honors Seminar: <sup>1</sup>	3
NURS 401	Global Patterns of Disease	3
NURS/GLOBAL 575	Global Health: Ethics and Human Rights	3
PH 142	Exploring Global Environmental Health	3

<sup>1</sup> Students who take NURS 380 cannot take NURS 101 for credit (NURS 380 is the Honors version of this course).

## Public Health

Code	Title	Credits
PH 101	Introduction to Public Health	3
PH 302	Health and Disease: Concepts and Contexts	3
PH 319	Introduction to Health Disparities	3
PH 327	Foundations for Action in Public Health	3
PH 427	Strategies for Action in Public Health	3
HCA 307	Epidemiology for the Health Sciences	3

Study abroad courses in Spanish-speaking countries or other courses relevant to Spanish for Health Professionals may be accepted with the approval of the Spanish Undergraduate Advisor, in consultation with advisors and/or faculty from other programs..

Credits earned at other institutions equivalent to courses in the certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Spanish Undergraduate Advisor.

## Spanish, BA

Spanish is spoken by nearly 550 million people worldwide and is an official language in 21 countries and a number of international organizations. Spanish is among the four most spoken languages in the world and has more native speakers than any language except Chinese. Fluency in Spanish opens countless career opportunities for students.

A Spanish major provides exceptional preparation for students interested in a career in business, international affairs, social services, government, health care, communication, translation, marketing, teaching or any profession that requires bilingual written or oral communication skills and cultural understanding. Whether you already have some Spanish communication skills or are starting at the beginning, you will develop both your language capabilities as well as your cultural competence as part of our major. Classes focus on not only language, but literature, linguistics, customs, values, and culture so that students leave UWM ready to speak, read, write and understand Spanish in business and social contexts. Students are strongly encouraged to utilize our Center for

International Education to take advantage of study abroad experiences available in Argentina, Chile, Ecuador, Mexico, Peru and Spain. Some students go short-term, such as a week or two, while others choose to stay abroad for a summer program, a semester or a year.

A Spanish minor and a Business Spanish minor are also available. The Spanish minor can be completed with most Spanish courses at the 300-level and above, while the curriculum for the Business Spanish minor is more structured, with required courses in Business and Legal Spanish. In addition, students who plan to pursue healthcare careers will find value in our Certificate in Spanish for Health Professionals (<http://uwm.edu/letters-science/programs/?discipline=Spanish+for+Health+Professionals>). The certificate is similar to a minor in terms of the number of credits required and can enhance a student's resume.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		

### Part A

Achieve a grade of C or better in the following course:

ENGLISH 102	College Writing and Research (or equivalent)
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### Part B

Course designated as OWC-B; may be completed through a major-specific course requirement

### Quantitative Literacy

#### Part A

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra

Or equivalent course	
<i>Part B</i>	
Course designated as QL-B; may be completed through a major-specific course requirement	
<b>Arts</b>	
Select 3 credits	3
<b>Humanities</b>	
Select 6 credits	6
<b>Social Sciences</b>	
Select 6 credits	6
<b>Natural Sciences</b>	
Select 6 credits (at least two courses including one lab)	6
<b>UWM Foreign Language Requirement</b>	
Complete Foreign Language Requirement through:	
Two years (high school) of a single foreign language	
Two semesters (college) of a single foreign language	
Or equivalent	
<b>UWM Cultural Diversity Requirement</b>	
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement	

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3

MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		
	Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)	0-18

Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)

#### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

#### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

#### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition,

students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

### Spanish Major Requirements

The major in Spanish requires 33 credits at the 300 level and above. At least 15 of these advanced credits must be taken in residence at UWM. PORTUGS 202 may be used to satisfy 3 credits of these 33 advanced credits.

The College requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM, as well as in any transfer work counting toward the major.

All majors are required to take an exit examination, which is offered on campus near the end of each semester. It is recommended strongly that they take this exam during their last semester in the Spanish program.

Code	Title	Credits
<b>Required</b>		
<b>Language</b>		
SPANISH 308	Advanced Writing and Reading	3
SPANISH 318 or SPANISH 319	Advanced Speaking and Listening Advanced Speaking and Listening for Heritage Speakers	3
<b>Linguistics</b>		
SPANISH 341	Introduction to Hispanic Linguistics	3
<b>Literature</b>		
SPANISH 350	Introduction to Literary Analysis	3
<b>Select three electives at the 300-level or above, or PORTUGS 202:</b>		
<b>1</b>		
PORTUGS 202	Portuguese for Spanish Speakers <sup>2</sup>	
SPANISH 332	Using Spanish in the Business World	
SPANISH 333	Advanced Spanish Grammar	
SPANISH 338	Spanish for Health Professionals	
SPANISH 348	Introduction to Translation: English to Spanish	
SPANISH 388	Health Issues in the Hispanic World	
SPANISH 391	Social and Historical Issues in the Hispanic World:	
<i>Only one of the following 300-level courses, taught in English, count as an elective:</i>		
PORTUGS 360	Luso-Brazilian Culture:	

SPANISH 371	Introduction to Latino Literature in English	
SPANISH 373	Topics in Latino Literature in English:	
<b>Select three electives at the 400-level or above:</b> <sup>1</sup>		<b>9</b>
SPANISH 443	Spanish Phonetics and Phonology	
SPANISH 444	Spanish Syntax and Morphology	
SPANISH 446	Hispanic Sociolinguistics	
SPANISH 470	Survey of Hispanic Literature and Civilization	
SPANISH 472	Survey of Spanish-American Literature and Civilization	
SPANISH 474	Survey of Spanish Literature and Civilization	
SPANISH 491	Topics in Hispanic Culture:	
<b>Select one course at the 500 level (fulfills L&amp;S Research Requirement):</b> <sup>3</sup>		<b>3</b>
SPANISH 506	Seminar in Spanish Literature:	
SPANISH 507	Seminar in Spanish-American Literature:	
SPANISH 508	Seminar in Hispanic Literature:	
SPANISH 541	History of the Spanish Language	
SPANISH 545	Seminar in Hispanic Linguistics:	
SPANISH 570	Seminar in Spanish Golden Age Literature:	
SPANISH 572	Seminar on Cervantes:	
SPANISH 578	Seminar in Modern Spanish Literature and Civilization:	
<b>Total Credits</b>		<b>33</b>

<sup>1</sup> Students may always use a higher-level course to satisfy lower-level electives. For example, to satisfy the "three 300-level or above electives" requirement, a student may take one 300-level course and two 500-level courses.

<sup>2</sup> We encourage our Spanish majors to build on their proficiency in Spanish in order to develop their language skills in Portuguese, a language closely related to Spanish historically, geographically and linguistically. Because of this, PORTUGS 202 also counts towards the Spanish major, as a 300-level elective, and prepares students to continue their study of Portuguese if they are interested in completing a minor.

<sup>3</sup> Students must complete the L&S research experience in a 500-level course. All of these courses include a research component that serves to develop students' ability to do independent research in a specific field of interest. Both the oral presentation and the written research paper will be evaluated and rated in the areas of language acquisition/usage as well as research ability/synthesis. Students who complete a second 500-level course as one of their electives and fulfill other GPA requirements can apply for Honors in the major.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your

entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Spanish majors who meet the following requirements may apply to the undergraduate advisor to graduate with Honors in the Major:

1. Maintain at least a 3.500 GPA in all advanced credits that count toward the major;
2. Maintain at least a 3.000 GPA in all graded courses attempted at UWM; and
3. Take at least two 500-level Spanish courses.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Spanish, MA

The Department of Spanish and Portuguese offers a program of graduate study leading to a Master of Arts degree that focuses on the study of the Spanish cultures, language, linguistics, and literatures of the Hispanic world. Spanish MA graduates who subsequently wish to pursue the PhD are very advanced in the process of mastering the area in which they wish to specialize in their doctoral studies. Those who choose not to continue studying toward a PhD or a career in teaching will be able to pursue employment in other fields that require full proficiency in the Spanish language as well as mastery of Hispanic literature, culture, and linguistics.

The Department of Spanish and Portuguese has identified five learning outcomes for our MA majors in Spanish. These educational goals relate closely to the National Standards for Foreign Language Learning, as recommended by the American Council of Teachers of Foreign Languages.

Students will be able:

1. To communicate with an advanced or high-level of Spanish proficiency in all four skill areas including listening, reading, writing, and speaking.
2. To develop an advanced understanding and appreciation of Hispanic cultures and communities throughout the world, and analyze and draw cross-cultural differences which will be essential to future careers in a growing global environment.
3. To build a foundation of knowledge in the areas of Spanish and Spanish-American literature, culture, and linguistics, which will give students the breadth necessary for subsequent specialization in doctoral studies.
4. To develop and expand research and analytical skills within the area of Hispanic Studies, including literary analysis, cultural studies, and linguistic analysis.
5. To develop basic reading competencies in an additional romance language to prepare students for further research and provide broader career options.

The Department also participates, and works closely, with the Center for Latin American and Caribbean Studies.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet general admission requirements for the Graduate School, as established by the graduate faculty of the university, plus the following requirements to be considered for admission:

1. A bachelor's degree with a major in Spanish, foreign languages with an emphasis in Spanish, comparative literature, Hispanic linguistics, or translation; or with a combination of courses that will, in the opinion of the Department, allow the student to participate fully in the program.
2. A 3.0 grade point average in the last 60 credits of undergraduate coursework.
3. A narrative statement of intent, written in both Spanish and in English.
4. A Curriculum Vitae.
5. An academic writing sample in Spanish.
6. Three letters of recommendation from former professors or advisors.

Applicants who do not have the requisite 3.0 grade point average in the last 60 credits of the undergraduate degree may be considered for admission on probation. Students will be removed from probation at the end of their first semester of enrollment if they achieve at least a 3.0 grade point average.

## Credits and Courses

A content-based examination is mandatory for all incoming students. The results of this examination are used to develop the program of study. Students with insufficient preparation for graduate study in one or more areas may be admitted with specific, program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

A minimum of 30 graduate credits beyond the baccalaureate degree is required for the MA in Spanish. All students must demonstrate reading competency in a second Romance language. In order to do so, they may take the departmental graduate reading exam or complete two semesters in another language. Courses taken to complete this requirement do not count toward the minimum credits required for the MA

Specific course requirements and credit distribution are as follows:

Code	Title	Credits
SPANISH 701	Historical Linguistics (or equivalent)	3
SPANISH 720	Approaches to Hispanic Literary Theory and Criticism (or equivalent)	3
Select 12 credits in Spanish or Spanish-American literature and culture courses at the 700 level or above		12
Select 6 credits in language and/or linguistics courses in Spanish		6
Select 6 credits of electives in Hispanic culture, language, linguistics, literature, thesis, or related courses		6
<b>Total Credits</b>		<b>30</b>

All teaching assistants are required to enroll in MALLT 700 or an equivalent course during their first year. This course counts toward the 6 credits of electives.

No 300-level courses will apply toward the degree, and a maximum of six (6) graduate credits in 400-level U/G courses may be used to fulfill degree requirements.

The MA degree in Spanish offers both non-thesis and thesis options.

## Additional Requirements

### Major Professor as Advisor

All students must have a major professor who serves as an advisor and supervises their course of study. The Director of the MA program acts as the initial advisor for all entering students. By the end of the second semester, students will be matched with an advisor based on their academic interest.

### Non-Thesis Option

Students pursuing the non-thesis option must complete a minimum of thirty (30) credits of acceptable graduate-level coursework (including the courses specifically required) and receive a passing grade on the final comprehensive examination.

### Thesis Option

Students pursuing the thesis option must complete a minimum of twenty four (24) credits of acceptable graduate-level coursework, successfully defend a thesis for which a maximum of six (6) credits is granted, and receive a passing grade on the final comprehensive examination.

Students in the thesis option should choose an area of specialization for the thesis as early as possible. After a thesis topic is chosen, students, with the approval of the major professor, select two additional members of the graduate faculty in the area of concentration to serve as the thesis committee. A member of the graduate faculty specializing in the student's area of concentration acts as the thesis director and chair of the committee. Students writing a linguistics-based thesis may use either the APA, LSA, or MLA style. All other theses must be written following the MLA style.

Upon the approval of the Departmental Graduate Studies Committee, a student may be allowed to write the Spanish MA thesis in Spanish; each request will be examined on an individual basis to ensure the highest quality of theses and the linguistic ability of each petitioner. Those approved to write the thesis in Spanish must also provide an abstract written in English.

### Comprehensive Final Examination

Students enrolled in the thesis and non-thesis options take the same MA comprehensive examination. Students are urged to take the examination no later than the fourth semester of graduate study. The examination may be repeated once.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Spanish, Minor

Spanish is spoken by nearly 550 million people worldwide and is an official language in 21 countries and a number of international organizations. Spanish is among the four most spoken languages in the

world and has more native speakers than any language except Chinese. Fluency in Spanish opens countless career opportunities for students.

The Spanish minor provides exceptional preparation for students interested in a career in business, international affairs, social services, government, health care, communication, translation, marketing, teaching or any profession that requires bilingual written or oral communication skills and cultural understanding. Whether you already have some Spanish communication skills or are starting at the beginning, you will develop both your language capabilities as well as your cultural competence as part of our program. Classes focus on not only language, but literature, linguistics, customs, values, and culture so that students leave UWM ready to speak, read, write and understand Spanish in business and social contexts. Students are strongly encouraged to utilize our Center for International Education to take advantage of study abroad (<https://uwm.edu/cie/study-abroad/>) experiences available in Argentina, Chile, Ecuador, Mexico, Peru and Spain. Some students go short-term such as a week or two while others choose to stay abroad for a summer program, a semester or a year.

The Spanish minor can be completed with most Spanish courses at the 300-level and above. Students who plan to pursue healthcare careers will find value in our Certificate in Spanish for Health Professionals (p. 1298). The certificate is similar to a minor in terms of the number of credits required and can enhance a student's resume.

## Requirements

The minor in Spanish consists of 18 credits at the 300 level or above, at least 9 of these in residence at UWM. These credits may include a maximum of 3 credits selected from SPANISH 371 and PORTUGS 360. No literature-in-translation courses may count toward the minor.

The College requires that students attain at least a 2.0 GPA on all credits in the minor attempted at UWM. In addition, a 2.0 GPA on all minor credits attempted, including any transfer work, is required.

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Translation and Interpreting Studies

The Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate



with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

- be an in-house translator
- be a freelancer
- be a translation company owner
- specialize in your area of interest

- pursue doctoral studies
- develop your professional skills without pursuing a degree
- Interpreting, Graduate Certificate (p. 1305)
- Translation and Interpreting Studies, MA (p. 1306)
- Translation and Interpreting Studies, MA/Business Administration, MBA (p. 1308)
- Translation and Interpreting Studies, MA/Library and Information Science, MLIS (p. 1309)
- Translation, Graduate Certificate (p. 1310)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Viktorija Bilić	Associate Professor	PhD	Heidelberg University	✓	
Anne O. Fisher	Senior Lecturer	PhD	University of Michigan		
Amy Olen	Assistant Professor	PhD	University of Texas	✓	
Kathryn Scholz	Senior Teaching Faculty	MA	University of Minnesota		
Lorena Terando	Professor	PhD and MT	State University of New York	✓	

## Interpreting, Graduate Certificate

The demand for interpreting services in the U.S. far exceeds the supply of qualified interpreters, and the federal government estimates that job opportunities for interpreters will increase significantly faster than the average rate of job growth through 2030. The Graduate Certificate in Interpreting offers online professional training to students in any of the offered language pair. The program is designed for those who have earned an undergraduate degree, have either significant industry experience or post-graduate degrees, and are interested in language-services careers focused on interpreting.

The Graduate Certificate program is recognized by the American Translators Association as an approved Translation & Interpreting Studies program. Alumni go on to work as freelance or in-house interpreters in a broad range of areas, including legal, medical, and community interpreting.

Please visit this page (<https://uwm.edu/translation-interpreting-studies/contact/request-for-information/>) to request more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Eligibility and Admission

Applicants to the Graduate Certificate program in Interpreting must hold a bachelor's degree with an overall grade point average (GPA) of 2.75. If the GPA is less than 2.75, the applicant must provide substantial evidence of ability to succeed in graduate-level work.

A degree in the applicant's foreign language or advanced study in that language is desirable but not required. To be eligible for admission, all applicants to the certificate program must submit a reason statement and pass a qualifying examination administered by the faculty of

Translation & Interpreting Studies (TIS) (<https://uwm.edu/translation-interpreting-studies/admissions/qualifying-exam/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Students must complete 21 credits of required courses. The following six courses (18 credits) must be completed at the graduate level:

Code	Title	Credits
TRNSLTN 700	Consecutive Interpreting	3
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 711	Ethics in Translation and Interpreting	3
TRNSLTN 730	Internship in Translation/Interpreting	3
TRNSLTN 722	Simultaneous Interpreting	3
TRNSLTN 750	Community Interpreting and Translation	3
<b>Total Credits</b>		<b>18</b>

### Electives

In addition to the six required courses, students must complete one elective course (3 credits). In consultation with the certificate coordinator, students select their elective from among the following courses. Other

courses relevant to the student's plan of study may be used to fulfill the elective requirement with the consent of the coordinator.

Code	Title	Credits
TRNSLTN 530	Business and Professional Aspects of Translation	3
TRNSLTN 727	Project Management in Translation	3
TRNSLTN 728	Editing for Translation	3
<b>One of the following:</b>		
TRNSLTN 706	Introduction to Translation: French to English	3
TRNSLTN 708	Introduction to Translation: German to English	3
TRNSLTN 707	Introduction to Translation: Spanish to English	3
TRNSLTN 719	Introduction to Translation: Russian to English	3
TRNSLTN 704	Introduction to Translation: Arabic to English	3
ITALIAN 413	Introduction to Italian to English Translation	3
<b>One of the following:</b>		
TRNSLTN 716	Seminar in Advanced Translation: French to English	3
TRNSLTN 718	Seminar in Advanced German Translation	3
TRNSLTN 717	Seminar in Advanced Translation: Spanish to English	3
TRNSLTN 729	Seminar in Advanced Translation: Russian to English	3

## Additional Requirements

### Transfer Credit

Up to 12 credits of graduate certificate coursework in Interpreting may be transferred into an MA degree (Translation or Interpreting concentration) in the TIS Program.

Required courses completed as part of a student's undergraduate degree will not count toward the graduate certificate. In such cases, students consult with the certificate coordinator to select appropriate elective courses (in lieu of one or more required courses) to complete the 21 credits required to earn the graduate certificate.

### Grade Point Average Requirement

Students must earn at least an average GPA of 3.0 in courses completed at the graduate level as well as a 3.0 GPA on all credits completed for the certificate. In addition, students must earn a B or better in all courses completed for the certificate.

### Capstone Requirement

All certificate students will be required to pass a one-hour interpreting examination.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:

- Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
  3. A course may count toward no more than one certificate and one degree.
  4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Translation and Interpreting Studies, MA

UWM's Translation and Interpreting Studies program offers programs of study in Research or Professional Translation, in four language pairs (French, German, Russian, and Spanish to English), and/or in Interpreting. TIS offers two coordinated degree programs: a TIS/MLIS degree with the College of Community Engagement & Professions and its School of Information Studies and a TIS/MBA with the Lubar College of Business. TIS also offers coordinated 5-year bachelor's/master's programs: BA in French, German, Global Studies, or LACUSL with the MA in Translation & Interpreting Studies.

UWM graduates who earn the MA in Translation and Interpreting Studies in any of the above formats reflect sufficient preparation for gainful post-graduation employment or admission to a Doctor of Philosophy program at a peer or aspirational institutions, and they will:

1. Be knowledgeable about the linguistic, literary, and cultural productions of their source and target communities in the past and present; be able to situate them within a historical, cultural and discursive (interdisciplinary and/or cross-cultural) context; be familiar with several major tendencies in critical and theoretical analysis, and be able to apply them to the study of these texts.
2. Provide nuanced and sophisticated discussions (in writing and in conversation) of linguistic, literary, and cultural works in English, and when appropriate, in the target language of their field of study. This includes the ability to analyze and to incorporate critical/theoretical frameworks into their written and oral discussions of literary or cultural works.
3. Be able to perform professional skills tied to the translation and interpreting field (e.g., translate/interpret accurately in their area of specialization; create and maintain terminology database resources;

efficiently and accurately conduct research related to T&I; understand broad aspects of the T&I industry).

4. Conduct independent research in Translation and Interpreting Studies. This includes the ability to develop and delimit a research question, to conduct a systematic investigation of the question, and to present or evaluate research according to standard models of analysis and argumentation.
5. Be aware of career and post-graduate opportunities that their degree makes possible, which includes knowing how to search and apply for professional opportunities or advanced study related to the MA, and participating in professional activities such as colloquia, conferences, and meetings.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Along with the Graduate School admission requirements, all applicants meet the program admission requirements. Admission is based in part on a reason statement, a qualifying examination that consists of a 200-250-word translation from the source to the target language, and one 300-500-word essay in English.

Beyond the English proficiency required by the Graduate School, the following are required: a minimum TOEFL iBT score of 83; TOEFL CBT score of 220; or IELTS score of 6.5.

## Credits and Courses

No credits carrying a grade below B- may be counted toward meeting the Translation and Interpreting Studies degree requirement of 30 credits.

Students choose one of three tracks in the Translation and Interpreting, MA - Professional Translation Track, Research Translation Track, and an Interpreting Track.

### Professional Translation Track

The Professional track consists of 30 credits at the graduate level.

Code	Title	Credits
<b>Required Core Seminars</b>		
TRNSLTN 709	Seminar in Literary and Cultural Translation	3
TRNSLTN 820	Translation Theory	3
<b>Required Non-Language specific courses</b>		
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 726	Computer-Assisted Translation	3
TRNSLTN 730	Internship in Translation/Interpreting	3
<b>Required Language-specific courses (two courses in same language pair)</b>		
TRNSLTN 706 & TRNSLTN 716	Introduction to Translation: French to English and Seminar in Advanced Translation: French to English	6

TRNSLTN 708 & TRNSLTN 718	Introduction to Translation: German to English and Seminar in Advanced German Translation	
TRNSLTN 719 & TRNSLTN 729	Introduction to Translation: Russian to English and Seminar in Advanced Translation: Russian to English	
TRNSLTN 707 & TRNSLTN 717	Introduction to Translation: Spanish to English and Seminar in Advanced Translation: Spanish to English	
<b>Electives</b>		<b>9</b>
TRNSLTN 530	Business and Professional Aspects of Translation	
TRNSLTN 700	Consecutive Interpreting	
TRNSLTN 711	Ethics in Translation and Interpreting	
TRNSLTN 727	Project Management in Translation	
TRNSLTN 728	Editing for Translation	
ENGLISH 708	Advanced Professional Writing	
ENGLISH 709	Rhetoric, Writing, and Information Technology	
INFOST 511	Organization of Information	
INFOST 571	Information Access and Retrieval	
Or other approved elective		

**Total Credits** **30**

### Research Translation Track

The Research track consists of 30 credits at the graduate level.

Code	Title	Credits
<b>Required Core Seminars</b>		
TRNSLTN 709	Seminar in Literary and Cultural Translation	3
TRNSLTN 820	Translation Theory	3
<b>Required Non-Language specific courses</b>		
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 730	Internship in Translation/Interpreting	3
TRNSLTN 790	Thesis	3
An approved course in Critical Theory		3
<b>Required Language-specific courses (two courses in same language pair)</b>		<b>6</b>
TRNSLTN 706 & TRNSLTN 716	Introduction to Translation: French to English and Seminar in Advanced Translation: French to English	
TRNSLTN 708 & TRNSLTN 718	Introduction to Translation: German to English and Seminar in Advanced German Translation	
TRNSLTN 719 & TRNSLTN 729	Introduction to Translation: Russian to English and Seminar in Advanced Translation: Russian to English	

TRNSLTN 707 & TRNSLTN 717	Introduction to Translation: Spanish to English and Seminar in Advanced Translation: Spanish to English
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<b>Electives</b>	<b>6</b>
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One Translation course in language other than the pair selected above

One course in the literature of your chosen language pair

One of the following Interpreting courses:

TRNSLTN 700	Consecutive Interpreting
TRNSLTN 722	Simultaneous Interpreting
TRNSLTN 750	Community Interpreting and Translation

One course in Translation or other Critical Theory, such as one of the following:

ENGLISH 741	Approaches to the Modern II
ENGLISH 812	Seminar in Theories of Composition and Rhetoric:
ENGLISH 877	Seminar in Film Studies:

Or other approved elective

<b>Total Credits</b>	<b>30</b>
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## Interpreting Track

The Interpreting track consists of 30 credits at the graduate level.

Code	Title	Credits
<b>Required Core Seminars</b>		
TRNSLTN 709	Seminar in Literary and Cultural Translation	3
TRNSLTN 820	Translation Theory	3
<b>Required Interpreting Courses</b>		
TRNSLTN 700	Consecutive Interpreting	3
TRNSLTN 711	Ethics in Translation and Interpreting	3
TRNSLTN 722	Simultaneous Interpreting	3
TRNSLTN 750	Community Interpreting and Translation	3
<b>Other required courses</b>		
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 730	Internship in Translation/Interpreting	3
<b>Electives</b>		
TRNSLTN 530	Business and Professional Aspects of Translation	6
TRNSLTN 727	Project Management in Translation	
TRNSLTN 728	Editing for Translation	
Translation course in a relevant language pair		
Approved course in your area of specialization		
<b>Total Credits</b>		<b>30</b>

## Additional Requirements

### Comprehensive Examinations

Candidates for graduation in all TIS tracks and concentrations must, under the direction of their major professor and the supervision of their exam committee comprised of relevant graduate faculty, complete and defend comprehensive examinations.

## Thesis

Students completing the Research track must also complete and defend a thesis. An acceptable thesis is defined as one that represents an original contribution to the field of Translation and Interpreting Studies, of sufficient caliber for publication in a peer-reviewed journal.

## Time Limit

Full-time students generally take two years to complete the program; part-time students within three to five years. The student must complete all degree requirements within five years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Translation and Interpreting Studies, MA/Business Administration, MBA

The College of Letters and Science and Lubar College of Business collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving language services industry theory and practices, and to provide high level management and administrative skills needed to work in business, industry, governmental, and nonprofit organizations.

## Requirements

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Translation and Interpreting Studies MA of the College of Letters and Science, and the MBA program of the Lubar College of Business.

## Credit and Courses

The total credits for the Coordinated Translation and Interpreting Studies/MBA program is 54. Students accepted into the Translation and Interpreting Studies/MBA program complete the following courses:

### Translation and Interpreting Studies

Code	Title	Credits
<b>Required Professional Translation Credits</b>		
TRNSLTN 709	Seminar in Literary and Cultural Translation (language-specific)	3
TRNSLTN 820	Translation Theory	3
<b>Required Non-Language specific courses</b>		
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 726	Computer-Assisted Translation	3
TRNSLTN 730	Internship in Translation/Interpreting	3

or BUSMGMT 729	MBA Internship	
<b>Required Language-specific courses (two courses in same language pair)</b>		<b>6</b>
TRNSLTN 706 & TRNSLTN 716	Introduction to Translation: French to English and Seminar in Advanced Translation: French to English	
TRNSLTN 707 & TRNSLTN 717	Introduction to Translation: Spanish to English and Seminar in Advanced Translation: Spanish to English	
TRNSLTN 708 & TRNSLTN 718	Introduction to Translation: German to English and Seminar in Advanced German Translation	
TRNSLTN 719 & TRNSLTN 729	Introduction to Translation: Russian to English and Seminar in Advanced Translation: Russian to English	
<b>Comprehensive Exam</b>		

**Total Credits** 21

### Master of Business Administration

Code	Title	Credits
BUSMGMT 704	Accounting Analysis and Control	3
BUSMGMT 705	Corporate Finance	3
BUSMGMT 706	Managing in a Dynamic Environment	3
BUSMGMT 707	Information Technology Management in International Businesses	3
BUSMGMT 708	Marketing Strategy: Concepts and Practice	3
BUSMGMT 709	Predictive Analytics for Managers	3
BUSMGMT 711	Global Supply Chain Strategies & Competitive Operations	3
BUSMGMT 712	Strategic Management (capstone)	3

**Electives** 9

Select 9 shared credits in consultation with faculty advisors from among all approved TRNSLTN or MBA elective courses

**Total Credits** 33

### Additional Requirements

The 54 credits for the coordinated program typically would be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program to receive a degree.

### Time Limit

Students in the coordinated degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Translation and Interpreting Studies, MA/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

### Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

#### Admission

An applicant must meet the UWM Graduate School requirements plus all admission requirements of both the School of Information Studies and the coordinated degree department. Please review the admission details of each program and contact an advisor with any questions.

### Credits and Courses

#### Translation and Interpreting Studies Courses

Code	Title	Credits
<b>Required Translation &amp; Interpreting Studies Courses</b>		
TRNSLTN 709	Seminar in Literary and Cultural Translation	3
TRNSLTN 820	Translation Theory	3
<b>Required Non-Language specific courses</b>		
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 726	Computer-Assisted Translation	3
TRNSLTN 730	Internship in Translation/Interpreting	3
<b>Required Language-specific courses (two courses in same language pair)</b>		<b>6</b>

TRNSLTN 706 & TRNSLTN 716	Introduction to Translation: French to English and Seminar in Advanced Translation: French to English
TRNSLTN 708 & TRNSLTN 718	Introduction to Translation: German to English and Seminar in Advanced German Translation
TRNSLTN 719 & TRNSLTN 729	Introduction to Translation: Russian to English and Seminar in Advanced Translation: Russian to English
TRNSLTN 707 & TRNSLTN 717	Introduction to Translation: Spanish to English and Seminar in Advanced Translation: Spanish to English
Comprehensive Exam	
<b>Total Credits</b>	<b>21</b>

### Basic Required MLIS Courses

Code	Title	Credits
<b>Required MLIS Courses</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Electives</b>		<b>18</b>
The 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.		
<b>Total Credits</b>		<b>30</b>

## Translation, Graduate Certificate

The Graduate Certificate in Translation offers online-only professional training to students in French, German, Spanish, Arabic, Russian, and often other languages, who wish to pursue careers in the language-services industry broadly speaking, or in other fields requiring advanced professional use of a language other than English.

Being bilingual is not enough to be a successful translator. Professional translators must be experts in both source and target cultures, skilled readers of the source language and superb writers of the target language. In addition, they need expertise in an area of specialization and a solid grasp of the language-services industry.

Our Translation & Interpreting Studies programs are housed in an accredited, Tier 1 Research institution and offer professional translator and interpreter training in a dynamic environment. Students collaborate with faculty and classmates from around the world to develop the skills they need to succeed in a thriving international market. Learn how to translate and/or interpret, and how to be a language professional through using leading industry computer-assisted translation tools and completing internships that often lead to employment. Our program can prepare you to:

- be an in-house translator
- be a freelancer
- be a translation company owner
- specialize in your area of interest
- pursue doctoral studies
- develop your professional skills without pursuing a degree

Please visit this page (<https://uwm.edu/translation-interpreting-studies/contact/request-for-information/>) to request more information.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Eligibility and Admission

Applicants to the Certificate Program must hold a bachelor's degree with an overall GPA of 2.75 or must provide substantial evidence of ability to succeed in graduate-level work.

A degree in the foreign language of concentration, or advanced study in that area, is desirable. In addition, admission to the program is based in part on a qualifying examination administered by the Program. The two-hour exam consists of a short translation from the source to the target language (between 200 and 250 words, depending on the source language) and one 300 to 500 word essay in English.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

Students must complete 21 credits of required courses; all credits must be at the graduate level, including the following:

Code	Title	Credits
<b>Required</b>		
TRNSLTN 709	Seminar in Literary and Cultural Translation	3
TRNSLTN 726	Computer-Assisted Translation	3
TRNSLTN 730	Internship in Translation/Interpreting	3
<b>Language Concentration</b>		
Select 9 credits (see below)		9
<b>Electives</b>		

Select 3 credits (see below)	3
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<b>Total Credits</b>	<b>21</b>
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### Language Concentration

Students must select a language concentration and complete the three courses (9 cr) listed below for that concentration.

#### French to English

Code	Title	Credits
TRNSLTN 706	Introduction to Translation: French to English	3
TRNSLTN 716	Seminar in Advanced Translation: French to English	3
TRNSLTN 710	Comparative Systems for Translation	3
<b>Total Credits</b>		<b>9</b>

#### German to English

Code	Title	Credits
TRNSLTN 708	Introduction to Translation: German to English	3
TRNSLTN 718	Seminar in Advanced German Translation	3
TRNSLTN 710	Comparative Systems for Translation	3
<b>Total Credits</b>		<b>9</b>

#### Spanish to English

Code	Title	Credits
TRNSLTN 707	Introduction to Translation: Spanish to English	3
TRNSLTN 710	Comparative Systems for Translation	3
TRNSLTN 717	Seminar in Advanced Translation: Spanish to English	3
<b>Total Credits</b>		<b>9</b>

#### English to Spanish

Code	Title	Credits
TRNSLTN 702		3
TRNSLTN 712		3
TRNSLTN 710	Comparative Systems for Translation	3
<b>Total Credits</b>		<b>9</b>

#### Arabic to English

Code	Title	Credits
TRNSLTN 704	Introduction to Translation: Arabic to English	3
TRNSLTN 714		3
TRNSLTN 710	Comparative Systems for Translation	3
<b>Total Credits</b>		<b>9</b>

#### Russian to English

Code	Title	Credits
TRNSLTN 719	Introduction to Translation: Russian to English	3
TRNSLTN 729	Seminar in Advanced Translation: Russian to English	3
TRNSLTN 710	Comparative Systems for Translation	3
<b>Total Credits</b>		<b>9</b>

### Electives

In consultation with the program coordinator, students must select 3 credits from among the following courses. Additional appropriate courses may be counted toward the certificate with the consent of the coordinator. All courses are online unless otherwise noted.

Code	Title	Credits
TRNSLTN 530	Business and Professional Aspects of Translation	3
TRNSLTN 727	Project Management in Translation	3
TRNSLTN 728	Editing for Translation	3
TRNSLTN 700	Consecutive Interpreting (all languages)	3
TRNSLTN 711	Ethics in Translation and Interpreting (all languages)	3
TRNSLTN 820	Translation Theory	3
MALLT 708	Proseminar in Linguistics (on site only)	3
ENGLISH 708	Advanced Professional Writing	3
ENGLISH 709	Rhetoric, Writing, and Information Technology	3

### Additional Requirements

#### Transfer Credit

Certificate coursework at the graduate level may be applied toward an MA degree in the MALLT Program. Required courses completed as part of an undergraduate degree will not count toward the certificate requirements; in such cases, students, in consultation with the certificate program coordinator, will select additional appropriate elective courses to complete a minimum of 21 certificate program credits after the baccalaureate degree has been awarded.

#### Grade Point Average Requirement

Students must earn at least an average GPA of 3.0 in courses completed at the graduate level as well as a 3.0 GPA on all credits completed for the certificate. In addition, students must earn a B or better in all courses completed for the certificate.

#### Capstone Requirement

All certificate students will be required to pass a one-hour translation examination.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.

4. Students may not earn a certificate subsequent to a concentration in the same area.

## Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Urban Studies

The Urban Studies Programs (USP) are an interdisciplinary set of programs in the College of Letters and Science. Our 25-plus faculty are drawn from 13 disciplines across 6 schools and colleges. USP offers an undergraduate certificate and major (BA), an accelerated BA-Urban Studies & Master of Urban Planning (MUP), a coordinated degree program (Master of Science in Urban Studies/Master of Library and Information Science), and master's and PhD degree programs in Urban Studies. USP is affiliated with the UWM Center for Economic Development, and is the institutional home for the Urban Affairs Association (UAA), the international professional association for urban scholars, researchers, and public service professionals..

Urban studies is about understanding the nature of urban society and change through a variety of disciplinary lenses and methods at different scales, from neighborhoods to cities and suburbs to metropolitan regions and beyond. Urban studies encompasses many different fields that are often associated with a particular discipline, such as urban politics or culture, economic development and urban revitalization; or it is focused on a particular area, like public housing or gentrification, racial inequality and segregation, environmental sustainability and urban agriculture, transit and urban planning, and the list goes on. Few academic fields offer such a variety of areas to study or so many lenses and methods to make sense of our urban world.

**For undergraduates**, completing the certificate or majoring in Urban Studies allows students to explore and study neighborhoods, cities, suburbs, and metro regions with a flexible and interdisciplinary approach drawn from over 75 courses, so students can align their studies with professional career goals. In addition, there are community placements in service learning, internships, and study-abroad opportunities in Cuba and Dublin to complement learning in the classroom. For students interested in a professional graduate degree while an undergrad, the accelerated program allows a student to complete their BA in Urban Studies in three years and earn a professional planning master's degree in two.

**For graduate students**, the Master of Science degree provides students with a broad understanding of urban society and trains them in research techniques appropriate to the study of metropolitan communities and valued in a variety of professional fields. The PhD program emphasizes history, research methodology (across six tracks), and social science theory, and prepares students to conduct sophisticated research in the field of urban studies suitable for academic, research, and leadership positions.

Beyond the classroom, we offer a wide array of extracurricular, urban-themed activities designed to complement theoretical knowledge with hands-on experience, such as our public speaker series, online journal (*e.polis*), the Student Research Forum, and the annual Urban Studies State of Milwaukee Summit. Our over 800 alumni have gone on to distinguished careers in academia, research institutions, all levels of government, and across the nonprofit sector, providing leadership in community, human service, and advocacy organizations, locally as well as across the country and internationally. We invite you to visit our website (<http://uwm.edu/urban-studies/>).

## Programs

- Urban Studies, BA (p. 1313)
- Urban Studies, MS (p. 1318)
- Urban Studies, MS/Library and Information Science, MLIS (p. 1319)
- Urban Studies, PhD (p. 1319)
- Urban Studies, Undergraduate Certificate (p. 1321)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Margo J. Anderson	Distinguished Professor Emerita (History)	PhD			✓
Anne Bonds	Associate Professor (Geography)	PhD	University of Washington	✓	
Marcus Britton	Associate Professor (Sociology)	PhD	Northwestern University	✓	
Tina L. Freiburger	Professor (Criminal Justice & Criminology)	PhD	Indiana University of Pennsylvania	✓	
Rina Ghose	Professor (Industrial & Manufacturing Engineering)	PhD	University of Wisconsin-Milwaukee	✓	
Donald E. Green	Associate Professor Emeritus (Sociology)	PhD			✓
Derek Handley	Assistant Professor (English)	PhD	Carnegie Mellon University	✓	
James Harris	Senior Teaching Faculty (Urban Studies)	PhD	University of Wisconsin-Milwaukee		



Kirk Harris	Associate Professor (Urban Planning)	PhD	Cornell University	✓
Ryan Holifield	Associate Professor (Geography)	PhD	University of Minnesota	✓
Douglas M. Ihrke	Professor (Political Science & Public and Nonprofit Administration)	PhD	Northern Illinois University	✓
Jennifer R. Jordan	Professor (Sociology)	PhD	University of California-San Diego	✓
Andrew Kincaid	Associate Professor	PhD	University of Minnesota	✓
Linnea Laestadius	Associate Professor	PhD	Johns Hopkins Bloomberg School of Public Health	✓
Marc V. Levine	Professor Emeritus (History)	PhD		✓
Genevieve McBride	Professor Emerita (History)	PhD		✓
Linda McCarthy	Professor (Geography)	PhD	University of Minnesota	✓
Stacey J. Oliker	Professor Emerita (Sociology)	PhD		✓
Joel Rast	Director (Urban Studies) & Professor (Political Science)	PhD	University of Oregon	✓
Lex Renda	Associate Professor (History)	PhD	University of Virginia	✓
Aki Roberts	Associate Professor (Sociology)	PhD	University of New Mexico	✓
Joseph A. Rodríguez	Professor (History)	PhD	University of California-Berkeley	✓
Marie Sandy	Associate Professor (Educational Policy and Community Studies)	PhD	Claremont Graduate University	✓
Robert Schneider	Professor (Architecture)	PhD	University of California-Berkeley	✓
Aaron Schutz	Professor (Educational Policy and Community Studies)	PhD	University of Michigan-Ann Arbor	✓
Amanda Seligman	Professor (History)	PhD	Northwestern University	✓
Arijit Sen	Associate Professor (History)	PhD	University of California-Berkeley	✓
Kristin Sziarto	Associate Professor (Geography)	PhD	University of Minnesota	✓
Chia Youyee Vang	Associate Vice Chancellor (Division of Global Inclusion & Engagement) & Professor (History)	PhD	University of Minnesota	✓
William Vélez	Professor Emeritus (Sociology)	PhD		✓
Frank H. Wilson	Professor Emeritus (Sociology)	PhD	University of Michigan-Ann Arbor	✓
Erin Winkler	Associate Professor (African and African Diaspora Studies)	PhD	University of California-Berkeley	✓
Lynne Woehrle	Associate Professor and MSP Program Director (Nursing)	PhD	Syracuse University	✓
Hyejin Yoon	Associate Professor (Geography)	PhD	The Ohio State University	✓

## Urban Studies, BA

The Urban Studies major draws from classes in sociology, geography, history, political science, economics, urban studies, and urban planning to explore issues related to cities, suburban communities and metropolitan regions such as transportation, education, housing, population shifts, crime, discrimination, and more.

The Department of Urban Studies develops students analytical and critical thinking abilities through an examination of the history and growth of urban centers and the challenges they face today and into the future. Our faculty includes international specialists, but much of our curriculum focuses on American cities, and Milwaukee in particular. Our home city is unique, vibrant, and a wonderful place for hands-on study and research.

Because of their interest in urban populations and problem-solving, many graduates work in the areas of community development, land-use planning, public works, community organization, housing policy development and implementation, public education administration, social services, construction management, public health, journalism and fund-raising. Entry-level roles can include tasks ranging from research to planning to program implementation to customer support.

Students in Urban Studies take courses in a variety of disciplines with elective classes that reflect their specific interests and goals. Classes may come from the History Department, Sociology, Political Science, Economics, and more. An internship or study abroad experience is a popular option for students to gain real-world experience working in urban environments. We believe so strongly that experiential learning is an essential part of an urban studies education that we require a service learning experience for all of our majors. An undergraduate certificate in Urban Studies (p. 1321) is also available for students seeking a program that is closer to a minor.

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

### University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		
Achieve a grade of C or better in the following course:		
ENGLISH 102	College Writing and Research (or equivalent)	
<i>Part B</i>		
Course designated as OWC-B; may be completed through a major-specific course requirement		
<b>Quantitative Literacy</b>		
<i>Part A</i>		
Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)		
MATH 102	Mathematical Literacy for College Students II	
MATH 103	Contemporary Applications of Mathematics	
MATH 105	Introduction to College Algebra	
MATH 108	Algebraic Literacy II	

MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	
Or equivalent course		
<i>Part B</i>		
Course designated as QL-B; may be completed through a major-specific course requirement		
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Select 6 credits		6
<b>Social Sciences</b>		
Select 6 credits		6
<b>Natural Sciences</b>		
Select 6 credits (at least two courses including one lab)		6
<b>UWM Foreign Language Requirement</b>		
Complete Foreign Language Requirement through:		
Two years (high school) of a single foreign language		
Two semesters (college) of a single foreign language		
Or equivalent		
<b>UWM Cultural Diversity Requirement</b>		
One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement		

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

## College of Letters & Science Requirements

### I. English Composition Requirement

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or
- 3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

### II. Mathematics and Formal Reasoning

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	
POL SCI 392	Survey Research	
PSYCH 210	Psychological Statistics	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		
Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. *		12
<b>Natural Sciences</b>		
Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. *		12
<b>Cultural Diversity</b>		
Complete 3 credits in a course with Cultural Diversity (CD) designation. **		3

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

## VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

## VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

# Urban Studies Major Requirements

Four required urban studies courses form the foundation of the major: URB STD 150, a core course in which students conduct service learning by working in an urban organization or agency; one of two urban studies survey courses; a theory course on urbanism and urbanization; and a capstone course (URB STD 600) taken in the senior year. Students also take a statistics course, which is a standard requirement for social science majors. In addition, students complete five elective courses selected from urban studies and approved courses in the affiliated areas. Student internships (URB STD 289 or URB STD 489) are encouraged strongly. Students also are encouraged to participate in and present at various urban studies-sponsored events, such as the annual Urban Studies Student Research Forum conference and the Urban Studies State of Milwaukee Summit, and to contribute to the *epolis* ejournal (currently, each issue includes one paper from an undergraduate).

To declare a major in Urban Studies, students can complete the declaration form on the Urban Studies website (<https://uwm.edu/urban-studies/undergraduate/undergraduate-major/declare-your-major/>) which will be followed by an appointment with the Urban Studies Associate Director to review needed courses and plan upcoming semesters.

## Course of Study

The Urban Studies major requires a minimum of 30-31 credits, including at least 18 credits in the College of Letters and Science with coursework from at least two L&S departments. No more than 9 credits in a single curricular area outside of urban studies may count toward the major. SOCIOL 377, which is jointly offered in the Urb Std curricular area, will count as an Urb Std course for this purpose. Students must complete at least 15 credits in upper-division (numbered 300 and above) L&S courses for the major in residence at UWM. In addition, students must attain a minimum GPA of 2.0 in all UWM credits attempted for the major. The College of Letters and Science also requires that students attain a 2.0

GPA in all major credits attempted, including any transfer work. The following are required:

Code	Title	Credits
<b>Core</b>		
URB STD 150	Multicultural America	3
<b>Survey</b>		
URB STD 360 or URB STD 250	Perspectives on the Urban Scene: Exploring the Urban Environment	3
<b>Statistics</b>		
Select one of the following:		3-4
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
POL SCI 390	Political Data Analysis	
SOCIOL 261	Introduction to Statistical Thinking in Sociology	
Or equivalent course approved by the program director		
<b>Theory</b>		
SOCIOL/URB STD 377	Urbanism and Urbanization	3
<b>Capstone</b>		
URB STD 600	Capstone Seminar in Urban Studies (satisfies L&S research requirement)	3
<b>Electives</b>		
Select 15 credits (see below)		15
<b>Total Credits</b>		<b>30-31</b>

## Electives

15 credits selected from the following courses or other appropriate courses approved by the program director. (No more than nine credits from the same department outside of urban studies may apply to the 30- or 31-credit minimum in the major.)

Code	Title	Credits
URB STD	All U and U/G courses	
URBPLAN	All U and U/G courses	
AFRIC 125	Economics of the Black Community	3
AFRIC 300	Urban Violence	3
AFRIC 319	African American Urban History	3
AFRIC 341	Black Politics and City Government	3
AFRIC 416	Race and Social Justice in the United States	3
ANTHRO 431	Cities and Culture	3
ARCH 190	Living Learning Community: (only with topic "Field School")	1-3
ARCH 352	History & Theory III	3
ARCH 353	History & Theory IV	3
ARTHIST 323	Age of Apocalypse: Western European Art after the First Millennium	3
ARTHIST 326	Chivalry and Spirituality: French Gothic Art and Architecture	3
ARTHIST 356	American Architecture	3
ARTHIST 431	Renaissance Architecture in Italy	3
ARTHIST 462	Frank Lloyd Wright	3
BUS ADM 441	Diversity in Organizations	3

CRM JST 291	Current Issues in Criminal Justice:	1-3	SOC WRK 630	Families and Poverty	3
CRM JST 310	Race, Crime, and Criminal Justice	3	SOCIOL 224	Race and Ethnicity in the United States	3
ED POL 111	Introduction to Community Action and Change	3	SOCIOL 235	Social Change in the Global Economy	3
ED POL 113	The Milwaukee Community	3	SOCIOL 323	Perspectives on Latino Communities	3
ED POL 114	Community Issues, Policies, and Solutions	3	SOCIOL 324	Race and Ethnicity in Global Contexts	3
ED POL 203	Communities and Neighborhoods in America	3	SOCIOL 325	Social Change	3
ED POL 630	Race, Ethnicity, and Public Policy in Urban America	3	SOCIOL 330	Economy and Society	3
GEOG 114	Geography of Race in the United States	3	SOCIOL 350	Environmental Sociology	3
GEOG 140	Our Urban Environment: Introduction to Urban Geography	3	THEATRE 305	The Theatrical Experience: (With topic: Out and About in Milwaukee)	3
GEOG 215	Introduction to Geographic Information Science	3			
GEOG 441	Geography of Cities and Metropolitan Areas	3			
GEOG 443	Cities of the World: Comparative Urban Geography	3			
GEOG 464	Environmental Problems	3			
GEOG 520	Physical Geography of the City	3			
GEOG 525	Geographic Information Science	4			
GEOG 540	Globalization and the City	3			
GEOG 564	Urban Environmental Change and Social Justice	3			
GEOG 625	Intermediate Geographic Information Science	4			
HIST 192	First-Year Seminar: (Living in Ancient Rome or The Burbs: History of American Suburbs)	3			
HIST 200	Historical Roots of Contemporary Issues:	3			
HIST 303	A History of Greek Civilization: The Greek City-State	3			
HIST 307	A History of Rome: The Republic	3			
HIST 308	A History of Rome: The Empire	3			
HIST 404	Topics in American History: (Big City Life Viewed Through HBO's 'The Wire' or A Tale of Two Cities: Milwaukee and Los Angeles)	3			
HIST 436	Immigrant America Since 1880	3			
HIST 440	History of the American Working Classes	3			
HIST 446	African Americans Since the Civil War	3			
HIST 450	The History of Milwaukee	3			
HIST 460	The History of Poverty in America	3			
HIST 463	History of the American City	3			
POL SCI 213	Urban Government and Politics	3			
POL SCI 243	Public Administration	3			
POL SCI 450	Urban Political Problems	3			
POL SCI 452	Administrative Law	3			
PUB ADM 243	Public Administration	3			
PUB ADM 452	Administrative Law	3			
SOC WRK 306	Introduction to Social Welfare Policy	3			

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;
- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Urban Studies, MS

The Master of Science degree program in Urban Studies provides students with a broad understanding of urban society and trains them in research techniques appropriate to the study of metropolitan communities. The course of study stresses the understanding of social processes and the analysis of social and economic policies affecting cities.

The PhD degree program in Urban Studies is designed to prepare individuals to obtain employment in academic departments, as well as government institutions and social agencies, and to conduct sophisticated research in the field of urban studies. The course of study emphasizes history, research methodology, and social science theory.

Urban Studies Programs offers two interdisciplinary graduate programs of study that are housed in the College of Letters and Science and led by social science faculty members from the Departments of Africology, Architecture, Criminal Justice, Educational Policy and Community Studies, Geography, History, Political Science, Nonprofit and Public Administration, Public Health, Sociology, and Urban Planning.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following requirement to be considered for admission:

- Undergraduate major in one of the social sciences or experience in relevant occupational roles such as planning, community organization or social work.
- Two letters of recommendation from persons familiar with the applicant's academic ability. Recommendation forms may be obtained online from the Urban Studies Programs website (<https://uwm.edu/urban-studies/graduate/application-procedures/>).
- A letter of intent (reason statement) outlining the applicant's reasons for graduate study.
- Submission of Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>) scores is recommended but not required.

Applicants may be admitted with specific program-defined course deficiencies provided that the deficiencies amount to no more than two courses.

The student is expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the individual graduate program unit. No course credits earned in making up deficiencies may be counted as program credits required for the degree.

## Credits and Courses

The minimum degree requirement is 30 graduate credits. Students must earn at least 15 of their 30 credits in courses numbered 700 or above. All Urban Studies students are required to take a core curriculum of 15 credits.

Code	Title	Credits
<b>Core Curriculum</b>		
Select an approved quantitative analysis course		3
URB STD 921	Seminar: Research Methods in Urban Studies	3
Select three of the following:		9
URB STD 901	Urban Social Structure	
URB STD 913	Seminar in Urban Political Process	
URB STD 945	The Internal Structure of the City	
URB STD 971	Seminar on the History of American Urban Problems	
<b>Electives</b>		
Select 15 credits of approved electives		15
<b>Total Credits</b>		<b>30</b>

Students may opt to enroll in URB STD 990 and earn up to 3 credits toward the MS degree for their paper/thesis research and writing.

## Additional Requirements

### Major Professor as Advisor

The Director and Associate Director of the Urban Studies Program act as the initial advisors to all entering students. Therefore, upon admission to the program, students should meet with one of them to discuss their course of study. As specified by The Graduate School, the student must have a major professor to advise and supervise the student's studies.

Once the student has defined an area of interest within Urban Studies, an advisor with similar interests may be chosen from among the other members of the USP faculty.

## Paper or Thesis

A master's paper or thesis is required to receive the MS degree in Urban Studies. A master's paper may be developed from a seminar paper and should demonstrate conceptual ability and research competence in a sub-area of Urban Studies. It is expected that the master's paper will be prepared in a scholarly fashion conforming to the format characteristics of journal articles published in the chosen area of study.

A master's thesis is a more formal document of greater breadth and depth than a master's paper. Students should refer to Master's Thesis and Doctoral Dissertation Format Requirements (<https://uwm.edu/graduateschool/gradresources/thesis-and-dissertation-formatting/>) for information regarding preparation and review of the thesis.

Regardless of the option chosen, the student, in consultation with the faculty advisor, must assemble a committee of three faculty (two of whom cannot be from the same department and must be USP faculty) who will serve as the paper or thesis examination committee. The student must pass an oral examination based on the paper or thesis.

## Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Urban Studies, MS/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

## MLIS/MS Urban Studies

A Master of Science in Urban Studies/Master of Library and Information Science program to prepare students for positions as urban information specialists, 54 credits.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Credits and Courses

Students in the MS/MLIS program follow all of the requirements and standards as described in this section of the Bulletin with the following joint exceptions: 21 of the 24 credits, including the optional 3 credits for a master's thesis, required for the Urban Studies portion of the joint degree are taken within USP. All courses in related areas and any exceptions to the 21 credit rule must be reviewed by the Coordinator of Urban Studies. All courses selected are expected to be consistent with the objectives of the Urban Studies program.

### Urban Studies

The minimum degree requirement is 30 graduate credits. All Urban Studies students are required to take a core curriculum of 15 credits:

Code	Title	Credits
Select an approved quantitative analysis course		3
URB STD 921	Seminar: Research Methods in Urban Studies	3
Select three of the following:		9
URB STD 901	Urban Social Structure	
URB STD 913	Seminar in Urban Political Process	
URB STD 945	The Internal Structure of the City	
URB STD 971	Seminar on the History of American Urban Problems	
<b>Total Credits</b>		<b>15</b>

Students may opt to enroll in URB STD 990 and earn up to 3 credits toward the MS degree for their paper/thesis research and writing.

### Basic Required MLIS Courses

Code	Title	Credits
<b>Core Courses</b>		<b>12</b>
INFOST 501	Foundations of Library and Information Science	
INFOST 511	Organization of Information	
INFOST 571	Information Access and Retrieval	
INFOST 799	Research Methods in Information Studies	
<b>Other MLIS courses</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

### Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Urban Studies, PhD

The Master of Science degree program in Urban Studies provides students with a broad understanding of urban society and trains them in research techniques appropriate to the study of metropolitan

communities. The course of study stresses the understanding of social processes and the analysis of social and economic policies affecting cities.

The PhD degree program in Urban Studies is designed to prepare individuals to obtain employment in academic departments, as well as government institutions and social agencies, and to conduct sophisticated research in the field of urban studies. The course of study emphasizes history, research methodology, and social science theory.

Urban Studies Programs offers two interdisciplinary graduate programs of study that are housed in the College of Letters and Science and led by social science faculty members from the Departments of Africology, Architecture, Criminal Justice, Educational Policy and Community Studies, Geography, History, Political Science, Nonprofit and Public Administration, Public Health, Sociology, and Urban Planning.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/thesis-dissertation-formatting/>), hold a master's degree or the equivalent in a social science or a related field, and meet the criteria established by the Urban Studies Programs Faculty to be considered for admission:

1. Three letters of recommendation from persons familiar with the applicant's academic work. Recommendation forms may be obtained online from the link above.
2. A sample of the applicant's written work that demonstrates the applicant's ability to conduct independent social science research and/or the ability to critically analyze the work of others.
3. A letter of intent outlining the applicant's reasons for graduate study.
4. GRE scores.
5. A response to a question that elucidates the applicant's reasons for taking up the academic study of urban affairs and describes her/his intellectual ambitions in the field.

## Credits and Courses

Minimum degree requirement is 33 credits beyond the master's degree; these credits include core courses, a methodological specialization, a topical specialization, and a dissertation. At least 27 credits must be earned in UWM courses while in the doctoral program. Credits for the methodological specialization and the topical specialization combined must total at least 15 credits, with 6 credits from one area and 9 from the other. Students will decide, in consultation with their advisor, whether to focus more on methods or on topics. In consultation with their major professor and the program director, students must develop a plan of study, which should be filed in the USP office by the end of the second semester of enrollment.

Code	Title	Credits
<b>Core</b>		
URB STD 921	Seminar: Research Methods in Urban Studies	3
URB STD 981 or URB STD 983	Argument in Urban Studies Scholarship Contemporary Urban Social Structure and Change	3
Select one of the four listed below:		3
URB STD 901	Urban Social Structure	
URB STD 913	Seminar in Urban Political Process	
URB STD 945	The Internal Structure of the City	
URB STD 971	Seminar on the History of American Urban Problems	
Select one of the following: <sup>1</sup>		3-4
GEOG 747	Spatial Analysis	
HIST 595	The Quantitative Analysis of Historical Data	
SOCIOL 760	Advanced Statistical Methods in Sociology	
<b>Methodological Specialization</b>		
Select 6-9 credits		6-9
<b>Topical Specialization</b>		
Select 6-9 credits		6-9
<b>Thesis</b>		
Select 6 credits in doctoral thesis or dissertation courses		6

<sup>1</sup> Qualified students may be exempted from the quantitative competency/statistics course, but they must take an additional three credits of electives in methodological or topical tracks.

### Methodological Specialization (6-9 credits)

Students must declare one specialization from the following list and take two to three courses, for a total of 6 to 9 credits. Credits taken in the methodological specialization and the topical specialization combined must total at least 15 credits.

#### Statistical Analysis/Quantitative Research Design (2 course minimum)

A methodological specialization in statistical analysis requires SOCIOL 982/URB STD 982 and at least one additional statistical/quantitative course beyond the core competency. This course, selected in consultation with the student's advisor, should support research objectives and dissertation goals. Students are recommended to choose SOCIOL 760 above if they wish to take SOCIOL 982/URB STD 982. See the Graduate Program Director for a list of qualifying courses or online at: <http://www4.uwm.edu/lets/urbanstudies/graduate/phd/upload/CompletePHDStudentGuide.pdf>.

#### Geographical Information Systems (2 course minimum)

A methodological specialization in GIS requires the following two courses. Students who elect this specialization must take GEOG 547 to complete the statistical/quantitative core competency.

Code	Title	Credits
GEOG 525	Geographic Information Science	4
GEOG 625	Intermediate Geographic Information Science	4



Students who elect the GIS option earn 8 credits in the two required courses and must complete a minimum of 7 credits in topical courses or take one additional methods course with 6 credits in topical courses.

Optional additional coursework in GIS may be selected in consultation with the student's advisor, with consideration of research objectives and dissertation goals. See the Graduate Program Director for a list of suggested courses.

#### **Historical Methods (2 course minimum)**

In consultation with their advisor, students who elect this specialization must select two historical methods courses in that support research objectives and dissertation goals. See the Graduate Program Director for a list of qualifying courses.

#### **Qualitative Methods (2 course minimum)**

Students who elect the methodological specialization in qualitative methods select two courses in consultation with their advisor in support of research objectives and dissertation goals. See the Graduate Program Director for a list of qualifying courses.

#### **Program/Policy Evaluation (2 course minimum)**

A methodological specialization in program/policy evaluation requires POL SCI 769/PUB ADM 769 and at least one additional program/policy evaluation course. This course, selected in consultation with the student's advisor, should support research objectives and dissertation goals. See the Graduate Program Director for a list of qualifying courses.

#### **Mixed Methods (2 course minimum)**

Graduate students intending to pursue mixed research methods in their dissertation must file with the USP a plan of study created in consultation with their major professor and the program Director.

#### **Topical Specialization (6-9 credits)**

Students must declare a topical specialization, in consultation with their advisor, to gain competence in one of the faculty areas of specialization and must take two to three courses in that specialization, for a total of 6 to 9 credits. Students who opt for 6 credits (two courses) of methodological specialization must take at least 9 credits of topical specialization courses. Those who select 9 credits (three courses) of methodological specialization must complete 6 credits of topical specialization courses.

A variety of specializations and qualifying courses are published annually on the Urban Studies website (<http://uwm.edu/urban-studies/graduate/>). Students are required to take 6-9 credits at the 700 level or above in the specialization field, no more than 3 credits of which may be in independent study courses. With the approval of the major professor or program director, students may take up to 3 credits in U/G courses.

#### **Thesis (6 credits)**

A maximum of 6 credits in doctoral thesis or dissertation courses may be counted toward the 33 credits required for the degree.

## **Additional Requirements**

### **Residence**

The PhD student may meet the residence requirement by completing 8 or more graduate credits in each of two consecutive semesters, exclusive of summer sessions, or by completing at least 6 graduate credits in each of three consecutive semesters, exclusive of summer sessions.

### **Doctoral Preliminary Examination**

The student must pass a doctoral preliminary examination to qualify for formal admission to candidacy for the degree.

### **Dissertation**

The candidate, working under the supervision of the major professor and the candidate's dissertation committee, must write a dissertation which demonstrates ability to formulate a research topic and pursue original investigation.

### **Dissertation Defense**

The candidate must, as a final step toward the degree, pass an oral examination in defense of the dissertation.

### **Time Limit**

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

For additional information on the PhD, see the Graduate School Doctoral Requirements page (<http://uwm.edu/graduateschool/doctoral-requirements/>).

## **Urban Studies, Undergraduate Certificate**

The Undergraduate Certificate in Urban Studies draws from classes in sociology, geography, history, political science, economics, urban studies, and urban planning to explore issues related to cities, suburban communities and metropolitan regions such as transportation, education, housing, population shifts, crime, discrimination, and more.

Certificates are similar to minors in terms of credit requirements but draw on coursework from multiple fields of study rather than from a single department.

## **Eligibility**

The Urban Studies Undergraduate Certificate program is open to all students seeking a bachelor's degree from UWM, to students who previously have received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but who have a strong interest in this subject. To be admitted to the University as non-degree students, individuals must meet regular University admission requirements. Students currently involved in baccalaureate studies who complete the requirements of the program successfully will be awarded the certificate at the time of graduation. Post-baccalaureate and non-degree students will receive the certificate upon successful completion of the program requirements.

## **Requirements**

1. Completion of 18 credits in approved urban studies courses with a minimum GPA of 2.500.
2. Completion of URB STD 250 (Exploring the Urban Environment), URB STD 193 (First-Year Seminar), or URB STD 360 (Perspectives on the Urban Scene).
3. Of the 18 credits:
  - a. 6 must be in the humanities;
  - b. 6 in the social sciences; and
  - c. 9 must be at the 300 level or above taken in residence at UWM.

4. No more than 9 credits from any one department outside Urban Studies may count toward the certificate.
5. A maximum of 6 credits in independent study may be taken. In the senior year, a student may plan an independent study course to synthesize previous work in urban studies.
6. An internship in URB STD 289 or URB STD 489 is recommended highly.
7. While students may elect courses outside the College of Letters and Science to count toward the certificate, at least 12 credits must be completed in L&S courses, at least 6 of these at the 300 level or above.
8. Credits earned at other institutions in equivalent urban studies programs and accepted by UWM as transfer credits may count in partial fulfillment of the certificate requirements.

### Urban Studies Approved Courses

The following courses in the College of Letters and Science are approved to count toward the Urban Studies Certificate. Each semester, the Advisory Committee will review and approve variable content course sections for the Certificate. Contact the Urban Studies Program for the most current list of approved courses.

Code	Title	Credits
AFRIC 125	Economics of the Black Community	3
AFRIC 300	Urban Violence	3
AFRIC 319	African American Urban History	3
AFRIC 341	Black Politics and City Government	3
AFRIC 416	Race and Social Justice in the United States	3
ANTHRO 431	Cities and Culture	3
ARCH 190	Living Learning Community: (only with topic "Field School")	1-3
ARCH 352	History & Theory III	3
ARCH 353	History & Theory IV	3
ARTHIST 323	Age of Apocalypse: Western European Art after the First Millennium	3
ARTHIST 326	Chivalry and Spirituality: French Gothic Art and Architecture	3
ARTHIST 356	American Architecture	3
ARTHIST 431	Renaissance Architecture in Italy	3
ARTHIST 462	Frank Lloyd Wright	3
BUS ADM 441	Diversity in Organizations	3
CRM JST 291	Current Issues in Criminal Justice:	1-3
CRM JST 310	Race, Crime, and Criminal Justice	3
ED POL 111	Introduction to Community Action and Change	3
ED POL 113	The Milwaukee Community	3
ED POL 114	Community Issues, Policies, and Solutions	3
ED POL 203	Communities and Neighborhoods in America	3
ED POL 630	Race, Ethnicity, and Public Policy in Urban America	3
GEOG 114	Geography of Race in the United States	3
GEOG 140	Our Urban Environment: Introduction to Urban Geography	3
GEOG 215	Introduction to Geographic Information Science	3
GEOG 247	Quantitative Analysis in Geography <sup>1</sup>	3
GEOG 441	Geography of Cities and Metropolitan Areas	3
GEOG 443	Cities of the World: Comparative Urban Geography	3
GEOG 464	Environmental Problems	3
GEOG 520	Physical Geography of the City	3
GEOG 525	Geographic Information Science	4
GEOG 540	Globalization and the City	3
GEOG 564	Urban Environmental Change and Social Justice	3
GEOG 625	Intermediate Geographic Information Science	4
HIST 192	First-Year Seminar: (Living in Ancient Rome or The Burbs: History of American Suburbs)	3
HIST 200	Historical Roots of Contemporary Issues: (Making of the American Ghetto)	3
HIST 303	A History of Greek Civilization: The Greek City-State	3
HIST 307	A History of Rome: The Republic	3
HIST 308	A History of Rome: The Empire	3
HIST 404	Topics in American History: (Approved topics: Big City Life Viewed Through HBO's 'The Wire'; A Tale of Two Cities: Milwaukee and Los Angeles)	3
HIST 436	Immigrant America Since 1880	3
HIST 440	History of the American Working Classes	3
HIST 446	African Americans Since the Civil War	3
HIST 450	The History of Milwaukee	3
HIST 460	The History of Poverty in America	3
HIST 463	History of the American City	3
HIST 595	The Quantitative Analysis of Historical Data <sup>1</sup>	3
POL SCI 213	Urban Government and Politics	3
POL SCI 243	Public Administration	3
POL SCI 390	Political Data Analysis <sup>1</sup>	3
POL SCI 450	Urban Political Problems	3
POL SCI 452	Administrative Law	3
PUB ADM 243	Public Administration	3
PUB ADM 452	Administrative Law	3
SOC WRK 306	Introduction to Social Welfare Policy	3
SOC WRK 630	Families and Poverty	3
SOCIOL 224	Race and Ethnicity in the United States	3
SOCIOL 235	Social Change in the Global Economy	3
SOCIOL 261	Introduction to Statistical Thinking in Sociology <sup>1</sup>	3
SOCIOL 323	Perspectives on Latino Communities	3
SOCIOL 324	Race and Ethnicity in Global Contexts	3
SOCIOL 325	Social Change	3
SOCIOL 330	Economy and Society	3

SOCIOL 350	Environmental Sociology	3
SOCIOL 377	Urbanism and Urbanization	3
THEATRE 305	The Theatrical Experience: (With topic: Out and About in Milwaukee)	3
URBPLAN	All U and U/G courses	
URB STD	All U and U/G courses	

<sup>1</sup> If a student takes one of these quantitative courses, it is not recommended to take another from this group because of their similarity.

## Women's and Gender Studies

Women's and Gender Studies is an academic discipline that critically evaluates gender from an interdisciplinary perspective and challenges many traditional assumptions and theories about women that have excluded them from positions of power. It examines the practice and expression of gender in different societies and at different historical moments; it explores the various origins and articulations of gender differentiation; it traces the influence of gender expectations on individuals and it studies the interactions of gender and other differences

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Sharity Bassett	Assistant Professor	PhD	State University of New York at Buffalo	✓	
Carolyn Eichner	Associate Professor	PhD	University of California, Los Angeles	✓	
Xin Huang	Associate Professor	PhD	University of British Columbia	✓	
Gwynne Kennedy	Associate Professor Emerita	PhD	University of Pennsylvania		✓
Anna Mansson McGinty	Associate Professor	PhD	Lund University	✓	
Kristin Pitt	Associate Professor	PhD	University of Wisconsin-Madison	✓	
Merry Wiesner-Hanks	Distinguished Professor Emerita	PhD	University of Wisconsin-Madison		✓
Leah Wilson	Visiting Assistant Professor	PhD	Washington State University	✓	

## Women's and Gender Studies, BA

Women's and Gender Studies is a discipline that critically examines gender and women's issues from an interdisciplinary perspective and challenges many traditional assumptions and theories. It examines the practice and expression of gender in different societies and at different historical moments.

Regardless of your gender, Women's and Gender Studies is crucial and relevant for anyone interested in working in criminal justice, social work, the non-profit sector, the arts, politics, business, and more. Students learn to look at the world and history through different perspectives and think about how gender and our perceptions of it impact culture, society, and daily interactions. It is a traditional liberal arts discipline where the knowledge and skills developed in the program can be applied to all types of career paths. Work experiences during college through internships, part-time jobs, and volunteer positions often shape career paths after graduation.

Students in Women's and Gender Studies master critical thinking, problem analysis, and communication through both classroom studies and service learning opportunities.

in social, political, and cultural contexts. The feminist pedagogy used in Women's and Gender Studies courses empowers all students to become active learners and social change agents through discussion, written work, collaborative projects, and practical involvement beyond the classroom.

Women's and Gender Studies prepares students for careers in non-profit organizations, business, the creative arts, education, government and public policy, journalism, law, medicine, publishing, science, the social sciences, social work, and many other fields.

## Programs

- Women's and Gender Studies, BA (p. 1323)
- Women's and Gender Studies, Graduate Certificate (p. 1328)
- Women's and Gender Studies, MA (p. 1329)
- Women's and Gender Studies, MA/Library and Information Science, MLIS (p. 1331)
- Women's and Gender Studies, MA/Social Work, MSW (p. 1332)
- Women's and Gender Studies, Minor (p. 1333)

## Course of Study – Bachelor of Arts Degree

Complete 120 credits including 90 credits in the College of Letters & Science and with 36 of the 90 credits in L&S upper-level (numbered above 300) courses. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major. Students are also required to complete University-wide General Education Requirements and the specific L&S requirements listed below.

To complete a major, students must satisfy all the requirements of the major as stated in this catalog. Students who declare their majors within five years of entering the UW System as a degree candidate may satisfy the requirements outlined in any catalog issued since the time they entered. Credits used to satisfy the major also may be used to satisfy other degree requirements.

## University General Education Requirements (GER)

Code	Title	Credits
<b>Oral and Written Communication</b>		
<i>Part A</i>		

Achieve a grade of C or better in the following course:

ENGLISH 102 College Writing and Research (or equivalent)

**Part B**

Course designated as OWC-B; may be completed through a major-specific course requirement

**Quantitative Literacy****Part A**

Earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course, or achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department)

MATH 102	Mathematical Literacy for College Students II
MATH 103	Contemporary Applications of Mathematics
MATH 105	Introduction to College Algebra
MATH 108	Algebraic Literacy II
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>
or PHILOS 111	Introduction to Logic - Critical Reasoning
MATH 116	College Algebra
Or equivalent course	

**Part B**

Course designated as QL-B; may be completed through a major-specific course requirement

**Arts**

Select 3 credits 3

**Humanities**

Select 6 credits 6

**Social Sciences**

Select 6 credits 6

**Natural Sciences**

Select 6 credits (at least two courses including one lab) 6

**UWM Foreign Language Requirement**

Complete Foreign Language Requirement through:

Two years (high school) of a single foreign language

Two semesters (college) of a single foreign language

Or equivalent

**UWM Cultural Diversity Requirement**

One course from the Arts, Humanities, or Social Sciences must also satisfy UWM's Cultural Diversity requirement

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**College of Letters & Science Requirements****I. English Composition Requirement**

Students must satisfy the English Composition Requirement with one of the following options:

- 1) Completing ENGLISH 102 with a grade of C or higher; or
- 2) by placing beyond ENGLISH 102 on the English Placement Test (EPT) (or other assessment as determined by the English Department); or

3) transferring a course of at least 2.5 equivalent credits from another institution that is equivalent to English 102, or a UWM higher-level expository writing course, with a grade of C or higher.

**Note:** This requirement is the same as the University General Education Requirement for Oral and Written Communication Part A. The College of Letters & Science does not have a specific requirement for a writing course beyond English 102, but students must complete the university-wide requirement for Oral and Written Communication Part B listed above.

**II. Mathematics and Formal Reasoning**

To satisfy the Mathematics and Formal Reasoning Requirement, students must satisfy the following two requirements:

1. Achieve a placement code of at least 30 on the mathematics placement test (or other appropriate test, as determined by the Mathematical Sciences Department) or earn at least 3 credits with a grade of C or higher in one of the following courses or an equivalent course:

Code	Title	Credits
MATH 102	Mathematical Literacy for College Students II	3
MATH 103	Contemporary Applications of Mathematics	3
MATH 105	Introduction to College Algebra	3
MATH 108	Algebraic Literacy II	3
MATH 111	Introduction to Logic - Critical Reasoning <sup>1</sup>	3
or PHILOS 111	Introduction to Logic - Critical Reasoning	
MATH 116	College Algebra	3
MATH 175	Mathematical Explorations for Elementary Teachers I	3

<sup>1</sup> Math 111 and Philosophy 111 are jointly offered and count as repeats of one another. Students cannot receive credit for both courses.

**Note:** This requirement is the same as the University General Education Requirement for Quantitative Literacy Part A, listed above.

2. Complete one course (at least 3 credits) at the 200 level or above chosen from courses in Mathematics, PHILOS 211, or Letters and Science statistics courses:

Code	Title	Credits
Complete one of the following:		
3 or more credits in any 200-level or above Math course		
AFRIC 220	Introduction to Statistics in African and African Diaspora Studies	
ANTHRO 568	Introduction to Anthropological Statistics	
BIO SCI 465	Biostatistics	
ECON 210	Economic Statistics	
GEOG 247	Quantitative Analysis in Geography	
HIST 595	The Quantitative Analysis of Historical Data	
MTHSTAT 215	Elementary Statistical Analysis	
PHILOS 211	Elementary Logic	
POL SCI 390	Political Data Analysis	

POL SCI 392	Survey Research
PSYCH 210	Psychological Statistics
SOCIOL 261	Introduction to Statistical Thinking in Sociology

**Note:** This requirement is NOT the same as the University General Education Requirement for Quantitative Literacy Part B. To complete the BA, students must take one of the L&S approved courses. **Not all of the courses listed here will satisfy the QL-B requirement.**

### III. Foreign Language Requirement

Placement testing may be used to satisfy all or part of this requirement. Language courses (including American Sign Language) other than English taken in high school may be used to satisfy all or part of this requirement. One year of high school language equates to one semester of college work.

Completion of the L&S Language Requirement also satisfies the university-wide Foreign Language GER, but not vice versa.

Code	Title	Credits
Completed in one of the following ways:		0-18
Successful completion of the 4th semester of college work or equivalent in one language other than English (including American Sign Language)		
Successful completion of the 3rd semester of college work or equivalent in one language other than English (including American Sign Language) PLUS the 2nd semester of college work or equivalent in another language other than English (including American Sign Language)		

### IV. International Requirement

See Approved Courses for the L&S International Requirement (<https://catalog.uwm.edu/letters-science/approved-courses-international-requirement/>) for course options.

Code	Title	Credits
Completed in one of the following ways:		9
Complete 3 courses (min. 9 cr) in a single foreign language (not including literature-in-translation or American Sign Language) at the 3rd semester level and above		
Complete 3 non-language courses (min. 9 credits) with an international content chosen from at least 2 curricular areas.		
Complete 9 credits in combination of the two options above.		

### V. Breadth Requirement

Along with completing the University General Education Requirements of 3 credits in the Arts (A); 6 credits in the Humanities (HU), Social Sciences (SS), and Natural Sciences (NS/NS+); and a course with the Cultural Diversity (CD/+) designation, L&S students must complete the Breadth requirement.

Code	Title	Credits
<b>Arts</b>		
Select 3 credits		3
<b>Humanities</b>		
Complete 12 credits of L&S courses with Humanities Breadth designation; no more than 6 credits from a single subject area. *		12
<b>Social Sciences</b>		

Complete 12 credits of L&S Courses with Social Science Breadth designation; no more than 6 credits from a single curricular area. \*

#### Natural Sciences

Complete 12 credits of L&S Courses with Natural Sciences Breadth designation, including at least one laboratory or field course; no more than 6 credits from a single curricular area. \*

#### Cultural Diversity

Complete 3 credits in a course with Cultural Diversity (CD) designation. \*\*

\* Students should check their course selections carefully with the list of approved L&S Breadth Courses (<https://catalog.uwm.edu/letters-science/breadth-requirement-course-list/>). Students are advised to select at least 6 credits worth of courses in each of the Humanities, Social Science, and Natural Sciences areas that can satisfy both the campus-wide General Education Requirements and the L&S Breadth requirement.

\*\* Students are advised to select a course that satisfies the Cultural Diversity requirement as well as a Humanities or Social Science breadth/GER requirement.

### VI. The Major

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the major attempted at UWM. In addition, students must attain a 2.0 GPA on all major credits attempted, including any transfer work. Individual departments or programs may require higher GPAs for graduation. Some departmental majors require courses from other departments. Contact your major department for information on whether those credits will count as part of the major GPA. The College requires that students must complete in residence at UWM at least 15 credits in upper-division (numbered 300 or above) courses in their major.

#### Research Requirement

Within their majors, students must complete a research experience approved by the L&S faculty. A list of courses satisfying the research requirement in each major can be found here (<https://catalog.uwm.edu/letters-science/approved-courses-research-requirement/>).

#### VII. The Minor

The College of Letters and Science requires that students attain at least a 2.0 GPA in all credits in the minor attempted at UWM. In addition, students must attain a 2.0 GPA on all minor credits attempted, including any transfer work.

## Women's and Gender Studies Major Requirements

The Women's and Gender Studies major requires 36 credits drawn from Women's and Gender Studies core and cross-listed classes. At least 15 credits in the major must be taken in upper-division (numbered 300 or above) courses in residence at UWM. Completion of WGS 411 and either WGS 500 or WGS 501 satisfies the L&S research requirement. Students must maintain a GPA of at least 2.0 in UWM major courses attempted. In addition, the College requires that students attain a 2.0 GPA in all major courses attempted, including any transfer work. Majors should consult regularly with their advisor in Women's and Gender Studies about their course of study.

The major requires completion of the following courses offered through Women's and Gender Studies:

Code	Title	Credits
<b>Required</b>		
Select one of these two: <sup>1</sup>		3
WGS 200	Introduction to Women's and Gender Studies: A Social Science Perspective	
WGS 201	Introduction to Women's and Gender Studies: A Humanities Perspective	
WGS 211	Foundations of Women's and Gender Studies Scholarship	3
WGS 301	Queer Theory	3
WGS 401	Global Feminisms	3
WGS 410	Feminist Theory	3
WGS 411	Women's and Gender Studies Research Methods:	3
Select one of the following:		3
WGS 489	Internship in Women's and Gender Studies	
WGS 699	Independent Reading (taken in the senior year)	
Any upper-level (numbered 300 and above) WGS or Women's and Gender Studies-related course approved by the Women's and Gender Studies Chair or Assistant Chair (Undergraduate Advisor)		
Select one of the following:		3
WGS 500	Advanced Social Science Seminar in Women's and Gender Studies:	
WGS 501	Advanced Humanities Seminar in Women's and Gender Studies:	
<b>Electives</b>		
Select 12 credits (see below)		12
<b>Total Credits</b>		<b>36</b>

<sup>1</sup> Students may not receive credit for both WGS 200 and WGS 201. Only one of these courses can be taken for credit.

## Electives

Students must take 12 credits of approved elective courses to reach a total of 36 credits. Approved electives include WGS courses and courses offered by other programs and departments; see the list of approved courses below.

Numerous courses in a wide variety of disciplines have been approved as electives for the WGS major. For information about whether a special topics course in another program might be approved as an elective for WGS, please contact Women's and Gender Studies.

Code	Title	Credits
WGS 150	Multicultural America	3
WGS 192	First-Year Seminar:	3
WGS 199	Independent Study	1-3
WGS 297	Study Abroad:	1-12
WGS 301	Queer Theory	3
WGS 302	Gendered Bodies:	3
WGS 303	Feminist Activism and Movements:	3
WGS 380	Honors Seminar in the Social Sciences:	3
WGS 381	Honors Seminar in the Humanities:	3

WGS 497	Study Abroad:	1-12
AFRIC 250	Black Women and White Women in the Contemporary United States	3
AFRIC 344	Global Black Social Movements	3
AFRIC 350	The Black Family	3
AFRIC 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
AFRIC 352	Extended Families in Black Societies	3
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	3
AFRIC 417	Race, Class and Gender in Southern Africa	3
AFRIC 418	Race, Class, and Gender in Latin America and the Caribbean	3
ANTHRO 250	Women's Roles in Cross-Cultural Perspective	3
BIO SCI 206	Biology of Women	3
BUS ADM 441	Diversity in Organizations	3
COMMUN 401	Communication in Marital and Family Relationships	3
COMMUN 402	Gender and Communication	3
COMMUN 474	Rhetoric of Women's Rights in the US	3
CRM JST 385	Women and Criminal Justice	3
CRM JST 416	Intimate Partner Violence	3
ECON 248	Economics of Discrimination	3
ED POL 624	Gender and Education	3
ENGLISH 243	Introduction to Literature by Women:	3
ENGLISH 295	Women and Film <sup>1</sup>	3
ENGLISH 395	Feminist Media Criticism and Theory: <sup>2</sup>	3
ENGLISH 465	Women Writers:	3
ENGLISH 628	Seminar in Literature by Women:	3
ENGLISH 629	Seminar in Literature and Sexuality:	3
ETHNIC 255	Migration and Gender: Starbucks, Sex Trafficking, and Nannies	3
ETHNIC 275	Queer Migrations	3
ETHNIC 325	Gender, Race, and Ethnicity in Milwaukee:	3
FILMSTD 295	Women and Film <sup>1</sup>	3
FILMSTD 395	Feminist Media Criticism and Theory: <sup>2</sup>	3
FILMSTD 669	Screening Sexuality:	3
GEOG 410	Gendered Geographies	3
HIST 141	Global History of the Family, Gender, and Sexuality	3
HIST 241	Women and Gender in Europe: 1350 to 1750	3
HIST 242	Women and Gender in Europe: 1750 to the Present	3
HIST 243	History of Women in American Society	3
HIST 271	The 1960s in the United States: A Cultural History	3
HIST 355	Modern and Contemporary France	3
HIST 373	Topics in Gender and History:	3
HIST 468	The American Feminist Movement	3
JAMS 111	Gender and the Media	3

JEWISH 332	Women in the Bible	3
LGBT 200	Introduction to Lesbian, Gay, Bisexual, and Transgender Studies	3
LGBT 275	Queer Migrations	3
LGBT 290	Topics in LGBT Studies:	3
LGBT 599	Selected Topics in LGBT Studies:	3
LINGUIS 212	Language and Gender	3
MUSIC 449	Women in Music:	3
NURS 204	Global Maternal and Child Health: From Evidence to Action	3
NURS 327	Nursing Science III: Health Concepts- Women & Children	4
NURS 620	Global Food Security and Systems	3
PHILOS 235	Philosophical Aspects of Feminism	3
POL SCI 110	Sex and Power	3
POL SCI 368	Gender and Politics in Developing Nations	3
POL SCI 425	Women in Politics	3
POL SCI 464	Sex, Gender, and the Law	3
PSYCH 319	LGBTIQ Psychology	3
PSYCH 320	Psychology of Gender	3
SOCIOL 250	Sex and Gender	3
SOCIOL 255	Sociology of Sexuality	3
SOCIOL 260	Blood, Sex, Money, Power: Families and Intimate Relationships	3
SOCIOL 442	The Work-Family Intersection	3
SOCIOL 444	Sociology of the Body	3
SOC WRK 630	Families and Poverty	3

<sup>1</sup> ENGLISH 295 and FILMSTD 295 are jointly offered. In other words, they are the same course offered under different subjects. Only one can be taken for credit.

<sup>2</sup> ENGLISH 395 and FILMSTD 395 are jointly offered. In other words, they are the same course offered under different subjects. Only one can be taken for credit.

## Letters & Science Advising

During your time at UWM, you may have multiple members of your success team, including advisors, peer mentors, and success coaches. Letters and Science students typically work with at least two different types of advisors as they pursue their degrees: professional College Advisors and Faculty Advisors. L&S College Advisors advise across your entire degree program while departmental Faculty Advisors focus on the major.

**College Advisors** are located in Holton Hall and serve as your primary advisor. They are your point person for your questions about navigating college and completing your degree. College Advisors will:

- assist you in defining your academic and life goals;
- help you create an educational plan that is consistent with those goals;
- assist you in understanding curriculum, major and degree requirements for graduation, as well as university policies and procedures;

- provide you with information about campus and community resources and refer you to those resources as appropriate; and
- monitor your progress toward graduation and completion of requirements.

**Faculty Advisors** mentor students in the major and assist them in maximizing their development in the program. You will begin working with a Faculty Advisor when you declare your major. Faculty Advisors are an important partner and will:

- help you understand major requirements and course offerings in the department;
- explain opportunities for internships and undergraduate research and guide you in obtaining those experiences; and
- serve as an excellent resource as you consider potential graduate programs and career paths in your field.

Students are encouraged to meet with both their College Advisor and Faculty Advisor at least once each semester. Appointments are available in-person, by phone or by video.

Currently enrolled students should use the Navigate360 website (<https://uwm.navigate.eab.com/>) to make an appointment with your assigned advisor or call (414) 229-4654 if you do not currently have an assigned Letters & Science advisor. Prospective students who haven't enrolled in classes yet should call (414) 229-7711 or email [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

## Honors in the Major

Women's and Gender Studies majors who have maintained at least a 3.000 GPA overall, 3.500 GPA in all courses attempted for the major, and a 3.500 GPA in advanced-level (numbered 300 and above) courses that count toward the major are eligible to graduate with honors in the major. Students who believe they may qualify to graduate with honors in the major should apply to the Assistant Chair of Women's and Gender Studies.

## College of Letters and Science Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Women's and Gender Studies, Graduate Certificate

The Graduate Certificate in Women's and Gender Studies is designed for students enrolled in a graduate program in any field who wish to complement their advanced training and scholarly work with an additional specialization in Women's and Gender Studies.

Research and study in Women's and Gender Studies helps students:

- identify and assess gender-based assumptions and biases and to recognize their social, cultural and individual consequences;
- analyze and integrate perspectives and bodies of knowledge across disciplines, and develop your critical thinking skills in ways that will complement and enhance your training in any other field;
- prepare for careers in non-profit organizations, businesses, the creative arts, education, government and public policy, journalism, law, social work, and more;
- become empowered to participate in public debate and act for social change.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Eligibility and Admission

To pursue this certificate, students must be enrolled in a graduate degree program or already hold a graduate degree. Acceptance to this graduate certificate also requires a minimum 2.75 GPA from the undergraduate degree as well as a letter of intent explaining the applicant's reasons for graduate study.

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The Graduate Certificate in Women's and Gender Studies requires completion of 15 credits in approved courses with an overall GPA of 3.0. The following are required:

Code	Title	Credits
<b>Required</b>		
WGS 700	Feminist Issues and Scholarship	3
WGS 701	Feminisms in Global Context	3
WGS 710	Advanced Feminist Theory	3
<b>Electives</b>		
Select 6 credits from a combination of WGS courses and approved cross-listed Graduate (G) or Undergraduate/Graduate (U/G) courses in other programs and departments		6
<b>Total Credits</b>		<b>15</b>

No more than 6 credits in U/G courses can apply toward the certificate, and a maximum of 3 credits in independent study may count toward the 15 credits required for the certificate. Thesis and research credits may not be counted toward the certificate.

### Approved Electives outside of WGS

Code	Title	Credits
AD LDSP 779	Current Topics in Administrative Leadership: (Women Teaching and Leadership in Educational Organizations)	1-3
AD LDSP 795	Women and Leadership in Education	3
AFRIC 700	Foundations and Theories in African & African Diaspora Studies	3
AFRIC 880	Seminar on Issues in African & African Diaspora Studies: (Africana Womanism)	3
COMMUN 802	Marital and Family Communication	3
COMMUN 860	Seminar: Issues in Communication: (Topic: Rhetoric of Marriage and Family)	3
COMMUN 874	Rhetoric of Women's Rights in the US	3
ENGLISH 771	Literature of the English Renaissance: (Early Modern Women Writers)	3
ENGLISH 776	Women Writers: (Gender Anger and Revenge; Early Women Writers; Greatest Hits)	3
ENGLISH 780	African American Literature: (Sex and Sexuality)	3
ENGLISH 784	Topics in Transnational Literature (Transnational Fiction: Unsettling and Gender)	3
ENGLISH 812	Seminar in Theories of Composition and Rhetoric: (Feminist Rhetorics)	3
ENGLISH 820	Seminar in Advanced Topics in Literary Criticism and Research: (Feminist Theory and Criticism)	1-3
ENGLISH 843	Seminar in Renaissance Prose and Poetry: (Women Writers)	3
ENGLISH 872	Seminar in Women Writers:	3
ENGLISH 875	Seminar in Modern Literature: (Gendered Narratives; Virginia Woolf)	3
ENGLISH 876	Seminar in Media Studies: (Family Photography; Queer Cinema and Television)	3
ENGLISH 878	Seminar in Feminist Critical Theory:	3



ENGLISH 882	Seminar in Nineteenth-Century American Literature: (American Women Writers and the Sentimental)	3
ENGLISH 883	Seminar in Twentieth-Century American Literature: (Multiculturalism)	3
ENGLISH 885	Seminar in Critical Theory: (Psychoanalysis, Gender, Sexuality; Queer Theory; Spivac)	3
FILMSTD 690	Seminar in Contemporary Cinema and Media: (Women Directors)	3
FRENCH 733	Seminar in French Literature: (French Women Writers)	3
HIST 840	Colloquium on Global History: (Gender and Imperialism 1830-1940)	3
HIST 841	Colloquium on Modern Studies: (Queer Theory)	3
HIST 900	Seminar on U.S. History: (History of Women in America; Women and Reform 19th and 20th Centuries)	3
HIST 940	Seminar on Global History: (Gender, Religion and Colonization 1450-1850; Slavery and Gender in Early America and the Caribbean)	3
HIST 950	Seminar on European History: (Christianity and Sexuality from New Testament Times to the Present)	3
IND REL 800	Current Issues in Industrial Relations: (Family Friendly Work Practices; Sexual Harassment in the Workplace)	1-3
JAMS 840	Topics in Media Law and Ethics: (Pornography and Hate Speech)	3
JAMS 845	Topics in Gender, Sexuality, and Media: (Gender and Popular Culture)	3
JAMS 860	Seminar in Media Studies: (Pornography, Privacy and Hate Speech)	3
NURS 763	Issues in Women's Health and Development	3
NURS 779	Special Topics Seminar: (Current Issues in Women Health Development: Health of Older Women)	1-5
PH 740	Special Topics in Public Health:	1-3
PSYCH 711	Current Topics in Psychology: (Feminist Perspectives in Psychoanalysis: Etiology and Treatment of Eating Disorders)	1-4
SOCIOL 927	Seminar in Sociology of Contemporary Institutions: (A Sociology of Welfare; Issues in Family and Gender; Sociology of Gender; The Family and the State)	3
SOC WRK 771	Development of the Family Over the Life Span	3
SOC WRK 791	Current Topics in Social Work: (Women, Work and Family; Family Violence: a Cycle to be Broken)	1-3
SOC WRK 820	Seminar in Social Work Practice: (Intimate Partner Violence)	3

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

- Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
- Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
- A course may count toward no more than one certificate and one degree.
- Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Women's and Gender Studies, MA

The MA in Women's and Gender Studies is designed for students who intend to pursue additional academic degrees and students who seek graduate credentials to further their career goals. The degree combines advanced Women's and Gender Studies courses in feminist theory, research methods, global feminisms, and selected topics with graduate-level courses in many disciplines. Over forty faculty members at UWM are Women's and Gender Studies affiliates and offer graduate courses that are cross-listed with Women's and Gender Studies.

Students completing an MA in Women's and Gender Studies will:

- Gain an understanding of Women's and Gender Studies as an interdisciplinary field of study and research.
- Demonstrate an advanced understanding of feminist theory and research methods.

- Develop critical thinking skills that will enable them to analyze competing perspectives and integrate various bodies of knowledge across academic boundaries, paying particular attention to gender-based assumptions and their consequences on individuals, social and cultural groups, and institutions.
- Demonstrate an awareness of women's diverse experiences based on factors such as age, race, sexuality, gender identity, class, religion, and ability status.
- Acquire the background necessary for entry into PhD programs in Women's and Gender Studies. The MA also prepares students for further graduate studies in many fields of the humanities, social sciences or professions, as well as career fields that require an advanced degree.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

The Women's and Gender Studies MA Program accepts fall admission only. Applications received by January 15 will be given full consideration.

### Admission

In addition to satisfying Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) for admission, applicants must apply online via the UWM Panthera Graduate Admission Application. Additionally, the following materials must be submitted to be considered for admission:

- Official or unofficial transcripts for all work done at higher education/post-secondary institutions
- Three letters of recommendation from persons familiar with the applicant's academic or professional work
- A sample of the applicant's written work that demonstrates the applicant's critical thinking, research, and writing skills
- A letter of intent explaining the applicant's reasons for graduate study (the Graduate School Reasons Statement may be used)

GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores are not required for application to the WGS MA Program. However, UWM may require GRE scores for fellowships or awards.

Applicants may be admitted with course deficiencies provided that the deficiencies amount to no more than two courses. Students are expected to satisfy deficiency requirements within three enrolled semesters. The deficiencies are monitored by the Graduate School and the program. No course credits earned in making up deficiencies may be counted toward the degree.

### Financial Aid

Women's and Gender Studies offers a graduate teaching assistantship. Women's and Gender Studies also has two need-based scholarships for which graduate students are eligible. Scholarship decisions are made each spring. Contact the program for applications.

The UWM Graduate School offers the AOP (Advanced Opportunity Program) and Distinguished Graduate Student Fellowships (<http://uwm.edu/graduateschool/types-of-funding/#fellowships>).

## Advising

Graduate advising is the responsibility of the Women's and Gender Studies Director of Graduate Studies (DGS), who provides initial advising for students until they choose an advisor.

## Credits and Courses

To earn an MA in Women's and Gender Studies, students must complete 30 credits. Fifteen credits are in required Women's and Gender Studies courses (15 with thesis option):

Code	Title	Credits
<b>Required</b>		
WGS 700	Feminist Issues and Scholarship	3
WGS 701	Feminisms in Global Context	3
WGS 710	Advanced Feminist Theory	3
WGS 711	Feminist Epistemologies and Research Practices	3
WGS 740	Advanced Queer Theory	3
Select one G or U/G WGS course <sup>1</sup>		3
<b>Electives</b>		
Select 12 credits in graduate-level courses in consultation with the WGS Director of Graduate Studies.		12
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Excluding WGS 497, WGS 700, WGS 990, and WGS 999.

No more than six credits may be in undergraduate/graduate (U/G) courses, and no more than six transfer credits may apply. Students may not count more than three credits of WGS 999 toward the degree.

## Additional Requirements

### Thesis, Paper or Project, or Examination

Students complete the degree with a written thesis, paper or project, or comprehensive examination. All options include an oral defense.

The thesis is an academic research paper that demonstrates the student's ability to carry out an independent investigation, to analyze data (qualitative and/or quantitative), and to present the results in a clear, systematic form. The thesis includes a review of relevant scholarship and makes a contribution to the field.

The master's paper is a more limited, shorter scholarly product that often takes the form of a scholarly essay of publishable quality. The master's paper demonstrates the student's ability to formulate an argument, analyze data, present results in a clear, systematic form, and show familiarity with relevant scholarship.

The master's project may be a creative or artistic project that is research-based or a research-based practical project.

The examination is a comprehensive written examination that addresses central texts and issues in the field of Women's and Gender Studies.

### Time Limit

Students must complete the MA within five years of enrollment, in compliance with Graduate School time-to-degree requirements.

# Women's and Gender Studies, MA/ Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

## MLIS/MA Women's and Gender Studies

The coordinated program is designed to provide students with theoretical and practical exposure to evolving information retrieval and organization, and the field of feminist research and scholarship.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

The Women's and Gender MA Program accepts fall admissions only. Applications received by January 15 will be given full consideration.

### Admission

Students are admitted to both graduate programs separately, and admission requirements are consistent with those specified by the UWM Graduate School, the Women's and Gender Studies MA of the College of Letters and Science, and the Library and Information Science MLIS of the School of Information Studies.

## Credit and Courses

The MA in Women's and Gender Studies (WGS) normally has a minimum requirement of 30 credits from Women's and Gender Studies courses. For the coordinated MA WGS/MLIS degree program, however, students can substitute 6 credits in Information Studies for 6 credits of WGS courses. This program, therefore, requires a total of 54 credits. Students must complete the 30 credits required for the MLIS component and the 24 credits in WGS courses as specified below.

## Women's and Gender Studies

Code	Title	Credits
<b>Required</b>		
WGS 700	Feminist Issues and Scholarship	3
WGS 701	Feminisms in Global Context	3
WGS 710	Advanced Feminist Theory	3
WGS 711	Feminist Epistemologies and Research Practices	3
WGS 740	Advanced Queer Theory	3
Select one WGS G or U/G course <sup>1</sup>		3
<b>Electives</b>		
Select 6 elective credits in WGS or WGS cross-listed courses (not SOIS), in consultation with the WGS Director of Graduate Studies. Of these electives, 3 credits may be thesis credits (WGS 990).		6
<b>Total Credits</b>		<b>24</b>

<sup>1</sup> Excluding WGS 497, WGS 700, WGS 990, WGS 999.

Total WGS credits: 24 (maximum of 6 U/G cr; and maximum 3 cr of WGS 999)

## Library and Information Science

Code	Title	Credits
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies	3
<b>Electives</b>		
Select 18 credits in consultation with a SOIS faculty advisor.		18
<b>Total Credits</b>		<b>30</b>

Total MLIS Credits: 30 (min of 33 with SOIS thesis option)

**Total Credits for Coordinated Program: 54 (57 with SOIS thesis)**

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

## Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Additional Requirements

### Time Limit

Students in the coordinated MA/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

# Women's and Gender Studies, MA/ Social Work, MSW

The College of Letters and Science and the Helen Bader School of Social Welfare located in the College of Community Engagement & Professions collaboratively offer a program designed to provide students with theoretical and practical exposure to evolving professional practice and the field of feminist research and scholarship. Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

## Requirements

### Admission Requirements

#### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

The Women's and Gender Studies MA Program accepts fall admissions only. Applications received by January 15 will be given full consideration.

#### Admission

Students are admitted to both graduate programs separately, and admission requirements (<http://uwm.edu/graduateschool/admission/>) are consistent with those specified by the UWM Graduate School, the MA in Women's and Gender Studies (p. 1329) program in the College of Letters and Science, and the MSW in Social Work (<http://uwm.edu/graduateschool/social-work/>) of the Helen Bader School of Social Welfare.

### Credit and Courses

The MA in Women's and Gender Studies (WGS) normally has a minimum requirement of 30 credits from Women's and Gender Studies courses. For the coordinated WGS MA/MSW degree program, however, students can substitute 6 credits in Social Work courses for 6 credits of WGS courses. Similarly, the Social Work master's program will accept 6 credits of WGS course work to satisfy the 6 required elective credits for the MSW degree. Because the MSW degree has a distinction in the number of credits required depending on bachelor's degree type, the total number of credits required to complete the Coordinated WGS/MSW program will range from 52 credits (24 from WGS and 28 from MSW when holding a bachelor's in social work) to 76 credits (24 from WGS and 52 from MSW when a bachelor's degree is from another discipline and needing to complete the Foundation Curriculum in addition to the Advanced Curriculum).

### Women's and Gender Studies

Code	Title	Credits
<b>Required</b>		
WGS 700	Feminist Issues and Scholarship	3
WGS 701	Feminisms in Global Context	3
WGS 710	Advanced Feminist Theory	3
WGS 711	Feminist Epistemologies and Research Practices	3
WGS 740	Advanced Queer Theory	3
Select one G or U/G WGS course <sup>1</sup>		3

#### Electives

Select 6 elective credits in WGS or WGS cross-listed courses (not SOC WRK), in consultation with the WGS Director of Graduate Studies. Of these electives, 3 credits may be thesis credits (WGS 990).

**Total Credits** **24**

<sup>1</sup> Excluding WGS 497, WGS 700, WGS 990, and WGS 999.

Total WGS credits: 24 (maximum of 6 U/G cr; and maximum 3 cr of WGS 999)

### Master of Social Work

Code	Title	Credits
<b>Social Work Foundation Curriculum (required before the Advanced Curriculum for students without a bachelor's degree in social work)</b>		
SOC WRK 604	Social Systems and Social Work Practice (U/G)	3
SOC WRK 662	Methods of Social Welfare Research (U/G)	3
SOC WRK 665	Cultural Diversity and Social Work (U/G)	3
SOC WRK 705	Individual Behavior and Social Welfare (G)	3
SOC WRK 708	Social Work Methods I: Individuals and Families (G)	3
SOC WRK 709	Social Work Methods II: Groups, Organizations and Communities (G)	3
SOC WRK 721	Field Instruction I (G)	3
SOC WRK 750	Social Welfare Policy Development and Implementation (G)	3

#### Social Work Advanced Practice Curriculum

##### Required Core Courses

SOC WRK 711	Direct Social Work Practice I (G)	3
SOC WRK 712	Advanced Practice and Leadership in Organizations and Communities	3
SOC WRK 795	Evaluation of Social Work Practice and Programs	3
SOC WRK 851	Social Issue and Policy Analysis: (Subtitled) (G)	3

##### Required Field Placement Courses

SOC WRK 722	Field Instruction II	3
SOC WRK 821	Field Instruction III	3-4
SOC WRK 822	Field Instruction IV	3-4

#### Electives

Select 6 credits from Women's and Gender Studies courses in consultation with faculty advisor

Remaining elective credits for MSW degree selected from Social Work graduate courses in consultation with MSW advisor

**Total Credits** **52-54**

**Minimum Total Credits for Coordinated Program: 52 (for those admitted to the MSW Social Work Advanced Curriculum - Advanced Standing).**

**For students without a social work baccalaureate or otherwise needing the Foundation Coursework, the total credits will sum to 76.**

## Additional Requirements

### Time Limit

Students in the coordinated MA/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Women's and Gender Studies, Minor

Women's and Gender Studies is a discipline that critically examines gender and women's issues from an interdisciplinary perspective and challenges many traditional assumptions and theories. It examines the practice and expression of gender in different societies and at different historical moments.

Regardless of your gender, Women's and Gender Studies is crucial and relevant for anyone interested in working in criminal justice, social work, the non-profit sector, the arts, politics, business, and more. Students learn to look at the world and history through different perspectives and think about how gender and our perceptions of it impact culture, society, and daily interactions. It is a traditional liberal arts discipline where the knowledge and skills developed in the program can be applied to all types of career paths. Work experiences during college through internships, part-time jobs, and volunteer positions often shape career paths after graduation.

In 1974, the Office of Women's Studies opened its doors at UWM, becoming the first university in Wisconsin to establish a Women's Studies program. Today, undergraduate students at UWM can pursue a Women's and Gender Studies major or minor, and graduate students can choose from among three different Women's and Gender Studies MA options or a certificate to complement a different graduate degree program. Undergraduates benefit from the MA program's strength by working with and learning from graduate students and taking classes with the same exceptional faculty.

Students in Women's and Gender Studies master critical thinking, problem analysis, and communication through both classroom studies and service learning opportunities.

Students who are interested in the minor should consult with Women's and Gender Studies to make a formal declaration. For additional information, please contact Women's and Gender Studies, located in CRT 535, by phone at (414) 229-5918, or on the web (<https://uwm.edu/womens-gender-studies/>).

## Requirements

Students who minor in Women's and Gender Studies are required to take 18 credits drawn from Women's and Gender Studies and cross-listed courses, at least 9 credits of which must be completed in upper-division (numbered 300 or above) courses in residence at UWM. In addition, students must attain a 2.0 GPA in all minor courses attempted, including any transfer work. The following courses are required for the minor:

Code	Title	Credits
<b>Required</b>		
Select one from these two: <sup>1</sup>		3
WGS 200	Introduction to Women's and Gender Studies: A Social Science Perspective	
WGS 201	Introduction to Women's and Gender Studies: A Humanities Perspective	

WGS 401	Global Feminisms	3
WGS 410	Feminist Theory	3
<b>Electives</b>		
Select 9 credits (see below)		9
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Students may not receive credit for both WGS 200 and WGS 201. Only one of these courses can be taken for credit.

### Electives

Students must take an additional 9 credits of elective courses to reach a total of 18 credits. Approved electives include WGS courses and courses offered by other programs and departments; see the list below.

Numerous courses in a wide variety of disciplines have been approved as electives for the WGS major. For information about whether a special topics course in another program might be approved as an elective for WGS, please contact Women's and Gender Studies.

Code	Title	Credits
WGS 150	Multicultural America	3
WGS 192	First-Year Seminar:	3
WGS 199	Independent Study	1-3
WGS 297	Study Abroad:	1-12
WGS 301	Queer Theory	3
WGS 302	Gendered Bodies:	3
WGS 303	Feminist Activism and Movements:	3
WGS 380	Honors Seminar in the Social Sciences:	3
WGS 381	Honors Seminar in the Humanities:	3
WGS 411	Women's and Gender Studies Research Methods:	3
WGS 489	Internship in Women's and Gender Studies	1-3
WGS 497	Study Abroad:	1-12
WGS 500	Advanced Social Science Seminar in Women's and Gender Studies:	3
WGS 501	Advanced Humanities Seminar in Women's and Gender Studies:	3
WGS 699	Independent Reading	1-3
AFRIC 250	Black Women and White Women in the Contemporary United States	3
AFRIC 344	Global Black Social Movements	3
AFRIC 350	The Black Family	3
AFRIC 351	Sexuality, Gender, and Health in Africa and the Diaspora	3
AFRIC 352	Extended Families in Black Societies	3
AFRIC 414	The Black Woman in America, Africa, and the Caribbean	3
AFRIC 417	Race, Class and Gender in Southern Africa	3
AFRIC 418	Race, Class, and Gender in Latin America and the Caribbean	3
ANTHRO 250	Women's Roles in Cross-Cultural Perspective	3
BIO SCI 206	Biology of Women	3
BUS ADM 441	Diversity in Organizations	3

COMMUN 401	Communication in Marital and Family Relationships	3
COMMUN 402	Gender and Communication	3
COMMUN 474	Rhetoric of Women's Rights in the US	3
CRM JST 385	Women and Criminal Justice	3
CRM JST 416	Intimate Partner Violence	3
ECON 248	Economics of Discrimination	3
ED POL 624	Gender and Education	3
ENGLISH 243	Introduction to Literature by Women:	3
ENGLISH 295	Women and Film	3
ENGLISH/FILMSTD 395	Feminist Media Criticism and Theory:	3
ENGLISH 465	Women Writers:	3
ENGLISH 628	Seminar in Literature by Women:	3
ENGLISH 629	Seminar in Literature and Sexuality:	3
ETHNIC 255	Migration and Gender: Starbucks, Sex Trafficking, and Nannies	3
ETHNIC 275	Queer Migrations	3
ETHNIC 325	Gender, Race, and Ethnicity in Milwaukee:	3
FILMSTD 669	Screening Sexuality:	3
GEOG 410	Gendered Geographies	3
HIST 141	Global History of the Family, Gender, and Sexuality	3
HIST 241	Women and Gender in Europe: 1350 to 1750	3
HIST 242	Women and Gender in Europe: 1750 to the Present	3
HIST 243	History of Women in American Society	3
HIST 271	The 1960s in the United States: A Cultural History (WGS voted to approve cross-listing this course in spring 2023.)	3
HIST 355	Modern and Contemporary France	3
HIST 373	Topics in Gender and History:	3
HIST 468	The American Feminist Movement	3
JAMS 111	Gender and the Media	3
JEWISH 332	Women in the Bible	3
LGBT 200	Introduction to Lesbian, Gay, Bisexual, and Transgender Studies	3
LGBT 275	Queer Migrations	3
LGBT 290	Topics in LGBT Studies:	3
LGBT 599	Selected Topics in LGBT Studies:	3
LINGUIS 212	Language and Gender	3
MUSIC 449	Women in Music:	3
NURS 204	Global Maternal and Child Health: From Evidence to Action	3
NURS 327	Nursing Science III: Health Concepts-Women & Children	4
NURS 620	Global Food Security and Systems	3
PHILOS 235	Philosophical Aspects of Feminism	3
POL SCI 110	Sex and Power	3
POL SCI 368	Gender and Politics in Developing Nations	3
POL SCI 425	Women in Politics	3

POL SCI 464	Sex, Gender, and the Law	3
PSYCH 319	LGBTIQ Psychology	3
PSYCH 320	Psychology of Gender	3
SOCIOL 250	Sex and Gender	3
SOCIOL 255	Sociology of Sexuality	3
SOCIOL 260	Blood, Sex, Money, Power: Families and Intimate Relationships	3
SOCIOL 442	The Work-Family Intersection	3
SOCIOL 444	Sociology of the Body	3
SOC WRK 630	Families and Poverty	3

## Letters & Science Minor Advising

Advising for the minor takes place within the department by a faculty member or staff member. Follow the steps using the "Declare a Minor" button on the department's website which may include instructions on how to select a faculty advisor if there is more than one to choose from.

Students who already have an L&S college advisor because their degree plan is in L&S can discuss the minor with them as well since they will be familiar with any minor in L&S. Students who are working on a degree from a UWM college other than the College of Letters & Science will not need an L&S college advisor for just a minor and one will not be assigned. These students should work with the faculty or staff advisor they receive as part of the minor declaration process or contact the department directly for assistance.

Applicants who have not started classes at UWM yet who wish to declare a minor should wait until they are registered for their first UWM classes and then can declare the minor using the "Declare a Minor" button on the program's website. If you have questions about the minor before then, contact [let-sci@uwm.edu](mailto:let-sci@uwm.edu).

# PUBLIC HEALTH (JOSEPH J. ZILBER COLLEGE OF)

Are you fascinated by links among cells, society, and health? Do you want to be a champion for community health, health equity, and social and environmental justice?

Then the Joseph J. Zilber College of Public Health is ready to prepare you for your career! Our graduates pursue a wide variety of jobs including clinical exercise physiologist, community outreach and education coordinator, data manager/analyst, environmental scientist, epidemiologist, grant writer/coordinator, health educator, program manager/evaluator, personal trainer, public health analyst, risk assessor, and strength and conditioning specialist.

We are home to a community of emerging student scholars and established faculty scholars from multiple health fields applying public health across the health continuum – ranging from cells and physiology to societal issues and from prevention to treatment. Public health is concerned with protecting the health and well-being of entire communities and populations. It is the science and art of preventing disease, prolonging life, and promoting health and well-being through the organized efforts of society. Public health also works to eliminate social inequities in health – we address how the advantages and disadvantages that people experience based on their social circumstances influence population health. Whereas medicine mostly treats people once they become sick, those of us working in public health strive to prevent people from getting sick or injured in the first place. Thus, public health covers a wide range of factors that affect population health and well-being, such as economic and social policies, poverty, environmental hazards, access to quality healthcare, health-promoting behaviors, and genes.

Our highly trained faculty are passionate educators leading research programs and engaging communities to improve public and population health issues. The Zilber College offers undergraduate and graduate programs, as well as certificates and pre-professional pathways, that are training the next generation of health professionals to respond to the increasing market demand for individuals with degrees in health fields.

## About the Zilber College of Public Health

The Zilber College currently has 39 full-time faculty and instructors across seven public and population health areas (biostatistics/health informatics, community and behavioral health promotion, environmental health, epidemiology, kinesiology, nutrition, and public health policy). Our faculty are experts on critical issues like air pollution and autism, cancer, cardiovascular disease, health disparities, big data on health, infant mortality, mass incarceration, nutrition, tobacco and e-cigarettes, water health, and more. Our students obtain an education informed by multiple fields, that delivers concrete skills through hands-on learning, from one of the nation's top universities for research and community engagement.

The Zilber College is Wisconsin's only college of public health accredited by the Council on Public Health Education (CEPH). It is also home to Wisconsin's only MPH path to the Registered Dietitian credential accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND).

The Zilber College embraces its mission to advance population health, health equity, and social and environmental justice among diverse communities in Milwaukee, the state of Wisconsin, and beyond through

education, research, community engagement, and advocacy for health-promoting policies and strategies. We educate current and future health professionals in the science, practice, critical thinking, and leadership skills necessary to promote population health and reduce health inequities.

## Programs

The Zilber College of Public Health offers bachelor's, master's, and doctoral degree programs across seven public and population health areas (biostatistics/health informatics, community and behavioral health promotion, environmental health, epidemiology, kinesiology, nutrition, and public health policy). We also offer minors, certificates and pre-professional pathways.

Undergraduates who do not major in one of our three bachelor's programs may still take some of our health courses to satisfy university general education requirements: PH 101, PH 306, KIN 350, and KIN 351 meet the Social Sciences (SS) GER; KIN 230/NUTR 230 and PH 303 meet the Natural Sciences (NS) GER; KIN 270 meets the QL-B requirement; and KIN 245 meets the Cultural Diversity GER.

## Undergraduate

### Major

- Kinesiology, BS (p. 1347)
- Nutritional Sciences, BS (p. 1355)
- Public Health, BS (p. 1363)

### Minor

- Kinesiology, Minor (p. 1349)
- Nutritional Sciences, Minor (p. 1359)

### Pre-Professional

- Pre-Athletic Training (p. 1359)
- Pre-Dietetics (p. 1361)
- Pre-Physical Therapy (p. 1362)

## Master's

- Biostatistics, MS (p. 1337)
- Health Care Informatics, MS (p. 1342)
- Health Care Informatics, MS/Library and Information Science, MLIS (p. 1343)
- Kinesiology, MS (p. 1349)
- Public Health, MPH/Social Work, MSW (p. 1367)
- Public Health, MPH: Biostatistics (p. 1370)
- Public Health, MPH: Community and Behavioral Health Promotion (p. 1372)
- Public Health, MPH: Environmental Health Sciences (p. 1374)
- Public Health, MPH: Epidemiology (p. 1377)
- Public Health, MPH: Nutrition and Dietetics (p. 1379)
- Public Health, MPH: Public Health Policy (p. 1381)

## Doctoral

- Environmental Health Sciences, PhD (p. 1338)
- Epidemiology, PhD (p. 1340)
- Kinesiology, PhD (p. 1351)
- Public Health, PhD: Biostatistics (p. 1384)

- Public Health, PhD: Community and Behavioral Health Promotion (p. 1386)

- Interprofessional Public and Population Health, Graduate Certificate (Zilber College of Public Health) (p. 1345)

## Certificates

- Health Care Informatics, Undergraduate Certificate (Zilber College of Public Health) (p. 1344)
- Healthy Aging, Undergraduate Certificate (p. 1345)

- Maternal and Child Health, Graduate Certificate (p. 1354)

- Public Health, Undergraduate Certificate (p. 1388)

- Study of Complementary and Integrative Health Approaches, Undergraduate Certificate (p. 1389)

## Faculty

Name	Rank	Degree	School	Graduate Faculty	Emeritus Faculty
Chris Cho	Associate Researcher, Statistician	MS	University of Illinois Chicago		
Ron Cisler	Professor	PhD	University of Wisconsin-Milwaukee		✓
Stephen Cobb	Associate Professor	PhD, ATC	Georgia State University	✓	
Margaret Duncan	Professor	PhD	Purdue University		✓
Chukuka Enwemeka	Distinguished Professor, Dean	PhD	New York University		✓
Christy Greenleaf	Professor	PhD	University of North Carolina-Greensboro	✓	
William Gregory	Professor	PhD	Massachusetts Institute of Technology		✓
Amy Harley	Interim Dean/Assoc. Dean/ Associate Professor	PhD, MPH, RD	The Ohio State University	✓	
Barbara Hart	Associate Professor	PhD	University of Massachusetts		✓
Cynthia Hasbrook	Professor	PhD	University of Illinois		✓
John Holland	Clinical Assistant Professor, BS Kinesiology Program Director	MS, CSCS	Minnesota State University- Mankato		
Amy Kalkbrenner	Associate Professor	PhD, MPH	University of North Carolina at Chapel Hill	✓	
Chiang-Ching (Spencer) Huang	Professor	PhD	University of Michigan	✓	
Kevin Keenan	Associate Professor	PhD	University of Colorado	✓	
Lori Klos	Associate Professor, BS Nutritional Sciences Program Director, MPH-Nutrition and Dietetics Program Director	PhD, RD	Cornell University	✓	
Susan Kundrat	Clinical Professor	MS, RD	Iowa State University		✓
Sara Luelloff	Clinical Assistant Professor, Sport & Recreation Program Director	MS	University of Wisconsin-Milwaukee		
Jake Luo	Associate Professor	PhD	Queen's University, Belfast, UK	✓	
John Lynch	Associate Professor	PhD			✓
Priya Nambisan	Associate Professor	PhD	Rensselaer Polytechnic Institute	✓	
Kristian O'Connor	Professor, UWM Associate Vice Provost for Research	PhD	University of Massachusetts		
Lora Taylor De Oliveira	Clinical Associate Professor	MPH, MBA	University of Minnesota		
Elise Papke	Special Senior Lecturer	DrPH	University of Illinois Chicago		
Erika Sander	Associate Professor	PhD	University of California, Berkeley		✓
Stephanie Send	Clinical Assistant Professor	MS, RDN, LDN, CNSC	Rush University		
Ann Snyder	Professor	PhD	Ball State University		✓
Scott Strath	Professor, MS Kinesiology Program Director, PhD Kinesiology Program Director	PhD, FACSM	University of Tennessee	✓	
Ann Swartz	Professor	PhD, FACSM	University of Tennessee	✓	



Ellen Velie	Professor	PhD	University of California at Berkeley	✓
Emmanuel Ngui	Associate Professor	DrPH, MSc	University of North Carolina at Chapel Hill	✓
Keith Dookeran	Associate Visiting Professor	PhD, MBA, MD	University of Illinois Chicago	
Kurt Svoboda	Associate Professor	PhD	S.U.N.Y at Stony Brook	✓
Jinsung Wang	Associate Professor	PhD	Arizona State University	✓
Lance Weinhardt	Professor	PhD	Syracuse University	✓
Linnea Laestadius	Associate Professor	PhD, MPP	Johns Hopkins University	✓
Lorraine Halinka Malcoe	Associate Professor	PhD, MPH	University of California at Berkeley	✓
Min Wu	Associate Professor	PhD	University of North Carolina	✓
Meng Xiong	Assistant Visiting Professor	MPH, ABD	The George Washington University	
Michael Laiosa	Associate Professor	PhD	State University of New York, Upstate Medical University	✓
Musa Yahaya	Teaching Faculty II	PhD	Southern Illinois University Carbondale	
Nour Taha	Lecturer	MS	Suffolk University	
Paul Florsheim	Professor	PhD	Northwestern University	✓
Phuong (Phoenix) D. Do	Associate Professor	PhD	The RAND Graduate School	✓
Renee Scampini	Teaching Faculty II	PhD	University of Wisconsin-Milwaukee	
Rose Hennesey Garza	Assistant Visiting Professor	PhD	University of Wisconsin-Milwaukee	
Todd Miller	Associate Professor	PhD	University of Maryland	✓
Xiaobei (Shel-bay) Dong	Assistant Professor	PhD	University of Maryland	✓
Young Cho	Associate Professor	PhD	University of Illinois Chicago	✓

## Contact Information

### Zilber School of Public Health

1240 N. 10th Street  
Milwaukee, WI 53205

<http://uwm.edu/publichealth/>

## Biostatistics, MS

The Master of Science in Biostatistics program provides an innovative curriculum to meet a range of professional needs and interests. The program trains students in study design, appropriate use of statistical and computational techniques, and interpretation of data analysis results arising from public health and biomedical research. Students learn both classical and modern statistical methods and apply their statistical skills and knowledge to solve "big data" problems. They have the opportunity to work with faculty on cutting edge research projects, such as discovering genetic causes of common diseases, developing statistical algorithms to monitor treatment efficacy, and reducing medical costs through electronic health record.

Please email [applyph@uwm.edu](mailto:applyph@uwm.edu) to learn more about the MS in Biostatistics degree.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

- An applicant must meet Graduate School requirements plus the following program requirements to be considered for admission to the program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.
  - Three letters of recommendation from persons familiar with the applicant's academic experience and potential for graduate work in biostatistics.
  - CV or resume.
  - Score report from the General Test of the Graduate Record Examination (GRE) (<http://uwm.edu/graduateschool/admission/#gre>), taken within the last five years.
  - The admissions committee may consider GMAT (<http://uwm.edu/graduateschool/admission/#gmat>), LSAT, MCAT scores in place of GRE (<http://uwm.edu/graduateschool/admission/#gre>) scores. Students requesting this or any other exception should apply in writing for consideration by the Applications Review Committee.
- Address the following two Short Essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
  - Describe how your professional, volunteer, and educational background has led you to seek a Master's of Science in Biostatistics.
  - How will an MS in Biostatistics help you reach your personal and professional goals?
- International applicants must also meet admission standards set and monitored by UWM's Center for International Education.
- All applicants** must use SOPHAS (<https://sophas.org/>) to apply. When applying applicants must select the Master's of Science in Biostatistics.

## Credits and Courses

The Master of Science in Biostatistics is a two-year program, preparing graduates to be effective collaborators in many settings, including the biomedical industry, academia, and public service at all levels of national and international government. Students will be trained to lead the design and data analysis of health research studies both in applied and academic settings. Coursework focuses on applied biostatistical methods, statistical consulting, computing, and the intersection of public health and statistical research. Students must complete 39 graduate credits beyond the bachelor's degree, plus an additional 3 credits dedicated toward thesis writing and research, for a total of 42 credits. Completion of a high-quality master thesis based on original research is a key indicator of the student's capacity to integrate and apply various biostatistical methods and public health knowledge in real world problems.

Code	Title	Credits
<b>Required Coursework</b>		
PH 702	Introduction to Biostatistics	3
PH 704	Principles and Methods of Epidemiology	3
PH 711	Intermediate Biostatistics	3
PH 712	Probability and Statistical Inference <sup>1</sup>	3
PH 715	Applied Categorical Data	3
PH 716	Applied Survival Analysis	3
PH 717	Applied Longitudinal Data Analysis	3
PH 718	Data Management and Visualization in R	3
PH 801	Seminar in Public Health Research	3
PH 813	Practice of Biostatistical Consulting	3
PH 895	Research and Thesis for MS in Biostatistics	3
<b>Subject Matter S Electives</b>		<b>6</b>
Choose two:		
COMPSCI 708	Scientific Computing	
COMPSCI 711	Introduction to Machine Learning	
ED PSY 823	Structural Equation Modeling	
ED PSY 832	Theory of Hierarchical Linear Modeling	
PH 714	Statistical Genetics and Genetic Epidemiology	
PH 721	Introduction to Translational Bioinformatics	
PH 722	An Introduction to Bayesian Statistics	
PH 723	Design, Conduct and Analysis of Clinical Trials	
PH 812	Statistical Learning & Data Mining	
PH 818	Statistical Computing	
<b>Public Health &amp; Biology Electives <sup>2</sup></b>		<b>3</b>
Choose one:		
BIO SCI 490	Molecular Genetics	
PH 703	Environmental Health Sciences	
PH 705	Principles of Public Health Policy and Administration	

PH 706	Perspectives on Community & Behavioral Health
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**Total Credits**

**42**

<sup>1</sup> Or other elective.

<sup>2</sup> Other courses may be approved.

## Additional Requirements

### Applied Research Project

Near the end of their programs, students will consult with their academic advisor to identify a Biostatistics Track faculty member to be their master's thesis advisor for the applied independent study project. This can be their assigned advisor or a different member of the Biostatistics Track Faculty. Advising is by mutual agreement between student and faculty member. The Faculty member then supervises and approves the candidate's master thesis. Every student must finalize the thesis advisor and prepare a brief thesis research plan no later than the start of the semester in which the student plans to graduate. It is highly recommended that each student speak to the potential thesis advisor and find the project of their interest as early as possible. The thesis research plan should include basic background, outline of specific aims and hypotheses, proposed analysis methods, draft timelines, and expected outcomes. Once the approved thesis research and write-up has been completed, the candidate will submit the work to the thesis advisor for review and approval. The candidate will present their thesis in a session that is open to the academic community.

### Time Limit

The student must complete all degree requirements within 5 years of initial enrollment.

## Environmental Health Sciences, PhD

The program in Environmental Health Sciences (EHS) offers graduate studies leading to the doctoral degree. Faculty in this program have diverse expertise in the environmental health sciences spanning a broad range of research domains including developmental toxicology, environmental toxicology and chemistry, microbial influences on water contamination, and environmental epidemiology. The EHS program through its faculty, offers students an unparalleled opportunity for cross-disciplinary training in pursuit of original and cutting-edge dissertation research. The research may involve wet lab work, animal model systems, field work, or use of human and environmental datasets. Additional laboratories and equipment are available across campus to help facilitate innovative research endeavors relevant to environmental health science.

When applying for admission, students should describe their interest in the field and any research preferences. Applicants are encouraged to review the research interests of the faculty and contact those faculty who are of interest.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

Applicants must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus the following program requirements to be considered for admission:

- A baccalaureate degree in a science discipline, or coursework commensurate with a science discipline (e.g. laboratory and basic science courses) and one statistics course.
- Submission of scores on the General Test portion of the Graduate Record Examination (<http://uwm.edu/graduateschool/admission/#gre>); test taken within last five years.
- Submission of at least three letters of recommendation from persons familiar with the applicant’s scholarship, research achievements and potential.

For students entering with an advanced degree, credit may be given for relevant coursework following Zilber College of Public Health policies and procedures regarding course equivalencies.

## Reapplication

A student who receives the Master of Public Health degree from the University of Wisconsin-Milwaukee must formally reapply to the Zilber College of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

## Credits and Courses

The PhD in Environmental Health Sciences requires 65 credits beyond the bachelor’s degree. In addition to the PhD Common Core Coursework, credits include required concentration coursework (17 credits), electives (at least 12 credits), and the remaining credits taken as research.

Code	Title	Credits
<b>Required Core PhD Courses</b>		
PH 704	Principles and Methods of Epidemiology	3
PH 711	Intermediate Biostatistics	3
PH 801	Seminar in Public Health Research	3
PH 819	Social and Environmental Justice in Public Health	3
or PH 859	Racial/Ethnic Health Disparities in the United States	
<b>Required EHS Track Coursework</b>		
PH 705	Principles of Public Health Policy and Administration	3
PH 743	Environmental Risk Assessment	3
PH 745	Developmental Toxicology	3
PH 750	Seminar in Environmental Health Sciences: (Subtitled)	2
PH 808	Writing a Federal Grant in the Public Health Sciences	3
PH 821	Advanced Survey of Environmental Health	3
<b>Research</b>		<b>24</b>
<b>Electives (see table below)</b>		<b>12</b>
<b>Total Credits</b>		<b>65</b>

Electives are divided into three categories (molecular, organismal, and population). The student will take courses relevant to their research in consultation with their major professor.

## Electives

Code	Title	Credits
<b>Molecular Level “S” Electives</b>		
BIO SCI 529	Molecular Biology of Microorganisms	3
BIO SCI 540	Microbial Diversity and Physiology	3
BIO SCI 564	Endocrinology	3
BMS 590	Topics in Clinical Laboratory Sciences: (Public Health Nutrition and Food Politics)	1-5
BMS 615	Cellular and Molecular Toxicology	3
CHEM 601	Biochemistry: Protein Structure and Function	3
CHEM 602	Biochemistry: Cellular Processes	3
CHEM 604	Biochemistry: Metabolism	3
<b>Organismal Level “S” Electives</b>		
BIO SCI 401	Immunology	3
IND ENG 580	Ergonomics	3
IND ENG 780	Advanced Ergonomics - Low Back Pain	3
IND ENG 783	Advanced Ergonomics - Upper Extremity	3
<b>Population Level “S” Electives</b>		
FRSHWTR 506	Environmental Health of Freshwater Ecosystems	3
GEOG 520	Physical Geography of the City	3
GEOG 945	The Internal Structure of the City	3
PH 721	Introduction to Translational Bioinformatics	3
PH 741	Environmental Public Health Microbiology	3
PH 762	Environmental Epidemiology	3
URBPLAN 662	Public Sector Influence on Real Estate Development	3
URBPLAN 771	Transportation Policy and Planning	3
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	3
URBPLAN 792	Using Urban Geographic Information Systems (GIS) for Planning	3
URBPLAN 794	Internet Geographic Information Systems (GIS)	3

Other courses as approved by advisor.

## Additional Requirements

### Major Professor as Advisor

As specified in Graduate School regulations, each student in the EHS PhD program must have a major professor to advise and supervise their studies. Typically, a student is matched with a major professor during admission to the program, based on a fit of research interests. The major professor serves as the student’s research mentor and will guide the student in course selection and research design.

## Residence

The student must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence requirements cannot be met at the master's level.

## Academic Advisory Committee

During the spring of the first year in the program, the student should form an academic advisory committee which is to consist of the student's advisor and two faculty members from within the Zilber College of Public Health primary public health faculty.

## Doctoral Qualifying Exam

Within 30 days following the second semester of enrollment, the student is required to pass a qualifying exam that is scheduled with a 2-hour time block. The student will give an oral synopsis/self-evaluation of their first year in the program describing highlights from their coursework and will discuss their specific interests in environmental health that they plan to evolve into a dissertation project. The academic advisory committee will evaluate if the student has demonstrated a knowledge base in Public Health that was to be firmly established in the first year of coursework. The academic advisory committee in conjunction with the student will also map out the remaining coursework that needs to be completed by the end of the third year in the program. Students failing the qualifying exam will not be allowed to continue in the program and will forfeit their TAsip, PAsip, or RAsip if applicable.

## PhD Advisory Committee

The student, in consultation with the Major Professor, will select four or five additional members to form a PhD Advisory Committee (i.e. dissertation committee). This is typically done during the second or third year in the program in conjunction with the emergence of the student's dissertation idea. A minimum of three committee members (including the major professor) must be EHS program faculty. See the Graduate School Doctoral Requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>) page for more information on the doctoral committee.

## Doctoral Preliminary Examination

This examination must be taken no later than the end of the third year of study. In order to take the preliminary exam, all formal coursework must be completed with a cumulative GPA of 3.0 or higher. The preliminary examination consists of both written and oral components. The written component will consist of the student presenting their dissertation proposal to the PhD Advisory Committee. In the "General Public Health Knowledge Phase" of the preliminary examination, the student will be evaluated (via oral questioning) by the PhD Advisory Committee to determine if the student has truly acquired Public Health competencies which should have been acquired by completion of the formal coursework in the EHS PhD program. A student who fails the doctoral preliminary examination will be dismissed from the program.

## Dissertator Status

Specific requirements which must be completed before a doctoral student qualifies for dissertator status are described on the Graduate School Doctoral Requirements (<http://uwm.edu/graduateschool/doctoral-requirements/>) page.

## Dissertation

Doctoral students should be aware that the research component is extremely important and requires significant time allocation. Students

should be aware that if full-time commitment to dissertation research is not given, that the time to graduation may be extended by many years, jeopardizing degree completion. Successful doctoral students in our EHS program should anticipate working long hours, including on weekends, winter intersession and summer months. Students are also expected to enroll in, and successfully complete research credits. Six or more of these research credits must be obtained at the level of dissertator.

All successful doctoral students must prepare and successfully defend a dissertation reporting the results of their research. A full time student who does not pass the dissertation defense within six years of admission may be required to take another preliminary examination and be readmitted to the program.

## Time Limit

The student must complete all requirements for the degree within 10 years of the date of initial enrollment in the program.

## Epidemiology, PhD

The PhD program in epidemiology prepares graduates for many career paths, including academia, non-governmental organizations, and public service at all levels of local, national, and international government. Faculty in epidemiology have a broad range of interests in health equity, chronic disease, cancer, nutrition, epidemiologic methods, and environmental epidemiology. Through rigorous theoretical and methodological training, students learn to conduct independent research that examines the distribution and determinants of health, and to translate their findings to public health policy and strategies to promote population health. The program encourages applicants from diverse backgrounds who have a clearly communicated interest in epidemiology and in promoting health equity.

This program also meets requirements outlined by the national Council on Education for Public Health (CEPH).

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants must meet Graduate School requirements plus these departmental requirements to be considered for admission to the program:

1. Submission of scores from the Graduate Record Examination (GRE), taken within 5 years of the date of application. While there is not a minimum GRE score requirement, strong quantitative, verbal and writing skills are critical to successfully completing the program.
2. Three letters of recommendation are required. At least one letter must be from a university faculty member.

### Recommended:

- Applicants should have an earned bachelor's degree in any field with a cumulative undergraduate GPA of 3.0 or higher.
- A completed Master's degree in Epidemiology, public health or the social sciences is encouraged, but not required.

- At least one undergraduate mathematics or statistics course and one biological sciences course with a 3.0 is preferred.

### Reapplication

A student who receives the Master of Public Health degree must formally reapply to the Zilber College of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

## Credits and Courses

The curriculum consists of 75 credits to degree completion beyond the bachelor’s degree – 66 credits of didactic coursework and 9 credits toward dissertation writing and research. Students will take 24 credits of coursework to introduce them to the principles of Epidemiology, Biostatistics, public health policy and community engagement. They will take 6 credits of ‘s’ elective coursework in subject matter areas, 6 credits of coursework in more advanced analytic methods, and 3 credits of an elective in an area that aligns with their research interests. They will also take 9 credits of advanced coursework in both theoretical and applied epidemiology, in addition to 6 credits in more advanced policy analysis and translation of epidemiologic findings to policy interventions. Additionally, students will take 12 credits of PhD-level coursework in research ethics, community engagement, and a seminar in current issues in epidemiology. Students may apply previous graduate course work towards didactic credits, contingent on assessment of course equivalencies, in accordance with UW-Milwaukee policies.

Code	Title	Credits
<b>Required Core PhD Courses</b>		
PH 704	Principles and Methods of Epidemiology	3
PH 759	Intro to Regression for Understanding the SDOH	3
PH 801	Seminar in Public Health Research	3
PH 819	Social and Environmental Justice in Public Health	3
<b>EPI PhD Required Courses</b>		
PH 700	Structures of Inequality and Population Health	3
PH 702	Introduction to Biostatistics	3
PH 705	Principles of Public Health Policy and Administration	3
PH 758	Social Epidemiology	3
PH 761	Epidemiology Field Methods	3
PH 763	Epidemiology for Equity	3
PH 779	Public Health Policymaking and Policy Analysis	3
PH 804	Advanced Epidemiology	3
PH 823	Applied Analysis of Binary Outcomes in Public Health Research	3
PH 864	Research Ethics in Epidemiology and Public Health	3
PH 870	Epidemiology in Health Policy and Advocacy	3
PH 904	Survey of Analytic Methods for Epidemiology	3
PH 960	Core Doctoral Seminar in Epidemiology	3
<b>Research</b>		<b>9</b>

PH 990	Research and Dissertation	
<b>Required Epidemiology Subject Matter “S” Elective</b>		
Select two courses from the following:		6
PH 762	Environmental Epidemiology	
PH 768	Cancer Epidemiology	
PH 769	Critical Perspectives on Nutritional Epidemiology and the Food System	
PH 865	Critical Methodologies for Health Equity Research	
PH 868	Epidemiologic Links Between Infectious and Chronic Disease	

<b>Analytic Methods Electives</b>		
Select two courses from the following; other classes as approved:		6
ED PSY 823	Structural Equation Modeling	
ED PSY 832	Theory of Hierarchical Linear Modeling	
GEOG 525	Geographic Information Science	
PH 712	Probability and Statistical Inference	
PH 714	Statistical Genetics and Genetic Epidemiology	
PH 715	Applied Categorical Data	
PH 716	Applied Survival Analysis	
PH 717	Applied Longitudinal Data Analysis	
PH 718	Data Management and Visualization in R	
PH 729	Survey Research Methods in Public Health	
PH 776	Qualitative Approaches in Public Health Policy	
SOCIOL 982	Advanced Quantitative Analysis	

<b>Other Electives</b>		
Select one course from the following; other classes as approved:		3
PH 727	Program Planning & Implementation in Public Health	
PH 728	Program Evaluation in Public Health	
PH 784	Social and Economic Policy as Health Policy	
PH 808	Writing a Federal Grant in the Public Health Sciences	
PH 820	Maternal and Child Health Foundations, Policy and Practice	
PH 826	Principles of Community Intervention Research	
PH 831	Community Engagement and Participatory Research Approaches in Public Health	
<b>Total Credits</b>		<b>75</b>

Note: Students may apply previous graduate course work towards didactic PhD credits, contingent on assessment of course equivalencies, in accordance with UW-Milwaukee policies.

## Additional Requirements

### Major Professor as Advisor

As specified in Graduate School regulations, each student must have a major professor to advise and supervise their studies. During the

application process, students will be asked to describe the research areas they are primarily interested in and identify faculty with whom they may potentially have shared research interests. The entering student is assigned an advisor/major professor at admission based on fit and focus. The major professor serves as the student's research mentor and will guide the student in course selection, program planning, and research design. Students may change their advisor/major professor if the fit and focus change over time. Such changes will need approval of the graduate program committee. The major professor must have graduate faculty status.

## Residence

The student must complete 8 to 12 graduate credits in each of two consecutive semesters, or 6 or more graduate credits in each of three consecutive semesters, exclusive of summer sessions. Residence requirements cannot be met at the master's level.

## Preliminary Examination

Students must pass a PhD Preliminary Examination before advancement to PhD candidacy (i.e., dissertator status). The exam will consist of a single take-home exam in which students provide written answers (about 20-25 double-spaced pages) to a series of questions in reference to select epidemiologic research articles. Students will have one week (typically Monday to Monday) to complete the exam. The Doctoral Preliminary Examination Committee will select the research articles and create the exam. The questions will assess several PhD program competencies and will require students to integrate content related to 1) epidemiologic concepts and methods, 2) data analysis methods and applications to epidemiologic research, 3) applications of theory, social and environmental justice, health equity, and community engagement to epidemiologic research, and 4) policy implications of epidemiologic research. The examining committee will grade the exam and assign either a pass, conditional pass, or fail. For a conditional pass, the examining committee will determine options for remediation including but not limited to an oral presentation or re-write of certain questions. At the discretion of the examining committee, a student who fails the preliminary exam may be allowed one additional attempt with all or part of the examination.

## Dissertation Proposal

The student, in consultation with the Major Professor, will select members to form a PhD Advisory Committee. See the Zilber College of Public Health Graduate Student Handbook and the Graduate School Doctoral Requirements page for more information on the doctoral committee. The dissertation research plan should include an abstract, background, outline of specific aims and hypotheses, (articulated as three distinct but related research questions), preliminary findings (if applicable), research methods proposed, public health significance of the proposed research and references. The composition of the dissertation committee must be in compliance with the rules and regulations of the Graduate School. The candidate then submits a written dissertation plan to be reviewed and formally approved by the dissertation advisory committee. The research plan must clearly outline the student's obligation for completing an original piece of work of sufficient quality, as determined by the committee. The review and approval process for the dissertation research plan will include a formal presentation to the committee.

## Dissertation Defense

Upon approval of the dissertation proposal, students will proceed with an original and significant research investigation under the supervision of their major professor, culminating in a written dissertation.

The dissertator must, as the final step toward the degree, pass an oral examination in defense of the dissertation. The dissertation defense will be publicly announced and open to the academic community. Once the defense is completed, students will be encouraged to revise their dissertation and submit it for publication.

Once the committee has formally approved the dissertation document and the oral defense, and the Chair of the appropriate program has certified completion of all requirements, the candidate is awarded the Ph.D. in Public Health.

## Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

# Health Care Informatics, MS

The Master of Science in Health Care Informatics degree focuses on the use of information technologies, data analytics and automation to improve health care. Professional expertise in health care informatics is needed by hospitals and other health care providers, medical centers and facilities, medical software companies, pharmaceutical companies, public health organizations, health insurance companies and medical research institutions. The master's program is designed to meet the demand for highly trained health care informatics professionals. The curriculum covers several areas including: systems analysis and design, database design and management, clinical decision support and computer programming. Students also get exposed to cutting-edge research in areas such as big data, predictive analytics, natural language processing, medical knowledge representation and information retrieval, which are rapidly becoming indispensable for improving health care.

The program is designed for both **full-time and part-time** students. Courses are **offered both face-to-face and online**. Mid-career professionals can use the fully online option for completing the degree.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) and submit GRE scores taken within the past five years (GRE requirement will be waived for applicants who already hold another master's degree or PhD, or the equivalent). No specific undergraduate major is necessary for admission. A typical applicant will have a background in a health-related field or in an information/computer-related field, but applicants from other academic or professional backgrounds are welcome to apply and will be considered on a case-by-case basis.

## Credits and Courses

The Master of Science in Health Care Informatics degree will be awarded upon completion of appropriate 33 credits (non-thesis option) or 36 credits (thesis option) of prescribed graduate study; 24 credits of core courses and 6 credits of electives are required, plus either 3-credit HI 891 or 6-credit HI 890.

Code	Title	Credits
<b>Core</b>		
HI 700	Introduction to Health Care Informatics	3
HI 741	Essential Programming for Health Informatics	3
HI 723	Health Care Systems Applications - Administrative and Clinical	3
HI 722	Legal, Ethical and Social Issues in Health Care Informatics	3
HI 740	Introduction to Biomedical Database Applications	3
HI 742	Computational Intelligence in Health Informatics	3
HI 745	Health Big Data Processing Platforms	3
PH 801	Seminar in Public Health Research	3
<b>Electives</b>		
Select two of the following: <sup>1</sup>		6
HCA 541G	Healthcare Information Systems Analysis and Design	
HI 760	Biomedical and Healthcare Terminology and Ontology	
PH 702	Introduction to Biostatistics	
HI 743	Predictive Analytics in Healthcare	
HI 744	Text Retrieval and Its Applications in Biomedicine	
HI 776	Biomedical Natural Language Processing	
HI 789	Biomedical Information Extraction	
HS 917	Seminar in Health Outcomes Assessment	
<b>Project or Thesis</b>		
HI 890	Health Care Informatics Research and Thesis	3-6
	or HI 891	Health Care Informatics Professional Project
<b>Total Credits</b>		<b>33-36</b>

<sup>1</sup> Electives other than those listed below are to be approved by the student's major professor.

## Thesis/Project Options

### Option A: Project Option

The Project option requires students to apply health informatics research and theory to a professional situation. The project must be undertaken in compliance with program requirements under the supervision of a HCI major professor. Students who choose this option count 3 credits of HI 891 toward the required 33-graduate-credit minimum.

### Option B: Thesis Option

The thesis option requires students to plan, design, execute and report results of original applied or basic research. Students who choose the thesis option are responsible for identifying a HCI major professor and a thesis committee. The thesis committee should consist of the major professor and at least two other graduate faculty. The student must pass a comprehensive oral examination in defense of the completed thesis. Students who choose this option count 6 credits of HI 890 toward the required 36-graduate-credit minimum.

## Additional Requirements

### Major Professor as Advisor

A student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. Initially the director of the HCI Program advises and supervises newly admitted students. Students are then assigned faculty advisors according to faculty advising loads.

### Program Completion Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Health Care Informatics, MS/Library and Information Science, MLIS

In collaboration with several other academic units at UW-Milwaukee, SOIS offers students the opportunity to obtain two Master's degrees concurrently—one in Library and Information Science (MLIS) and one in a subject area.

## Degree Requirements

- The number of degree credits needed for each of the coordinated programs is usually 12 fewer than the sum of the two programs if they were not taken simultaneously. *All degree requirements of each component must be satisfied.*
- The MLIS portion of the coordinated degrees can be completed online.
- Prerequisite to the award of either degree in this program is the simultaneous award of its counterpart degree.

### MLIS Component

The Master of Library and Information Science (MLIS) component of each of the coordinated programs includes 30 credits of SOIS courses. These include the MLIS core courses (12 credits). The remaining 18 MLIS credits are selected from the School's offerings in accordance with the student's goals in the coordinated degree program.

### MLIS/MS Health Care Informatics

The MLIS/MS Health Care Informatics Coordinated Degree Program is designed to provide students with theoretical and practical exposure to the evolving field of healthcare informatics as practiced in hospitals, clinics, professional offices, corporations, the government, the insurance industry, and higher education.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for

specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

Students are admitted to both graduate programs separately and admission requirements (<http://uwm.edu/graduateschool/admission/>) are consistent with those specified by the UWM Graduate School, the Health Care Informatics program, and the MLIS program of the School of Information Studies.

## Credit and Courses

Students accepted into this MS/MLIS program complete the following courses:

### Health Care Informatics

Code	Title	Credits
<b>Required HCI courses include:</b>		
HI 700	Introduction to Health Care Informatics	3
HI 722	Legal, Ethical and Social Issues in Health Care Informatics	3
HI 723	Health Care Systems Applications - Administrative and Clinical	3
HI 740	Introduction to Biomedical Database Applications	3
HI 741	Essential Programming for Health Informatics	3
HI 742	Computational Intelligence in Health Informatics	3
HI 745	Health Big Data Processing Platforms	3
PH 801	Seminar in Public Health Research	3
Select one of the following:		3
HI 890	Health Care Informatics Research and Thesis	
HI 891	Health Care Informatics Professional Project	
<b>Total Credits</b>		<b>27</b>

### Library and Information Science

Code	Title	Credits
<b>Required</b>		
INFOST 501	Foundations of Library and Information Science	3
INFOST 511	Organization of Information	3
INFOST 571	Information Access and Retrieval	3
INFOST 799	Research Methods in Information Studies (Culminating experience for the degree)	3
<b>MLIS Electives</b>		<b>18</b>
<b>Total Credits</b>		<b>30</b>

- **Minimum Credits for MHI: 27**
- **Minimum MLIS Credits: 30**
- **Minimum Total Credits for the Program: 57**

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the

other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

## Important

You must refer to the catalog pages of both individual master's programs to ensure that you meet all requirements for both degrees.

## Additional Requirements

### Time Limit

Students in the coordinated MS/MLIS degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Health Care Informatics, Undergraduate Certificate (Zilber College of Public Health)

*(Offered cooperatively by the University of Wisconsin-Milwaukee College of Health Professions and Sciences, Zilber College of Public Health, and School of Information Studies.)*

UWM offers a **certificate** in Health Care Informatics, a **Master of Science (MS)** in Health Care Informatics, and a **Ph.D.** in Medical Informatics. The undergraduate certificate is available in a **semester-based** in-person or online format or in the self-paced competency-based **Flexible Option**. It is available to students in any undergraduate major or university special students. The Flexible Option program allows for admission in any month.

Hospitals, clinics, private practices, health insurers, and other healthcare organizations have an extensive and complicated health information management infrastructure. Now more than ever, the healthcare industry needs professionals skilled in managing IT and who are well-versed in the unique needs of the healthcare systems. This certificate is valuable to students in the health professions, information studies, and related areas of study, such as public health, who are seeking professional employment in the health care industry.

Learning in the Health Care Informatics certificate demonstrates your knowledge and skills with a recognized credential. Completing this certificate signals your increased value to employers and can lead to expanded job opportunities or a graduate program in the field.

Learning goals for the six course (18 credit) certificate:

- Overview of the terminology and practices of health care
- Introduction to information technology theory and application
- Analysis and design of information systems in a healthcare environment
- Design, creation, and management of healthcare database systems
- Legal aspects of information products and services

Please see the requirements tab for complete information about curriculum and to declare this certificate.

See more information about the UW Flexible Option (<https://flex.wisconsin.edu/degrees-programs/health-care-informatics/>).



## Requirements

### Certificate goals:

1. Introduction to information technology theory and application;
2. Analysis and design of information systems in a healthcare environment;
3. Design, creation, and management of healthcare database systems; and
4. Legal aspects of information products and services.

### Curriculum

To obtain the certificate, the student must complete, with a minimum grade point average of 2.5, 18 credits in approved certificate courses of which 12 must be earned in residence at UWM.

Code	Title	Credits
HS 222 or BMS 205	Language of Medicine Introduction to Diagnostic Medicine	3
HS 224 or INFOST 110	Computational Tools for Healthcare Professionals Introduction to Information Science and Technology	3
INFOST 315 or INFOST 370	Knowledge Organization for Information Science and Technology Data Analysis and Visualization for the Information Professional	3
HI 537	Health Information Technology and Management	3
HCA 541 or INFOST 340	Healthcare Information Systems Analysis and Design Introduction to Systems Analysis	3
INFOST 465 or HS 311	Legal Aspects of Information Products and Services <sup>1</sup> Law and Ethics for Healthcare Professionals	3
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> HS 311 allowed only in Flexible Option. All other students enroll in INFOST 465.

## Admission

Students can declare this certificate by contacting their advisor. Certificates are awarded upon completion of all requirements or at time of graduation for students seeking a bachelor's degree.

A 2.5 GPA requirement is effective for students who declare this certificate summer 2021 or beyond.

## Healthy Aging, Undergraduate Certificate

*Effective Spring 2023, the Healthy Aging certificate has suspended admission.*

The Undergraduate Certificate in Healthy Aging is an interdisciplinary program housed in the Center for Aging and Translational Research. The certificate is designed for students:

1. To acquire basic foundational knowledge in the processes of aging, issues regarding aging, and the challenges of older adulthood.
2. To understand the interdisciplinary and integrative nature of gerontology.
3. To have practical experiences with older adults.

The certificate is open to all undergraduate students as well as non-degree seeking students with a bachelor's degree. Undergraduate students may earn the certificate in conjunction with any major. Those with a bachelor's degree may choose to complete the program to enhance their job performance or increase their marketability in the field of aging. Certificate completion will be posted on a student's official transcript and an official paper certificate will be sent to the student.

*Effective Spring 2023, the Healthy Aging certificate has suspended admission.*

## Requirements

The student must maintain a 2.5 GPA for the 18 credits that meet certificate requirements.

The program consists of 18 credits including:

Code	Title	Credits
<b>Core Curriculum</b>		
SOC WRK 300	Aged to Perfection: Introduction to the Study of Aging	3
Select 6 credits from core curriculum courses in the following areas: <sup>1</sup>		6
	Biological Aging	
	Psychological Aging	
	Social Dimensions of Aging	
<b>Correlates/Electives</b>		
Select 6 credits in aging-related courses <sup>2</sup>		6
<b>Practicum, Field Placement, Internship, or Service Learning</b>		
Select 3 credits in a course working primarily with older adults or caregivers		3
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> No more than three credits can be taken in one area. See the program coordinator for a current list.

<sup>2</sup> Select courses after consulting with the academic advisor for their program and the certificate coordinator. A maximum of 3 credits of approved independent study may be counted as an elective.

For additional information, contact the program coordinator in the Center for Aging and Translational Research, [catr@uwm.edu](mailto:catr@uwm.edu), (414) 229-7313.

## Interprofessional Public and Population Health, Graduate Certificate (Zilber College of Public Health)

The Interprofessional Public and Population Health Graduate Certificate is designed for students and working professionals involved in program planning and implementation, evaluation, education policy, health policy, engineering administration, research, and other areas related to public

and population health. It recognizes that an interdisciplinary, systems approach is essential for communities to solve complicated social and economic problems. No one perspective or set of strategies can address the many dimensions of current societal problems. Prevention and population health are important cornerstones of the solutions to these problems, requiring linkages and new models of interaction among primary care, hospitals, communities and public health.

The Interprofessional Graduate Certificate is a 16-credit program with courses in four core disciplines: epidemiology, health policy, social and behavioral health, and environmental health. The fifth course grounds students in public health principles and practice. The sixth course will provide students the opportunity to engage in interprofessional workshops and other learning forums to foster competencies in interprofessional values, communication and teamwork. Three of the courses, in health behavior, epidemiology and health policy, are offered online, which will provide added flexibility for students.

This program is open to post-baccalaureate students, to those currently enrolled in a UWM graduate degree program, as well as to health professionals who have completed a baccalaureate, master's or doctoral degree. The certificate program is a collaborative program between the College of Health Professions and Sciences, School of Nursing, and the Zilber College of Public Health, and is coordinated through the Zilber College of Public Health with administrative support from the School of Nursing.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The completion of 16 credit hours is required for the certificate program. All students are required to complete six courses (all are 3 credits unless noted):

Code	Title	Credits
PH 700	Structures of Inequality and Population Health	3
PH 703	Environmental Health Sciences	3

NURS 728	Epidemiological Principles for Population Health	3
NURS 803	Health Policy	3
KIN 556	Multilevel Approaches to Changing Physical Activity and Eating Behaviors	3
or KIN 534	Physical Activity, Exercise and Health	
ATRAIN 703	Foundations of Interprofessional Practice	1
<b>Total Credits</b>		<b>16</b>

Students will need to maintain a 3.0 GPA and meet all other standard requirements for UWM graduate students for continuation in the program.

## Additional Requirements

### Transfer Credit

No more than 20% of the required credits may be taken at an institution other than UWM. These courses are subject to Graduate School transfer policy and must be approved by the director of the certificate program.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

# Kinesiology, BS

**Are you fascinated by the science of human movement?** Then a major in **Kinesiology** might be for you. Join an exciting program where nationally known faculty are working to deepen our understanding of physical activity, health, exercise, and sport performance. As a Kinesiology major, you will study topics such as anatomy and physiology, biomechanics, psychosocial aspects of sport/exercise, motor development, and more. You will graduate ready to apply your knowledge and skills in professional settings including health care, athletics, wellness, and fitness. If you are interested in continuing your education, you will be well-positioned for graduate education in Kinesiology, as well as professional degree programs in athletic training (MSAT), physical therapy (DPT), and occupational therapy (MSOT).

**Curious about Kinesiology, "the science that moves us"?** We offer two introductory courses that all students can take to learn more about Kinesiology.

- **KIN 200: Introduction to Kinesiology.** In KIN 200, you will explore the science of human movement through different lenses. For example, you will study popular exercise/fitness trends, such as CrossFit, and explore the physiological, biomechanical, psychological, sociological, and motor behavior aspects of the trend. KIN 200 is an exciting course in which you will learn important scientific principles and research underlying the field of kinesiology.
- **KIN 230: Health Aspects of Exercise and Nutrition (NS GER).** KIN 230 introduces you to key concepts related to personal physical fitness and healthy eating. If you are interested in learning about and improving your own fitness and eating behaviors, this is a great class to take. \*KIN 230 is an online course.

**Interested in Physical Therapy or Athletic Training?** If you are interested in pursuing a career in Physical Therapy or Athletic Training, the Kinesiology major is a great choice as you will learn the scientific foundations of human movement and be well-prepared for admission into a professional program. Academic advisors (<https://uwm.edu/publichealth/directory/rufer-torry/>) in the Zilber College of Public Health can help you put together a plan of study so that you complete the prerequisites for admission into the UWM Doctor of Physical Therapy (<https://uwm.edu/healthsciences/academics/dr-physical-therapy/>) (DPT) or Master of Science in Athletic Training (<https://uwm.edu/healthsciences/academics/ms-athletic-training/>) (MSAT) programs. As a Kinesiology major, you can select a pre-physical therapy or pre-athletic training designation.

Undergraduate students may opt to take advantage of the UWM Accelerated BS Kinesiology / MS Athletic Training program (<https://uwm.edu/healthsciences/academics/accelerated-kinesiology-athletic-training/>). This program is for high-performing students and entails completing three years as a Kinesiology undergraduate student and then moving into the MSAT program as a graduate student. At the end of the fourth year (the first in the MSAT program), the BS Kinesiology degree is conferred. Upon successful completion of years four and five, students earn the MS in Athletic Training.

**Interested in transferring into the BS Kinesiology program from another school?** We welcome transfer students! To learn about how to transfer credits from another school to UWM and the BS Kinesiology program, visit the UWM transfer page (<https://uwm.edu/undergrad-admission/apply/transfer/>). Students can also reach out to our Kinesiology

Academic Advisor (<https://uwm.edu/publichealth/directory/rufer-torry/>). Specific transfer guides can be found for the following schools:

- MATC to UWM Kinesiology (<https://uwm.edu/onestop/wp-content/uploads/sites/82/2021/04/MATC-to-Kinesiology-Transfer-Guide-pdf.pdf>)
- UWM Waukesha and Washington to UWM Kinesiology ([https://catalog.uwm.edu/public-health/kinesiology-bs/UWM\\_Waukesha-Washington\\_CTY-Kinesiology\\_Updated\\_Transfer\\_Guide.pdf](https://catalog.uwm.edu/public-health/kinesiology-bs/UWM_Waukesha-Washington_CTY-Kinesiology_Updated_Transfer_Guide.pdf))
- Madison College to UWM Kinesiology (<https://uwm.edu/onestop/wp-content/uploads/sites/82/2021/04/Madison-College-to-Kinesiology-Transfer-Guide-pdf.pdf>)

## Requirements

Requirements for the BS Kinesiology program can be found on the BS Kinesiology webpage (<https://uwm.edu/publichealth/academics/bs-kinesiology/>).

**Note:** Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change. Please contact the Office of Student Affairs, NWQB 6425, (414) 229-2758, for the most current information.

## Course of Study

The undergraduate program is a four-year curriculum leading to a Bachelor of Science degree in Kinesiology. The program includes foundational studies, lab classes, and professional preparation leading to the completion of 120 credits for the Bachelor of Science degree.

Admission and progression criteria (including curricular requirements) for the BS Kinesiology Program are subject to change as of the publication date of this catalog. Please contact the Office of Student Affairs, NWQ Building B, 6th Floor, 414-229-2758, for the most current information.

## Eligibility

Students interested in Kinesiology will remain eligible for continuation in the degree by maintenance of a UWM cumulative grade point average of 2.0 or higher. Students may not repeat more than four (4) of the Kinesiology Foundation Courses.

## Admission

Students who are accepted to UWM with an interest in Kinesiology will be directly admitted to the major.

## Retention

Retention in the program and graduation are dependent upon maintaining good academic standing. Good academic standing is defined as:

1. Maintenance of a 2.0 cumulative UWM GPA.
2. Maintenance of a 2.0 Kinesiology Core GPA with earned credit in all Kinesiology Core courses. Students may not repeat more than three (3) of the Kinesiology Core courses.

## Degree Requirements

To fulfill the 120 credit requirement for the BS Kinesiology degree, Kinesiology students are required to complete the (a) University Core, (b) Kinesiology Foundations Coursework, (c) Kinesiology Core Coursework, (d) Upper Level and Advanced Level Kinesiology Elective Coursework, and

(e) Elective credits. Credit must be earned in all Kinesiology courses and a minimum 2.0 GPA (cumulative and Kinesiology Core) is required.

## A. University Core

Kinesiology students are required to complete the University Core. For details, see UWM's General Education Requirements (p. 30).

Code	Title	Credits
<b>University Core</b>		
<i>Competency Requirements</i>		
	Oral and Written Communication (OWC) Part A & B	
	Quantitative Literacy (QL) Part A & B	
	Foreign Language	
<i>Distribution Requirements</i>		
	Arts	3
	Humanities	6
	Natural Sciences	6
	Social Sciences	6
	Cultural Diversity	3

## B. Kinesiology Foundations

Kinesiology students are required to earn credit in the following Kinesiology Foundations courses:

Code	Title	Credits
KIN 200	Introduction to Kinesiology	3
KIN 220	Anatomical Kinesiology	3
KIN 230	Health Aspects of Exercise and Nutrition	3
KIN 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
KIN 270	Statistics in the Health Professions: Theory and Practice	3
ENGLISH 207	Health Science Writing	3
THERREC 103	Life Balance: An Understanding of Leisure	3
PH 101	Introduction to Public Health	3
	Complete 3 credits of NUTR	3
	Complete 3 credits of FitWell (Minimum 1 credit at 200-level)	3
<b>Total Credits</b>		<b>30</b>

## C. Kinesiology Core

Kinesiology students are required to earn credit in the following Kinesiology Core courses:

Code	Title	Credits
KIN 300	Professional Preparation Seminar	1
KIN 320	Biomechanics	3
KIN 330	Exercise Physiology	4
KIN 350	Psychological Aspects of Sport and Exercise	3
KIN 351	Sociological Aspects of Health and Human Movement	3
KIN 360	Motor Development Across the Lifespan	3
KIN 361	Principles of Motor Learning	3

KIN 400	Ethics and Values in the Health and Fitness Professions	3
<b>Total Credits</b>		<b>23</b>

## D. Upper and Advanced Level Kinesiology Coursework

In addition to the Kinesiology Foundations and Core requirements listed above, students will earn credit in a minimum of 12 credits of Upper Level and 6 credits of Advanced Level Kinesiology Coursework.

Code	Title	Credits
<i>Upper Level Kinesiology Requirement</i>		
	Select 12 credits from KIN 300-599	12
<i>Advanced Level Kinesiology Requirement</i>		
	Select 6 credits from KIN 500-599	6
<b>Total Credits</b>		<b>18</b>

## E. Electives

Students may select elective coursework that aligns with their interests, as well as educational and professional goals.

## Graduation Requirements

The following requirements must be met to graduate:

1. Completion of the required 120 degree credits;
2. Earned credit in required courses; and
3. Cumulative UWM GPA of 2.0 and Kinesiology Core GPA of 2.0.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## Zilber College of Public Health Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Kinesiology, Minor

The Minor in Kinesiology affords students opportunities to study the multidisciplinary science of human movement. Students interested in health, fitness, exercise, and sport will enjoy this minor.

Students who complete the Minor in Kinesiology will be able to:

1. Describe, from a multidisciplinary approach, the value and benefits of all forms of physical activity and a healthy lifestyle; and
2. Summarize and apply theoretical and scientific knowledge from multiple Kinesiology subdisciplines such as: biomechanics, exercise physiology, motor behavior, sociological and psychological aspects of physical activity, health, and sport.

## Requirements

To declare the Minor in Kinesiology, students must:

1. Have completed a minimum of 24 credits;
2. Have a minimum UWM GPA of 2.0; and
3. Complete the online declaration form.

The Minor in Kinesiology involves completing 18 credits of kinesiology coursework. Students must:

Code	Title	Credits
Select at least 12 credits from the following: <sup>1</sup>		12
KIN 200	Introduction to Kinesiology	
KIN 220	Anatomical Kinesiology	
KIN 230	Health Aspects of Exercise and Nutrition	
KIN 320	Biomechanics	
KIN 330	Exercise Physiology	
KIN 350	Psychological Aspects of Sport and Exercise	
KIN 351	Sociological Aspects of Health and Human Movement	
KIN 360	Motor Development Across the Lifespan	
KIN 361	Principles of Motor Learning	
Select 6 additional Kinesiology credits level 300 or above		6
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Declaration of minor is a prerequisite for each of these courses.

To be awarded the Minor in Kinesiology, students will need to earn credit in each course taken and have a minimum GPA of 2.0 in the 18 credits in the Kinesiology minor. Students must satisfy published prerequisites of any course.

Academic advisors within the Zilber College of Public Health Office of Student Affairs will assist students enrolled in the program with the development of career goals and the selection of appropriate courses

to further those goals. Please contact the Office of Student Affairs at 414-229-2758.

## Kinesiology, MS

The Master of Science (M.S.) degree in Kinesiology provides students with an understanding of the science of human physical activity, exercise, and sport, and their impact on health promotion, disease prevention, and performance.

### This degree prepares students for:

- Continuing their education in a doctoral program
- Continuing their education into a professional program such as physical therapy, rehabilitation, physician assistant or medicine
- Becoming specialists in strength and conditioning, performance, or clinical exercise physiology
- Advanced professional application of Kinesiology concepts

### Degree options:

The M.S. in Kinesiology is offered with different program lengths ranging from 12-24 months with a choice to individually fit your needs.

- **Option A Thesis:** This is typically for those students who want to engage in research and who are considering pursuing a Ph.D. after their M.S. degree. Areas of emphasis include Exercise Physiology, Physical Activity & Health, Neuromechanics (including Biomechanics and Motor Control & Behavior) and the Psychosocial Aspects of Health Behavior.
- **Option B Applied Focus Internship/Project:** This is typically for those students wanting to apply the science of the degree and follow a programmatic focus within the M.S. Program. For instance, this includes a focus dedicated to *Performance Physiology, Strength and Conditioning* or *Clinical Exercise Physiology*. Different foci prepare students to sit for national certifications such as the National Strength and Conditioning Associations Certified Strength and Conditioning Specialist (NSCA-CSCS) or the American College of Sports Medicines Certified Clinical Exercise Physiologist (ACSM-CEP).
- **Option C Exam:** This option offers students an emphasis M.S. degree choice area with a qualifying exam at the end of their chosen course work without the need to complete a thesis or an applied internship/project. This option can also be completed fully online.

At the time of application you will be asked to choose which option you would like to follow. You may change options during your graduate studies with the approval of the Kinesiology graduate program director.

For additional information, please contact Scott J. Strath (sstrath@uwm.edu), PhD, FACSM - M.S. Kinesiology Program Director or visit the M.S. Kinesiology Program (<https://uwm.edu/healthsciences/academics/ms-kinesiology/>) website.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

An applicant must meet Graduate School requirements (<http://uwm.edu/graduateschool/admission/>) plus these departmental requirements to be considered for admission to the program:

**PLEASE NOTE:** The GRE is no longer required for admission to the program.

- Two letters of recommendation.
- Narrative/Reasons statement. (Please explain your reasons for pursuing graduate study; Describe specific interests and your background in the field; List any relevant skills or training you have acquired; List relevant academic awards or honors you have received; and indicate preferred choice of Option A, B or C).

Applicants should visit the UWM MS Kinesiology website (<https://uwm.edu/healthsciences/academics/ms-kinesiology/>) for additional information about the program, funding opportunities, and application deadlines.

## Credits and Courses

The minimum degree requirement is 30 graduate credits for Options A (thesis), B (project or internship) and C (comprehensive examination). Option A students must take no fewer than 18 credits of core courses, 6 credits of elective courses, and 6 credits of thesis. Option B students must take no fewer than 18 credits of core courses, 6 to 9 credits of elective courses, and 3 to 6 credits of project or internship courses. Option C students must take no fewer than 18 credits of core courses and 12 credits of elective courses. Students must take elective courses from KIN courses at the 500-level or higher; 3 graduate credits may be taken from outside of KIN.

### Option A: Thesis Option

Code	Title	Credits
<b>Core Competency</b>		
KIN 702	Statistical Analysis in the Health Sciences	3
KIN 703	Research Methods in Kinesiology	3
PH 701	Public Health Principles and Practice	3
<i>Biomechanics and Motor Behavior</i>		
Select one of the following: 3		
KIN 520	Introduction to Biomechanics Research	
KIN 522	Biomechanics of Athletic Performance	
KIN 561	Investigating Motor Behavior in Health, Aging, and Disease	
<i>Exercise Physiology</i>		
Select one of the following: 3		
KIN 530	Physiology of Performance	
KIN 531	Clinical Exercise Physiology	
KIN 534	Physical Activity, Exercise and Health	
<i>Sociocultural and Behavioral Aspects</i>		
Select one of the following: 3		
KIN 556	Multilevel Approaches to Changing Physical Activity and Eating Behaviors	
KIN 574	Obesity and Weight Management	
KIN 580	Sports Nutrition	
<b>Electives</b> <sup>1</sup>		<b>6</b>

<b>Thesis</b>		<b>6</b>
KIN 895	Research and Thesis	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Elective courses must be 500+.

Students prepare a research thesis, which will earn 6 credits within the required 30 graduate credit minimum. Each student is responsible for initiating contact and dialog with the major professor to identify a thesis committee before completing 12 graduate credits. The thesis committee will consist of a minimum of three members. The major professor from the Kinesiology Program will serve as the committee chair. The remaining members may be UWM Graduate Faculty or individuals from outside the UWM Graduate Faculty that hold a doctorate and are actively engaged in scholarly inquiry in the field, or related field, associated with the thesis topic. An individual who is not a member of the UWM Graduate Faculty will be required to file a curriculum vita with the MS Kinesiology Program Director and be approved by the Kinesiology Graduate Faculty prior to serving as a committee member. The Major Professor approves a program of study designed to lead the student into the thesis research area.

### Option B: Project or Internship Option

Code	Title	Credits
<b>Core Competency</b>		
KIN 702	Statistical Analysis in the Health Sciences	3
KIN 703	Research Methods in Kinesiology	3
PH 701	Public Health Principles and Practice	3
<i>Biomechanics and Motor Behavior</i>		
Select one of the following: 3		
KIN 520	Introduction to Biomechanics Research	
KIN 522	Biomechanics of Athletic Performance	
KIN 561	Investigating Motor Behavior in Health, Aging, and Disease	
<i>Exercise Physiology</i>		
Select one of the following: 3		
KIN 530	Physiology of Performance	
KIN 531	Clinical Exercise Physiology	
KIN 534	Physical Activity, Exercise and Health	
<i>Sociocultural and Behavioral Aspects</i>		
Select one of the following: 3		
KIN 556	Multilevel Approaches to Changing Physical Activity and Eating Behaviors	
KIN 574	Obesity and Weight Management	
KIN 580	Sports Nutrition	
<b>Electives</b> <sup>1</sup>		<b>6-9</b>
<b>Project or Internship</b>		
<i>Capstone Project</i>		
KIN 890	Capstone Project	
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Elective courses must be 500+.

Students prepare a capstone project or an internship, which will earn up to 3 or 6 credits, within the required 30 graduate credit minimum

for graduation. Each student, with assistance from the MS Kinesiology Graduate Program Director, will be responsible for initiating contact and dialog with an identified major professor about their capstone project or internship before completing 12 graduate credits.

### Option C: Comprehensive Examination Option

Code	Title	Credits
<b>Core Competency</b>		
KIN 702	Statistical Analysis in the Health Sciences	3
KIN 703	Research Methods in Kinesiology	3
PH 701	Public Health Principles and Practice	3
<i>Biomechanics and Motor Behavior</i>		
Select one of the following:		3
KIN 520	Introduction to Biomechanics Research	
KIN 522	Biomechanics of Athletic Performance	
KIN 561	Investigating Motor Behavior in Health, Aging, and Disease	
<i>Exercise Physiology</i>		
Select one of the following:		3
KIN 530	Physiology of Performance	
KIN 531	Clinical Exercise Physiology	
KIN 534	Physical Activity, Exercise and Health	
<i>Sociocultural and Behavioral Aspects</i>		
Select one of the following:		3
KIN 556	Multilevel Approaches to Changing Physical Activity and Eating Behaviors	
KIN 574	Obesity and Weight Management	
KIN 580	Sports Nutrition	
<b>Electives <sup>1</sup></b>		<b>12</b>
<b>Total Credits</b>		<b>30</b>

<sup>1</sup> Elective courses must be 500+.

Students will take a comprehensive examination in the semester in which they apply for graduation. The comprehensive examination will be a 100 question multiple-choice exam with 25 items from the Core Competency and 25 items each from Biomechanics and Motor Behavior, Exercise Physiology, and Sociocultural and Behavioral Aspects of Kinesiology. Each student is responsible for requesting to take, and setting a date, for the comprehensive examination by notifying the MS Kinesiology graduate program director by the end of the first week of the semester in which they will apply for graduation. The MS Kinesiology graduate program director approves a program of study designed to lead the student into the comprehensive examination.

## Additional Requirements

### Major Professor or MS Kinesiology Program Director as Advisor

The Graduate School requires that each student have a major professor to advise, supervise and approve the program of study before registering for courses. Each student in Option A will be assigned an advisor upon admission. Students in Option B will be initially advised by the MS Kinesiology Graduate Program Director, and before the completion of 12

graduate credits will be assigned to a major professor. Students in Option C will be advised by the MS Kinesiology Graduate Program Director.

### Thesis, Project, or Comprehensive Examination

The student in Option A (thesis) or in Option B (project) must pass a comprehensive oral defense of the completed project. The student in Option B (internship) must write a paper on a related question for the internship and give an oral presentation. The student in Option C (comprehensive examination) must pass the exam.

### Time Limit

The student must complete all degree requirements within five years of initial enrollment.

## Kinesiology, PhD

With a focus on the interrelationships between human movement and health and performance, the foundation of the Ph.D. in Kinesiology curriculum provides students with both the classroom and experiential training that is critical to becoming a successful scholar. The Kinesiology doctoral program includes balanced and comprehensive doctoral-level training in Kinesiology theory, research methodology, and statistics that culminates in an innovative and publishable collection of work reflecting an integration of scientific discovery and application. The program focuses on developing scholars in areas of emphasis that align with faculty expertise.

The Kinesiology doctoral program provides students with excellent research training for academic and professional careers that require theory-driven basic and/or applied research skills, such as faculty and/or administrative positions within colleges and universities; careers in nonprofit service and research organizations; policy-making positions in government agencies and institutions; and careers in for-profit businesses.

For additional information, please contact Scott J. Strath (sstrath@uwm.edu), Ph.D., FACS M - Ph.D. Kinesiology Program Director or visit the Ph.D (<https://uwm.edu/healthsciences/academics/phd-kinesiology/>). Kinesiology Program (<https://uwm.edu/healthsciences/academics/ms-kinesiology/>) website.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

In addition to meeting the minimum UWM Graduate School's criteria for admission, applicants to the PhD program in Kinesiology must also reach out to a Major Professor in the Kinesiology Program prior to application. This is designed to align the prospective PhD student applicant interest with that of the Major Professor, and establish whether the Major Professor identified has availability to accept and mentor any new PhD student applicants. If the Major Professor and potential PhD applicant decide that an application is permitted the following are additional requirements that must be met:

1. Submit a curriculum vitae that includes all academic institutions attended, degrees achieved, and academic and professional accomplishments (e.g., publications, presentations).
2. Demonstrate, through submission of official transcripts from all institutions attended, a minimum grade point average of 3.0 for the highest degree program in which the student enrolled and/or completed. Particular attention will be paid to grades in classes that are relevant to the selected area of emphasis for the PhD Kinesiology program. Applicants currently enrolled in a baccalaureate program must demonstrate a minimum undergraduate grade point average of 3.0.
3. Solicit two confidential letters of recommendation from previous university instructors and/or faculty advisors.
4. Submit a writing sample from a research project in which the applicant was involved. Acceptable writing samples include, but are not limited to, submitted/published manuscripts, submitted/published abstracts, review of literature, report of a completed research project, research proposal, etc.
5. Submit a letter of intent that addresses the applicant's research interests (including intended area of emphasis and advisor at UWM) conducted research, ongoing research and career goals.

## Credits and Courses

The program requires students to complete a minimum of 58 graduate credits beyond the master's degree, or a minimum of 79 credits beyond the bachelor's degree. The curriculum is comprised of five main components:

1. Core curriculum
2. Area of emphasis curriculum
3. Cognate
4. Electives
5. Dissertation

All coursework will be decided upon and approved by the student and their PhD committee.

Credit distribution will be as follows:

Students entering with a MS:

Code	Title	Credits
	Core Curriculum	19
	Area of Emphasis Curriculum	15
	Cognate	9
	Electives	3
	Dissertation	12
<b>Total Credits</b>		<b>58</b>

Students entering with a BS:

Code	Title	Credits
	Core Curriculum	19
	Area of Emphasis Curriculum	21
	Cognate	12
	Electives	15
	Dissertation	12
<b>Total Credits</b>		<b>79</b>

All credits listed are minimum required credits for the program.

## Core Curriculum

The core curriculum focuses on developing the knowledge and skills necessary for students to conduct sound and innovative research, and to develop as a scholar. Coursework included in the core curriculum focuses on research methodology and design, statistical analysis, ethical conduct of research, professional development, and teaching and learning coursework.

Code	Title	Credits
<b>Core</b>		
Take the following for 1 credit repeated 4 times:		4
KIN 910	Advanced Seminar in Health Sciences	
KIN 909	Guided Teaching Experience in Health Sciences	3
KIN 703	Research Methods in Kinesiology (Or comparable course)	3
PH 801	Seminar in Public Health Research	3
Select a minimum of 6 credits from possible eligible courses which include, but are not limited to the following:		6
KIN 702	Statistical Analysis in the Health Sciences	
SOC WRK 961	Introduction to Statistical Methods	
SOC WRK 962	Applied Multiple Regression Analysis	
SOC WRK 963	Measurement Methods and Related Multivariate Statistics	
SOC WRK 964	Advanced Statistical Methods	
<b>Total Credits</b>		<b>19</b>

## Additional Requirements

### Major Professor as Advisor

The Graduate School requires that each doctoral student have a major professor to advise, supervise and approve the program of study before registering for courses. The major professor also serves as a research mentor, the chair of the dissertation committee, and chair of the committee hearing the dissertation defense. Each student will be assigned an advisor upon admission based on area of research interest. The major professor must have graduate faculty status.

### Area of Emphasis Curriculum

Students will propose an area of emphasis in consultation with their advisor and take an array of courses, offered within and outside the Kinesiology Program, that explore the main dimensions of that area. The academic area of specialization within Kinesiology will be identified prior to the student's entry into the program. The student's doctoral committee will be charged with reviewing their program of study to ensure that sufficient doctoral level coursework will be/has been completed.

### Cognate

The cognate area, within or outside Kinesiology, will complement the student's area of concentration (e.g., area of emphasis: Exercise Physiology; Cognate: Nutrition), and will be identified by the end of the first year of coursework. Coursework in the cognate may include classes offered within and/or outside the Kinesiology Program. As with the area of emphasis curriculum, the student's doctoral committee will be charged



with reviewing the program of study to ensure that sufficient doctoral level coursework will be/has been completed.

## Electives

Students will have the opportunity to broaden their knowledge by taking supplemental courses in teaching and learning, grantsmanship, manuscript preparation, professional development, and other areas that complement their program of study.

## Dissertation

The completion of a dissertation, consisting of original research, will be the final step in earning a Ph.D. in Kinesiology from the University of Wisconsin-Milwaukee.

In addition to formal coursework, students are required to successfully complete a preliminary examination, a dissertation proposal, and a dissertation defense. It is expected that this degree will take an average of four to five years for a full-time student to successfully complete.

## Preliminary Exam

After students successfully complete the required credits of didactic coursework in the Core, Area of Emphasis, and Cognate areas, the student will sit for the preliminary examination. The preliminary examination will assess the level of knowledge and understanding related to coursework taken in the area of emphasis, cognate area, as well as research methodology and statistics. Specifically, the purpose of the preliminary exam is to provide the student with an opportunity to demonstrate their current knowledge, and ability to apply and integrate knowledge gained in classes with the current body of literature and in their own research. The preliminary examination process must be successfully completed before a student can formally become a dissertator, and must be completed within five years of initial doctoral program enrollment.

The preliminary exam format includes choosing one of the following two options:

### Option One:

#### Area of Emphasis and Cognate Examination

One written exam where the student will not have access to notes or other materials. The exam will require students to demonstrate their understanding of fundamental ideas, theories, and/or concepts within their area of emphasis.

One written exam where the student will not have access to notes or other materials. The exam will require students to demonstrate their understanding of fundamental ideas, theories, and/or concepts within their cognate area of emphasis.

### Option Two:

#### Integrative Examination

The student will prepare a grant proposal (format approved by the doctoral committee) and orally defend their grant proposal to their doctoral committee. This written and oral exam will focus on a topic related to their area of emphasis, but not the student's primary dissertation research question. The topic must be agreed upon by the student and their committee. The Integrative examination will provide the student with an opportunity to demonstrate their ability to analyze, evaluate, and hypothesize on research and theory pertaining to a selected area of Kinesiology.

This format gives the student two options for Preliminary Exams. After consulting with the student, the faculty advisor will decide which of the two options the student will complete for their preliminary examination.

## Appeals Process

Any appeal (grades, preliminary exam decision, dissertation proposal decision, etc.) initiated by the student must follow the appropriate steps for appeals (<http://uwm.edu/graduateschool/appeals-exceptions/>) as outlined by the Graduate School.

## The Dissertation Process

### Dissertation Proposal and Proposal Hearing

Upon successful completion of the preliminary examinations, the student submits a written dissertation proposal to the doctoral committee and conducts a public oral presentation of the proposed research. Notification of the oral presentation will be provided to the Kinesiology Graduate Program Director ten business days (two calendar weeks) prior to the presentation, and will be publicly posted by the Kinesiology Graduate Program Director. Following completion of the dissertation proposal, the committee votes on whether to allow the student to move forward with the dissertation plan as proposed. Committee approval of the dissertation proposal establishes agreement on the plan and confirms that the student has adequate preparation to complete the dissertation research.

Per UWM Graduate School guidelines (<http://uwm.edu/graduateschool/doctoral-milestones/>), "Any significant changes to the dissertation as presented in the proposal hearing must be approved. A new proposal and proposal hearing are required."

### Dissertation

The dissertation is a major piece of original research representing a substantial contribution to the existing body of knowledge. The student's major professor and doctoral committee provide guidance in completing the dissertation. The final written document may follow a traditional or manuscript format.

- For dissertations following the traditional dissertation format, the formatting of the dissertation document will follow guidelines (<http://uwm.edu/graduateschool/thesis-dissertation-formatting/>) published by the UWM Graduate School and consist of an introduction, review of literature, method, results and discussion sections.
- For dissertations following the manuscript format, the dissertation document will follow guidelines (<http://uwm.edu/graduateschool/thesis-dissertation-formatting/>) published by the UWM Graduate School and consist of an introduction to the content area and line of research, two to four manuscripts, a summary of the impact of the current work on the existing body of literature, and an overall conclusion.

### Dissertation Defense

The student must present and defend the dissertation in a public forum. Notification of the dissertation defense will be provided to the Kinesiology Graduate Program Director ten business days (two calendar weeks) prior to the presentation, and will be publicly posted by the Kinesiology Graduate Program Director. Successful completion of the dissertation defense will require approval by a majority of doctoral committee members.

## Time Limit

In accordance with Graduate School policy, all degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

# Maternal and Child Health, Graduate Certificate

The Zilber College of Public Health offers a Certificate in Maternal and Child Health (MCH). The satisfactory completion of a sequence of courses will lead to a certificate in this national and global growing area. Preparation includes development of a strong foundation in MCH policy, programs, advocacy and interventions, and program planning and evaluation among other skills.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Application

- Students wishing to obtain this certificate must declare their intention by applying to the program office or director.
- All graduate certificate applicants—even those already enrolled in a UWM graduate program—must apply to the Graduate School through the Panthera Admission Application (<https://graduateschool-apply.uwm.edu/>).
- Graduate degree and previously admitted graduate non-degree students who decide to pursue a certificate program must submit the Panthera application before completing 6 credits in the certificate sequence.
- Applicants must possess a baccalaureate degree and have a minimum 2.75 cumulative undergraduate grade point average to be admitted into a certificate program.

## Credits and Courses

The certificate in Maternal and Child Health consists of 17-18 credits, with the following courses (or equivalents) required:

Code	Title	Credits
<b>Required Courses</b>		
PH 730	Overview of Children with Special Health Care Needs	3
PH 790	Field Experience in Public Health	1-2
PH 820	Maternal and Child Health Foundations, Policy and Practice	3
PH 830	Leadership and Advocacy in Maternal and Child Health	1
PH 831	Community Engagement and Participatory Research Approaches in Public Health	3
<b>Electives (see table below)</b>		<b>6</b>
<b>Total Credits</b>		<b>17-18</b>

## Electives

Code	Title	Credits
<b>Content Electives</b>		
Select one of the following courses:		
PH 708	Health Systems and Population Health	3
PH 725	Theories and Models of Health Behavior	3
PH 752	Public Health and Mental Health	3
PH 781	Public Health Administration	3
SOC WRK 630G	Families and Poverty	3
SOC WRK 771	Development of the Family Over the Life Span	3
SOC WRK 774	Trauma Counseling I: Theory and Research	3
SOC WRK 932	Theories and Research on Behavior Change	3
NURS 708	Global Maternal and Child Health: From Evidence to Action	3
NURS 763	Issues in Women's Health and Development	3
ED PSY 640G	Human Development: Theory and Research	3

### Applied Methods Electives

Select one of the following courses:

PH 702	Introduction to Biostatistics	3
PH 704	Principles and Methods of Epidemiology	3
PH 726	Community Health Assessment	3
PH 727	Program Planning & Implementation in Public Health	3
PH 728	Program Evaluation in Public Health	3
PH 729	Survey Research Methods in Public Health	3
PH 777	Quantitative Research Methods for Public Health Policy	3
PH 779	Public Health Policymaking and Policy Analysis	3
GEOG 726	Geographic Information Science	4
SOC WRK 750	Social Welfare Policy Development and Implementation	3

Other courses as approved by advisor.

Some of the courses required for the certificate (e.g. PH 704) may have prerequisite or other requirements that are not counted in the 17 credits. Additional MCH population focused electives may be allowed with permission from the program director.

Field experience (PH 790) requirements may vary based on student's background program, prior experience in MCH and permission from the program director. Students in the certificate program with two years of MCH public health experience in a government or non-profit setting will complete a one-credit practicum for 80 hours, while students with no experience will have a two-credit practicum, for 160 hours.

## Additional Requirements

### Transfer Credit

A minimum of 15 credits must be taken at UWM. Transfer courses to the MPH program do not double count for the certificate program. Relevant certificate course work may be applied towards the MPH degree.

### Grade Point Average Requirement

A minimum cumulative 3.00 grade point average in certificate courses taken at UWM is required.

### Articulation with Degree Programs

1. Credits and courses required for a certificate may double count toward meeting UWM graduate degree requirements subject to the following restrictions:
  - Degree programs must approve the courses from certificates that can double count toward the degree.
  - All credits taken in completion of certificate requirements may count towards a UWM graduate degree as long as they do not contribute more than 90% of the total credits needed to obtain the degree. (Note: Students in PhD programs must still complete the minimum residency requirements)
  - Certificate courses used toward meeting degree requirements must be completed within the time limit for transfer credit.
2. Courses completed for a degree may be counted toward a subsequent certificate, subject to all certificate policy requirements.
3. A course may count toward no more than one certificate and one degree.
4. Students may not earn a certificate subsequent to a concentration in the same area.

### Time Limit

Certificate program time limits shall be established as follows:

- 18 or fewer credits/Three years from initial enrollment in the certificate sequence.
- 19 or more credits/Four years from initial enrollment in the certificate sequence.

For certificates that are designed as add-ons to degree programs and are awarded concurrent with the degree, the time limit shall be the same as that of the degree program.

## Nutritional Sciences, BS

Interested in the wonderful world of nutrition and dietetics?  
You have come to the right place!

It may seem rather simplistic at first glance - eat a little more of this, a little less of that - but the field nutrition and dietetics is far more complex and multifaceted than first meets the eye (and stomach!). Nutrition is a science that investigates the body's metabolic and physiological responses to the food we consume and explores the role of food and nutrients in the development, treatment, and prevention of disease. It grapples with understanding and leveraging the web of factors that shape what, when, how much, where, and with whom we eat. **Nutrition professionals can positively impact the lives of others** in many different ways including facilitating dietary behavior change, enhancing the food environment, and expanding food and nutrition security and reducing hunger among individuals, groups, and communities.

The **BS Nutritional Sciences degree** is designed to provide you with a strong foundation in the biological and social sciences in order to understand, navigate, interpret, apply, and communicate **evidence-based relationships between food, nutrients, eating behavior, and human health**. Courses offered by Nutritional Sciences faculty and staff also **respect and honor the important role food and food-related traditions serve in a multicultural, diverse society**. Additionally, the Nutritional Sciences degree is structured to be **highly customizable** so that you can pursue a program of study that aligns with your interests and career goals with room to pursue a minor and/or certificate program to further enhance your UWM academic experience.

## Professional Titles/Credentials

The professional titles/credentials in the field of nutrition and dietetics include **Registered Dietitian (RD) or Registered Dietitian Nutritionist (RDN)** which requires at least a master's degree starting January 1, 2024, and **Nutrition & Dietetic Technician, Registered (NDTR)** which requires an associate degree or higher. You can earn these credentials by successfully completing a one (or more) programs accredited by the Accreditation Council for Education in Nutrition and Dietetics (<https://www.eatrightpro.org/acend/accredited-programs/about-accredited-programs/>) (ACEND) which include coursework and/or supervised practice, and then passing a national credentialing exam. Learn more about the various pathways to become an RDN or NDTR (<https://www.eatright.org/become-an-rdn-or-ndtr/>).

Although the BS Nutritional Sciences is not an ACEND-accredited program, your plan of study **can be customized to prepare you to apply to graduate-level dietetics programs including UWM's Master of Public Health (MPH) - Nutrition and Dietetics**. Most of the prerequisite courses required for admission to such programs are built directly into the degree. If you are interested in pursuing the RDN credential, **contact your advisor to add Pre-Dietetics to your undergraduate program of study**. More information can be found in the Pre-Dietetics section of the Catalog.

## Beyond Dietetics

The BS Nutritional Sciences is also a valuable undergraduate degree even if you are not interested in pursuing the RDN credential. Because of required foundational coursework in the natural and social sciences, combined with the rich array of nutritional sciences courses, **you will graduate ready to apply your knowledge and skills in many professional settings** including (but by no means limited to) health care, food and nutraceutical industries, community nutrition and public health organizations, and fitness/wellness companies. If you are interested in continuing their education beyond the bachelor's degree, **you will be well-positioned for graduate education in a wide-array of fields**, as well as for professional degree programs in public health, medicine, dentistry, pharmacy, and more!

## Want to get started in the Nutritional Sciences major or sample some courses in this dynamic, exciting field of study?

Consider enrolling in one or more of these introductory courses (no prerequisites required):

- **NUTR 101 New Student Seminar in Nutritional Sciences & Pre-Dietetics**. This 1-credit fall course will introduce you to the field of nutritional sciences and dietetics, career opportunities, and how to maximize your time studying this discipline at UWM.

- **NUTR 110 Introduction to Food Principles & Preparation.** This 3-credit hands-on course is offered every fall and spring semester in the Applied Foods Lab in Enderis Hall. You will build life skills related to food preparation all the while learning more about nutritional sciences through the science of food.
- **NUTR 230 Health Aspects of Exercise and Nutrition.** This 3-credit course will introduce you to key concepts related to personal physical fitness and healthy eating. If you are interested in learning about and improving your own fitness and eating behaviors, this is a great class to take. Plus it counts as a Natural Science GER!
- **NUTR 235 Introduction to Nutrition for the Health Professions.** Ready to dive into the science behind how the nutrients in food are used by the human body and affect its function? This 3-credit course will help you develop a solid foundation in this field!
- **NUTR 241 Why We Eat What We Eat: An Ecological Approach.** To facilitate dietary change, it is critical to understand what drives behavior. This 3-credit course offered in the fall and summer offers you the opportunity to "dig-in" to the complex array of influences - both seen and unseen - that shape an individual's food choices and eating behavior. Plus it counts as a Social Science GER!

Nutritional Sciences students are advised by Kelsi Faust in the Zilber College of Public Health. You are encouraged to contact Kelsi at 414-251-6070 or meyer378@uwm.edu for guidance.

Nutrition: it's for everyBODY.

## Requirements

All students must earn a minimum of 120 credits to complete the BS in Nutritional Sciences degree.

### University General Education Requirements (GER)

Many of the University General Education Requirements are satisfied through the foundations coursework and the Nutritional Sciences major requirements. All students are eligible to pursue general education requirements and foundations courses associated with the curriculum as long as they meet the necessary prerequisites for each course. The UWM General Education Requirements (p. 30) are:

Code	Title	Credits
<b>General Education Requirements</b>		
<i>Competency Requirements</i>		
	Oral and Written Communication (OWC) Part A	3
	Oral and Written Communication (OWC) Part B <sup>1</sup>	
	Quantitative Literacy (QL) Part A & B <sup>1</sup>	
	Foreign Language	
<i>Distribution Requirements</i>		
	Arts	3
	Humanities <sup>1</sup>	
	Natural Sciences <sup>1</sup>	
	Social Sciences <sup>1</sup>	
	Cultural Diversity <sup>1</sup>	

<sup>1</sup> Required courses in the curriculum satisfy these General Education Requirements.

## Nutritional Sciences Major Requirements

To fulfill the requirements for the Nutritional Sciences Major, students must complete the following: (a) University General Education Requirements, (b) Foundation Courses, (c) Nutritional Sciences Required Courses, (d) Upper Level (300- or above) Nutritional Sciences Elective Courses, and (e) Elective Courses.

Code	Title	Credits
<b>Foundation Courses <sup>1</sup></b>		
BIO SCI 150	Foundations of Biological Sciences I	4
BIO SCI 202	Anatomy and Physiology I	4
BIO SCI 203	Anatomy and Physiology II	4
CHEM 103	Survey of Biochemistry <sup>2</sup>	3-5
or CHEM 501	Introduction to Biochemistry	
PH 101	Introduction to Public Health	3
Select one of the following:		3
PH 202	Public Health from Cells to Society II <sup>2</sup>	
PH 302	Health and Disease: Concepts and Contexts	
PH 319	Introduction to Health Disparities	
PSYCH 101	Introduction to Psychology	3
or SOCIOL 101	Introduction to Sociology	
COMMUN 103	Public Speaking	3
KIN 270	Statistics in the Health Professions: Theory and Practice	3
KIN/BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
Cultural Diversity + Humanities (Choose a course that meets both GER categories)		3
MATH 105	Introduction to College Algebra	3
or MATH 108	Algebraic Literacy II	
Select one of the following:		3
ENGLISH 205	Business Writing	
ENGLISH 207	Health Science Writing	
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	
<b>Nutritional Sciences Courses</b>		
NUTR 101	New Student Seminar in Nutritional Sciences & Pre-Dietetics	1
NUTR 110	Introduction to Food Principles & Preparation	3
NUTR 230	Health Aspects of Exercise and Nutrition	3
NUTR 235	Introduction to Nutrition for the Health Professions	3
or BMS 232	Introduction to Nutrition	
NUTR 241	Why We Eat What We Eat: An Ecological Approach	3
NUTR 245	Life Cycle Nutrition	3
NUTR 305	Hunger at Home: Food and Nutrition Security in Milwaukee County	3
or NUTR 555	Public Health Nutrition and Food Politics	
NUTR 350	Nutrition Communication and Education	3
NUTR 355	Modifying Nutrition and Eating Behavior	3

NUTR 435	Nutrition and Disease Prevention	3
NUTR courses 300 level or above		6
NUTR 470	Nutritional Sciences Capstone Experience	3
<b>Electives (credits will vary by student) <sup>3</sup></b>		<b>41</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> Some courses listed in this section may also partially fulfill a student's General Education Requirements (p. 30).

<sup>2</sup> CHEM 103, CHEM 501, and PH 202 have one (or more) prerequisites that must be satisfied before enrolling.

<sup>3</sup> Students may select elective coursework that aligns with their interests, as well as educational and professional goals. The number of elective credits needed to meet the 120 credit requirement to be awarded the B.S. Nutritional Sciences degree will vary somewhat student to student depending upon the Chemistry sequence chosen.

## Program Retention and Graduation Requirements

Nutritional Sciences program faculty and staff are deeply committed to facilitating student success. Regular open, honest communication with the Program Advisor, Program Director, and Program faculty and staff is strongly encouraged and will help students succeed in the program.

Students must maintain a minimum cumulative GPA of 2.50 and earn a grade of C or better in all Nutritional Sciences (NUTR) courses counting towards degree requirements. Should the need arise, Nutritional Sciences (NUTR) courses counting towards degree requirements may be repeated once; no courses repeat restrictions are placed on other courses. If a student's cumulative UWM GPA falls below 2.50, they will be placed on academic probation and encouraged to meet with the Program Advisor to develop an action plan. Students who remain on academic probation for more than two consecutive semesters, or exceed the course repeat policy, will be dismissed from the major and advised about other potential degree options.

To graduate with a B.S. in Nutritional Sciences, students must:

1. Complete a minimum of 120 credits.
2. Complete all University General Education Requirements (p. 30).
3. Have earned credit in all required courses (including transfer courses) counting towards degree requirements.
4. Earn a minimum cumulative UWM GPA of 2.50 (including transfer courses) counting towards degree requirements.
5. Earn a grade of C or better in all NUTR courses (including transfer courses) counting towards degree requirements.
6. Complete the last 30 credits in residence at UWM.

The pursuit of a minor or certificate is encouraged and should easily integrate into a plan of study. Please consult with your advisor for guidance.

## Considerations for students interested in dietetics and becoming a Registered Dietitian Nutritionist (RDN)

UWM's BS Nutritional Sciences is not an ACEND-accredited Didactic Program in Dietetics. However, the program can prepare students to pursue an ACEND-accredited Graduate Program in dietetics (such as UWM's MPH-Nutrition and Dietetics program (p. 1379)) or graduate-level Coordinated Program in dietetics. Admission to such programs is competitive and admission requirements (including prerequisite

coursework) vary. Students should explore the specific admission requirements for any program they are interested in pursuing.

Students interested in dietetics are encouraged to add Pre-dietetics (p. 1361) to their undergraduate plan of study. Pre-dietetics (p. 1361) includes the prerequisite courses required for admission to UWM's MPH-Nutrition and Dietetics program (p. 1379); these courses are similar to the prerequisite courses required by other graduate-level programs in dietetics. Depending on the graduate program, additional prerequisite courses may be required for admission consideration. Most, but not all, of the Pre-dietetics (p. 1361) courses are required as part of the Nutritional Sciences major.

To maximize the likelihood of admission to a graduate program in dietetics, it is recommended that pre-dietetics students (p. 1361) strive to attain a 3.0 cumulative GPA (or higher) and 3.0 GPA (or higher), with no grade lower than C for any pre-dietetics courses. To maximize admissions eligibility to programs nationwide, students interested in this option are strongly advised to pursue the following chemistry sequence: CHEM 102, CHEM 104, CHEM 341 (lab recommended), and CHEM 501.

## Plan of Study

Two sample plans of study are shown below: a general plan and one that integrates Pre-dietetics. Both assume that the student will satisfy (1) UWM's foreign language requirements with high school credits, and (2) the math and English proficiency requirements upon entry. Students specifically interested in pre-dietetics should refer to the relevant section of the UWM Catalog (p. 1361) and contact the Program Director or Program Advisor for Plan of Study guidance.

### General Plan of Study

Year 1		Credits
<b>Semester 1</b>		
NUTR 101	New Student Seminar in Nutritional Sciences & Pre-Dietetics	1
NUTR 241 or NUTR 235	Why We Eat What We Eat: An Ecological Approach or Introduction to Nutrition for the Health Professions	3
BIO SCI 202	Anatomy and Physiology I	4
MATH 105 or MATH 108	Introduction to College Algebra or Algebraic Literacy II	3
GER - OWCA (ENGLISH 102 or equivalent)		3
<b>Credits</b>		<b>14</b>
<b>Semester 2</b>		
NUTR 230	Health Aspects of Exercise and Nutrition	3
PH 101	Introduction to Public Health	3
BIO SCI 203	Anatomy and Physiology II	4
CHEM 100	Chemical Science <sup>1</sup>	4
Cultural Diversity + Humanities		3
<b>Credits</b>		<b>17</b>
<b>Year 2</b>		
<b>Semester 1</b>		
NUTR 235 or NUTR 241	Introduction to Nutrition for the Health Professions or Why We Eat What We Eat: An Ecological Approach	3
CHEM 101	Chemical Science	5
BIO SCI 150	Foundations of Biological Sciences I	4
COMMUN 103	Public Speaking	3
<b>Credits</b>		<b>15</b>
<b>Semester 2</b>		
NUTR 110	Introduction to Food Principles & Preparation	3
NUTR 245	Life Cycle Nutrition	3
Select one of the following:		3

PH 202	Public Health from Cells to Society II	
PH 302	Health and Disease: Concepts and Contexts	
PH 319	Introduction to Health Disparities	
CHEM 103	Survey of Biochemistry	5
<b>Credits</b>		<b>14</b>
<b>Year 3</b>		
<b>Semester 1</b>		
NUTR 350	Nutrition Communication and Education	3
KIN 270	Statistics in the Health Professions: Theory and Practice	3
Select one of the following:		3
ENGLISH 205	Business Writing	
ENGLISH 207	Health Science Writing	
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	
PSYCH 101 or SOCIOL 101	Introduction to Psychology or Introduction to Sociology	3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Semester 2</b>		
NUTR 355	Modifying Nutrition and Eating Behavior	3
NUTR 435	Nutrition and Disease Prevention	3
KIN 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
GER - Art		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Semester 1</b>		
NUTR 305 or NUTR 555	Hunger at Home: Food and Nutrition Security in Milwaukee County <sup>2</sup> or Public Health Nutrition and Food Politics	3
300+ level NUTR Course		3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Semester 2</b>		
NUTR 470	Nutritional Sciences Capstone Experience	3
300+ level NUTR Course		3
Elective		3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> CHEM 100 is recommended prior to enrolling in CHEM 101 or CHEM 102. Multiple chemistry sequence options are available for this major. Consult the program director or program advisor for guidance on which would be best for your career goals.

<sup>2</sup> Students considering applying to UWM's MPH-Nutrition and Dietetics program are encouraged to take NUTR 305 during their undergraduate plan of study. NUTR 555 is a required course in the program and would need to be repeated at the graduate level.

## Recommended Plan for Pre-Dietetics (p. 1361) Students

Compared to the general plan of study, this one integrates a more rigorous chemistry sequence which will likely meet prerequisite requirements for most graduate programs in dietetics (UWM will accept CHEM 101/CHEM 103 or the sequence shown in the plan below). This plan also integrates two additional courses (i.e., introduction to microbiology and medical terminology) that are also often required for

admission to graduate programs in dietetics, including UWM's MPH-Nutrition and Dietetics program.

<b>Year 1</b>		
<b>Semester 1</b>		
NUTR 101	New Student Seminar in Nutritional Sciences & Pre-Dietetics	1
NUTR 241 or NUTR 235	Why We Eat What We Eat: An Ecological Approach or Introduction to Nutrition for the Health Professions	3
MATH 105 or MATH 108	Introduction to College Algebra or Algebraic Literacy II	3
BIO SCI 202	Anatomy and Physiology I	4
GER - OWCA (ENGLISH 102 or equivalent)		3
<b>Credits</b>		<b>14</b>
<b>Semester 2</b>		
NUTR 230	Health Aspects of Exercise and Nutrition	3
PSYCH 101 or SOCIOL 101	Introduction to Psychology or Introduction to Sociology	3
CHEM 100	Chemical Science	4
BIO SCI 203	Anatomy and Physiology II	4
Cultural Diversity + Humanities		3
<b>Credits</b>		<b>17</b>
<b>Year 2</b>		
<b>Semester 1</b>		
NUTR 110	Introduction to Food Principles & Preparation	3
NUTR 235 or NUTR 241	Introduction to Nutrition for the Health Professions or Why We Eat What We Eat: An Ecological Approach	3
PH 101	Introduction to Public Health	3
CHEM 102	General Chemistry	5
COMMUN 103	Public Speaking	3
<b>Credits</b>		<b>17</b>
<b>Semester 2</b>		
NUTR 245	Life Cycle Nutrition	3
CHEM 104	General Chemistry and Qualitative Analysis	5
BIO SCI 150	Foundations of Biological Sciences I	4
Select one of the following:		3
ENGLISH 205	Business Writing	
ENGLISH 207	Health Science Writing	
ENGLISH 310	Writing, Speaking, and Technoscience in the 21st Century	
<b>Credits</b>		<b>15</b>
<b>Year 3</b>		
<b>Semester 1</b>		
NUTR 305	Hunger at Home: Food and Nutrition Security in Milwaukee County	3
NUTR 350	Nutrition Communication and Education	3
CHEM 341	Introductory Survey of Organic Chemistry	3
CHEM 342	Introductory Organic Chemistry Laboratory	2
KIN 270	Statistics in the Health Professions: Theory and Practice	3
<b>Credits</b>		<b>14</b>
<b>Semester 2</b>		
NUTR 355	Modifying Nutrition and Eating Behavior	3
NUTR 435	Nutrition and Disease Prevention	3
CHEM 501	Introduction to Biochemistry	3
Select one of the following:		3
PH 202	Public Health from Cells to Society II	
PH 302	Health and Disease: Concepts and Contexts	
PH 319	Introduction to Health Disparities	
Elective		3
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Semester 1</b>		
300+ level NUTR Course		3

KIN 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective	3
BIO SCI 101	General Survey of Microbiology	4
GER-Art		3
Elective		3
<b>Credits</b>		<b>16</b>
<b>Semester 2</b>		
300+ level NUTR Course		3
NUTR 470	Nutritional Sciences Capstone Experience	3
HS 222	Language of Medicine	3
Elective		3
Elective		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>123</b>

## Honors in the Major

Honors in the major are granted to students who earn a GPA of 3.500 or above on a minimum of 30 completed credits at UWM.

## Zilber College of Public Health Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Nutritional Sciences, Minor

Students pursuing the Nutritional Sciences Minor will explore how the food and nutrients we ingest impact human functioning, growth, and development; the complex influences that shape food choice and eating behavior; and the connections between physical activity and exercise, food and eating, and health and well-being.

The Nutritional Sciences Minor is highly customizable to allow students from all undergraduate majors to meet their nutrition-related pre-professional and personal goals. Students may "choose their own adventure" by selecting courses that explore topics such as the science behind food preparation, nutrition through the lifecycle, nutrition and disease prevention, dietary behavior change, food insecurity and hunger, and many more!

Upon completing the Nutritional Sciences Minor, students will be able to:

- Describe the relationship between food and nutrients in human health and well-being;
- Discuss the function, physiology, dietary sources, and symptoms and consequences of deficiency and toxicity for macro- and micronutrients;
- Discuss how multiple levels of influence (e.g., intrapersonal, interpersonal, institutional/organizational, community, political, and cultural) shape food choice and eating behavior;
- Describe the role physical activity, physical fitness, and nutrition play in health maintenance and disease risk reduction.

## Requirements

The Nutritional Sciences minor requires a minimum of 21 credits, including at least 6 credits of upper-level NUTR courses (300-level or above). Students must attain a GPA of 2.0 (no grade lower than C) in all courses being applied toward the minor, including any transfer work. A minimum of 12 credits must be taken in residence at UWM.

Code	Title	Credits
<b>Required courses (9 credits)</b>		
NUTR 235	Introduction to Nutrition for the Health Professions <sup>1</sup>	3
or BMS 232	Introduction to Nutrition	
NUTR 230	Health Aspects of Exercise and Nutrition	3
or KIN 230	Health Aspects of Exercise and Nutrition	
NUTR 241	Why We Eat What We Eat: An Ecological Approach	3
<b>Complete 12 additional credits of NUTR courses including 6 credits at the 300-level or above</b>		<b>12</b>
<b>Total Credits</b>		<b>21</b>

<sup>1</sup> Only one of these options may be applied towards the minor.

Some NUTR courses may be offered only once per academic year. Refer to the Catalog to see which semester(s) courses are typically offered.

Students may declare their intent to pursue the Nutritional Sciences Minor via this online form ([https://milwaukee.qualtrics.com/jfe/form/SV\\_5BwAcywBIGk59rv/](https://milwaukee.qualtrics.com/jfe/form/SV_5BwAcywBIGk59rv/)). Students concurrently enrolled in a bachelor's degree program who successfully complete the requirements for the minor will be awarded the Minor in Nutritional Sciences at the time of graduation.

Student advising will be through the appropriate health unit at UWM.

## Pre-Athletic Training

Athletic trainers are health care professionals who provide physically active people services such as injury/illness prevention, emergency care, clinical diagnosis, therapeutic intervention, and rehabilitation of injuries and medical conditions. Athletic trainers care for people across the lifespan and activity levels, including youth athletes, professional athletes, performing artists, military or civil service personnel, and workers in physically demanding jobs. To become an athletic trainer students must complete a graduate degree in Athletic Training in a

program accredited by the Commission on Accreditation of Athletic Training Education (<https://caate.net/>) (CAATE).

Undergraduate students can follow one of two paths to pursue Athletic Training at UWM:

## Traditional Path

Students can complete an undergraduate degree and the prerequisite coursework for admission to the MS Athletic Training program (<https://uwm.edu/rehabilitation-sciences-technology/academics/ms-athletic-training/>). An undergraduate degree in Kinesiology (<https://uwm.edu/publichealth/academics/bs-kinesiology/>), the science of human movement, is ideal preparation for training in athletic training. UWM Kinesiology students take coursework in biomechanics, exercise physiology, motor behavior and control, and psychosocial aspects of human movement, which serve as important foundations for advanced training in the UWM MSAT program. Students also can explore the practical application of the scientific principles of human movement in correlate and elective coursework.

The UWM Master of Science in Athletic Training (<https://uwm.edu/rehabilitation-sciences-technology/academics/ms-athletic-training/>) (MSAT) is a graduate level professional program that prepares students to become credentialed Athletic Trainers. The MSAT program regularly hosts information sessions for undergraduate students. Students can learn more about the prerequisites for admission to the UWM MSAT program in this site: MSAT application and admissions procedure (<https://uwm.edu/rehabilitation-sciences-technology/academics/ms-athletic-training/>).

## Accelerated Path

Students interested in a more direct path may apply to the Accelerated BS Kinesiology / MS Athletic Training program (<https://uwm.edu/rehabilitation-sciences-technology/academics/accelerated-kinesiology-athletic-training/>) and complete their Bachelor's and Master's degree in 5 years. This program is for high performing students and entails completing 3 years as a Kinesiology undergraduate student and the moving into the MSAT program as a graduate student. At the end of the 4th year (the first in the MSAT program), the BS Kinesiology degree is conferred. Upon successful completion of years 4 and 5, students earn the MS in Athletic Training.

For additional information on either path towards Athletic Training, you may contact either of the program directors:

Christy Greenleaf, PhD ([cgreenl@uwm.edu](mailto:cgreenl@uwm.edu))

Professor, BS Kinesiology Program Director

Jennifer Earl-Boehm, PhD, ATC, FNATA ([jearl@uwm.edu](mailto:jearl@uwm.edu))

Associate Professor, MS Athletic Training Program Director

## Freshman Admission

### Traditional Path

Students are accepted to the College of Health Sciences BS Kinesiology degree program (<https://uwm.edu/healthsciences/academics/bs-kinesiology/>) as "Kinesiology Intended" and should select the designation "Pre-Athletic Training" when completing your application. Students must complete the admission to major requirements.

### Accelerated Path

Students are accepted to the College of Health Sciences as "Accelerated BS Kinesiology/MS Athletic Training (<https://uwm.edu/healthsciences/academics/accelerated-kinesiology-athletic-training/>) Intended" and should select the designation "Pre-Athletic Training" when completing your application. Students must complete the admission to major requirements.

Regardless of which path is chosen, students should regularly meet with their academic advisor to create a plan of study that will include all of the prerequisite courses needed for the athletic training graduate program. Students should maintain a cumulative GPA of 3.0 or higher to be competitive for admission to the MSAT through either the Traditional or Accelerated path.

## I'm a new student. How do I start?

You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) (<https://uwm.edu/studentorientation/>) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation "Pre-Athletic Training" added to your academic record.

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## Who is my advisor?

Undergraduate students who have declared an intent to pursue Pre-Athletic Training or the accelerated BS Kinesiology/MS Athletic Training are advised by Torry Rufer. Contact Torry at 414-229-2758 or [tjruferr@uwm.edu](mailto:tjruferr@uwm.edu).

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## When should I meet with my advisor?

Students are encouraged to meet with their advisor at least once per semester to ensure timely progress to graduation.

- **Enrolling for spring semester?**  
Schedule an appointment with your advisor in October or November.
- **Enrolling for fall semester?**  
Schedule an appointment with your advisor in March or April.

Students are also welcome to schedule an appointment with their advisor at any time to discuss academic challenges, career opportunities, or any other questions.

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## How can my advisor help me?

CHS boasts professional academic advisors who understand the challenges of balancing academics, work, family, and the social aspects of college life. Advisors partner with you to:

- Explore your academic and career interests
- Plan the sequence of your courses
- Prepare for course enrollment
- Access tutoring and other academic support
- Identify opportunities for campus involvement



- Connect you to campus resources
- Plan for graduation

## Contact Information

Pavilion, Suite 350

## Pre-Dietetics

Interested in pursuing an educational pathway leading to the Registered Dietitian Nutritionist (RDN) credential? You have come to the right place!

Registered Dietitians (RD) or Registered Dietitian Nutritionists (RDN) are specially-trained health professionals who use their expertise in food and nutrition to improve the health and well-being of individuals, groups, and communities. RD/RDNs utilize evidence-based practice to translate and leverage the science of nutrition to help others understand the connection between food and health, and provide tailored, practical guidance to meet their needs and goals. Because of this, the RD/RDN credential "unlocks" a wide array of unique career opportunities (<https://www.eatright.org/become-an-rdn-or-ndtr/>).

You can earn the RD/RDN credential by successfully completing an ACEND-accredited program(s) (<https://www.eatrightpro.org/acend/accredited-programs/about-accredited-programs/>) which includes coursework and supervised practice, and then passing a national credentialing exam. Beginning January 1, 2024, a graduate degree will be required in order to sit for the RDN credentialing exam. Learn more about the various pathways to become an RDN (<https://www.eatright.org/become-an-rdn-or-ndtr/>) here.

### Pre-Dietetics at UWM is a set of courses commonly required for admission to ACEND-accredited graduate-level programs in dietetics.

Most Pre-Dietetics courses are integrated into the BS in Nutritional Sciences - making it an efficient option for students interested in pursuing the RDN credential. However, Pre-Dietetics can be combined with any undergraduate major. More information about Pre-Dietetics courses can be found in the **Requirements** tab.

By declaring your interest in pursuing Pre-Dietetics, UWM advisors will be able to provide you with appropriate academic and pre-professional guidance. More information about how to declare Pre-Dietetics can be found in the **Advising** tab.

## Now available at UWM: Master of Public Health (MPH) - Nutrition and Dietetics Future Education Model Graduate Program

The University of Wisconsin-Milwaukee's MPH-Nutrition and Dietetics program has been granted candidate status\* by the Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics (<http://www.eatrightpro.org/ACEND/>) (120 South Riverside Plaza, Suite 2190, Chicago, IL 60606-6995, (312) 899-0040 ext. 5400).

UWM's MPH-Nutrition and Dietetics program has been designed to align with ACEND's® Future Education Model Accreditation Standards for Graduate Programs in Nutrition and Dietetics. These accreditation standards require the integration of didactic coursework with supervised experiential learning in a competency-based curriculum designed to prepare students for careers as registered dietitian nutritionists (RDNs).

More information (including admission requirements) can be found on the MPH-Nutrition and Dietetics program webpage.

\* A new program that has been determined to be eligible to enroll students or accepting interns as the result of an on-site evaluation visit but has not had a graduating class may be granted candidate status. The granting of candidate status denotes a developmental program, which is expected to mature in accord with stated plans and within a defined time period. Reasonable assurances are expected to be provided that the program may become accredited as programmatic experiences are gained, generally, by the time the first class has graduated. Graduates of a class designated as having candidate status have the same rights and privileges as graduates of an accredited program.

## Requirements

If you are considering pursuing an academic pathway to the Registered Dietitian Nutritionist (RDN) credential, it is highly encouraged that you enroll in NUTR 101 New Student Seminar in Nutritional Sciences & Pre-Dietetics (Fall only; 1 credit) as early as possible.

Many graduate-level dietetics programs (including UWM's program) will consider students with a bachelor's degree in any field of study if certain prerequisite coursework for admission is completed. UWM's BS Nutritional Sciences degree (<https://catalog.uwm.edu/public-health/nutritional-sciences-bs/>) can be customized by adding Pre-Dietetics to prepare you to apply for UWM's Master of Public Health – Nutrition and Dietetics program (<https://catalog.uwm.edu/public-health/nutrition-dietetics-mph/>) along with many other ACEND-accredited programs (<https://www.eatrightpro.org/acend/accredited-programs/program-directory/>) in dietetics.

Commonly required prerequisite coursework ("Pre-Dietetics" at UWM) for graduate-level dietetics programs includes:

- Introduction to nutrition (NUTR 235 OR BMS 232)
- Introduction to food/food science with lab (NUTR 110)
- Lifecycle nutrition (NUTR 245)
- General biology (BIO SCI 150)
- Microbiology (BIO SCI 101)
- Anatomy & physiology (2 semesters; BIO SCI 202 & BIO SCI 203)
- Chemistry sequence culminating in biochemistry
  - CHEM 101 & CHEM 103 OR
  - CHEM 102, CHEM 104, CHEM 341, & CHEM 501
    - Many programs require a chemistry sequence similar to the one above (2 semesters of general chemistry, 1-2 semesters of organic chemistry, and 1 semester of biochemistry). If you'd like to maximize your eligibility to apply to a number of dietetic programs, the lengthier chemistry sequence is strongly recommended.
- Introduction to psychology or sociology (PSYCH 101 OR SOCIOL 101)
- Public speaking (COMMUN 103)
- College algebra (MATH 105 OR MATH 108)
- Medical terminology (HS 222)
- Statistics (KIN 270 OR MTHSTAT 215)
- Study of diverse populations/cultural diversity (many options available at UWM)

Admission to graduate-level dietetics programs is competitive so try and earn the highest grades you can in the prerequisite coursework (e.g.,

C or better) and strive for a high cumulative GPA. Specific **prerequisite courses and admissions requirements vary (particularly chemistry coursework requirements) from program to program** so carefully research each ACEND-accredited program (<https://www.eatrightpro.org/acend/accredited-programs/about-accredited-programs/>) you are considering.

There is no hiding the fact that pursuing a degree in nutritional sciences and dietetics requires you to take several science courses that may be quite challenging – particularly biology and chemistry. However, you do not have to be a rockstar in these disciplines to pursue a career in this field. The world of nutrition and dietetics offers many career options that suit those individuals whose strengths lie in the areas of public health, social science, education, communication, and more.

For more information, contact:

- Lori Klos, PhD, RDN, MPH-Nutrition and Dietetics Program Director, Nutritional Sciences Undergraduate Program Director, lklos@uwm.edu, 414-251-8220
- Kelsi Faust, MS, Academic Advisor, meyer378@uwm.edu, 414-251-6070

## I'm a new student. How do I start?

You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) (<https://uwm.edu/studentorientation/>) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM. If you are considering pursuing the Registered Dietitian Nutritionist (RDN) credential, you should ask to have the designation "Pre-Dietetics" added to your academic record as soon as possible. This will help UWM advising staff better tailor their recommendations to your academic and professional goals.

Consider enrolling in UWM's NUTR 101 New Student Seminar in Nutritional Sciences & Pre-Dietetics offered every fall to learn more about this exciting field of study.

## Who is my advisor?

Undergraduate students who have declared an intent to pursue Pre-Dietetics are advised by Kelsi Faust. Contact Kelsi at 414-251-6070 or meyer378@uwm.edu.

Students who wish to learn more about Pre-Dietetics and/or pathways leading to the RDN credential are also encouraged to contact Kelsi Faust or Lori Klos, MPH-Nutrition and Dietetics Program Director, Nutritional Sciences Undergraduate Program Director (414-251-8220, lklos@uwm.edu).

## When should I meet with my advisor?

As soon as you decide to declare Pre-Dietetics, reach out to Kelsi Faust as soon as possible for initial guidance. After that, you are encouraged to meet with your advisor at least once per semester to ensure timely progress to graduation.

- **Enrolling for spring semester?**  
Schedule an appointment with your advisor in October or November.

- **Enrolling for fall semester?**  
Schedule an appointment with your advisor in March or April.

You are also welcome to schedule an appointment with your advisor at any time to discuss academic challenges, career opportunities, or any other questions.

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## How can my advisor help me?

The Zilber College of Public Health has professional academic advisors who understand the challenges of balancing academics, work, family, and the social aspects of college life. Advisors partner with you to:

- Explore your academic and career interests
- Plan the sequence of your courses
- Prepare for course enrollment
- Access tutoring and other academic support
- Identify opportunities for campus involvement
- Connect you to campus resources
- Plan for graduation
- Prepare for admission to graduate programs

## Pre-Physical Therapy

### Students Interested in Physical Therapy

Physical therapy is an integral and unique component of the healthcare system. As a health profession, physical therapy focuses on the neuromuscular, musculoskeletal, integumentary, and cardiopulmonary systems of the human body as they relate to human motion and function. Human movement and the ability to interact physically with one's environment are essential components of physical, emotional, and social well-being. The physical therapist is dedicated to promoting health, preventing disease, improving quality of life, and rehabilitating individuals disabled by injury or disease.

To practice as a Physical Therapist, the American Physical Therapy Association (<https://www.apta.org/>) (APTA) requires that students complete a Doctor of Physical Therapy (DPT) degree through an accredited program and pass the national licensure examination. Students should first complete a bachelor's degree and meet the pre-requisites for admission to a DPT program. Information about applying to DPT programs can be found in the Requirements tab. The UWM DPT (<https://uwm.edu/rehabilitation-sciences-technology/academics/dr-physical-therapy/>) program hosts regular information sessions for undergraduate students. The DPT program is a three-year professional doctorate program beyond the bachelors degree.

An undergraduate degree in Kinesiology (<https://uwm.edu/publichealth/academics/bs-kinesiology/>), the science of human movement, is ideal preparation for training in physical therapy. All UWM DPT prerequisites are included in the course of study. Kinesiology students take coursework in biomechanics, exercise physiology, motor behavior and control, and psychosocial aspects of human movement, which serve as important foundations for advanced training in a DPT program. Students can also explore the practical application of the scientific principles of human movement in correlate and elective coursework.

Inquiries about the DPT program itself should be sent to pt-program@uwm.edu.

**John Holland**, MS, Program Director, Kinesiology Undergraduate Program

Wendy Huddleston (huddlest@uwm.edu), PT, PhD, Program Director,  
Doctor of Physical Therapy

## Admission

**Admission to a DPT program is competitive.** As with most DPT programs in the country, application to the UWM DPT program occurs through PTCAS (<http://www.ptcas.org/home.aspx>), which is a centralized admissions system. Completion of UWM's Kinesiology Bachelor of Science degree (<https://uwm.edu/publichealth/academics/bs-kinesiology/>) is good preparation but does not guarantee admission to UWM's DPT program. Also, be aware of the admission requirements for each individual DPT program as they do vary. Information about preparing for DPT is available in this document: Preparing to Apply for Admission to a Physical Therapy Program (<https://uwm.edu/rehabilitation-sciences-technology/academics/dr-physical-therapy/#tab-plog-admissionerapy/#tab-plog-admission>).

### UWM DPT application requirements (<https://uwm.edu/rehabilitation-sciences-technology/academics/dr-physical-therapy/#tab-plog-admission>) include:

- Completion of an undergraduate degree from an accredited institution with an overall cumulative grade point average above 3.0 (on a 4.0 scale)
- Completion of 10 prerequisite courses with a minimum prerequisite grade point average above 3.0 (on 4.0 scale)
  - Refer to DPT program website (<https://uwm.edu/rehabilitation-sciences-technology/academics/dr-physical-therapy/>) for list of prerequisite courses
- GRE scores (taken within the last five years)
- Completion of at least 40 total hours of clinical observation experiences in both inpatient and outpatient settings under the supervision of a licensed physical therapist
- Two letters of recommendation (one academic)
- Responses to narrative essay questions

## I'm a new student. How do I start?

You are assigned an academic advisor upon admission to UWM. New Student Orientation (NSO) (<https://uwm.edu/studentorientation/>) helps those who are new to campus learn and understand the enrollment process and enroll in classes for their first semester at UWM! You should ask to have the designation "Pre-Physical Therapy" added to your academic record.

## Who is my advisor?

Undergraduate students who have declared an intent to pursue Pre-Physical Therapy are advised by Torry Rufer. Contact Torry at 414-229-2758 or [tjruferr@uwm.edu](mailto:tjruferr@uwm.edu).

## When should I meet with my advisor?

Students are encouraged to meet with their advisor at least once per semester to ensure timely progress to graduation.

- **Enrolling for spring semester?**  
Schedule an appointment with your advisor in October or November.
- **Enrolling for fall semester?**  
Schedule an appointment with your advisor in March or April.

Students are also welcome to schedule an appointment with their advisor at any time to discuss academic challenges, career opportunities, or any other questions.

## How can my advisor help me?

CHS boasts professional academic advisors who understand the challenges of balancing academics, work, family, and the social aspects of college life. Advisors partner with you to:

- Explore your academic and career interests
- Plan the sequence of your courses
- Prepare for course enrollment
- Access tutoring and other academic support
- Identify opportunities for campus involvement
- Connect you to campus resources
- Plan for graduation

## Public Health, BS

**Do you want to be a change agent for the public's health?** Public health at UWM is your home to learn, connect, and make a difference.

Public health improves the health of people and the communities where they grow, live, work, play, and age. Instead of treating individual patients, public health practitioners work in and with communities to prevent disease before it starts. We strive to ensure that every person and community can reach their highest level of health and well-being.

**Find yourself in public health!** When you choose the Public Health major at UWM, you will:

- **Learn and live** public health in Milwaukee's diverse and dynamic communities.
- **Jumpstart your career** with 120 hours of field placement with our community partners.
- **Learn** from top instructors at Wisconsin's only accredited school dedicated to public health.
- **Create** a world that is **socially just and a healthy** place for all.

The BS in Public Health at UWM provides students with real-world knowledge, skills, and experiences – both in the classroom and the community – to be a positive force for change. With the Public Health major, you will learn how to diagnose, analyze, and solve a range of public health challenges.

**Job prospects** for public health graduates **are excellent**. Trained public health professionals are needed in Wisconsin and nationally to address a shortage of skilled public health workers.

Our graduates are equipped to enter public health and related careers in a wide variety of settings, including local and state government agencies, healthcare organizations, for-profit organizations, academic institutions, and non-profits.

**What's your passion? *There is a public health career for you!***

- **Sociology and psychology?** You'll excel in community health and health promotion.
- **Political science and government?** Pursue a career in policy and advocacy.
- **Math and numbers?** You'll find your niche in data analysis and biostatistics.
- **Discovering causes of disease?** Your perfect career path could be epidemiology and disease prevention.
- **Biology and ecology?** Make an impact in environmental health.

Our 120-credit program includes general education foundations, Public Health major courses, **and 27-33 elective credits tailored to your interests and career goals.** The electives allow you to combine the BS in Public Health degree with specialization in one of UWM's many certificates ([https://catalog.uwm.edu/programs/#filter=filter\\_26&filter\\_19](https://catalog.uwm.edu/programs/#filter=filter_26&filter_19)) or minors ([https://catalog.uwm.edu/programs/#filter=filter\\_46](https://catalog.uwm.edu/programs/#filter=filter_46)) of your choice.

**We welcome transfer students!** To learn how to transfer credits from another university to UWM and the BS in Public Health program, reach out to the Zilber College of Public Health undergraduate advising (<https://uwm.edu/publichealth/students/undergraduate-advising/>).

We also offer an accelerated Master of Public Health (MPH) degree (p. 1367) with four areas of specialization. This program allows high achieving undergraduates to save time and money by **completing their bachelor's and master's degree in public health in only 5 years!**

We want to hear from you! Email [bs-ph@uwm.edu](mailto:bs-ph@uwm.edu) to learn more about the BS in Public Health degree.

## Requirements

Students must earn a minimum of 120 credits to complete the BS in Public Health degree.

Code	Title	Credits
	University General Education Requirements (GER)	0-20
	Foundations	33
	Public Health Major Requirements	54
	Electives, including certificate or minor	27-33
	<b>Minimum credits to degree</b>	<b>120</b>

### University General Education Requirements (GER)

Most of the University General Education Requirements (p. 30) are more than satisfied through the foundations coursework and the public health major requirements. All students should work with their public health advisor to ensure they meet all GER.

Code	Title	Credits
	<b>Competency Requirements</b>	
	Oral and Written Communication (OWC) Part A	0-3
	Oral and Written Communication (OWC) Part B (satisfied through foundations coursework)	3
	Quantitative Literacy (QL) Part A (Math 102, Math 105 or Math 108 recommended)	0-3
	Quantitative Literacy (QL) Part B (satisfied through major coursework)	3
	Foreign Language	0-8

### Distribution Requirements (satisfied through foundations and major coursework)

Arts (GER-A)	3
Humanities (GER-HU)	6
Natural Sciences (GER-NS and GER-NS+)	6
Social Sciences (GER-SS)	6
Cultural Diversity (GER-CD)	3

New freshmen may require additional prerequisite coursework as a result of their English and math placement levels (<https://uwm.edu/onestop/enrolling/before-you-enroll/freshman-placement-testing/>). Credit for prerequisite academic work may not count towards the BS in Public Health degree.

### Foundations

Code	Title	Credits
	<i>Academic and Professional Writing</i>	
ENGLISH 201	Strategies for Academic Writing (satisfies OWCB)	3
	Select one of the following:	3
ENGLISH 207	Health Science Writing <sup>1</sup>	
ENGLISH 214	Writing in the Professions:	
	<i>Arts and Cultural Diversity (all courses listed satisfy GER-A and GER-CD)</i>	
	Select one of the following:	3
ART 100	American Art and Culture	
ART 150	Multicultural America <sup>1, 2</sup>	
ART 309	Issues in Contemporary Art: (prerequisite)	
DANCE 122	African Dance & Diaspora Technique I	
FILM 150	Multicultural America <sup>1, 2</sup>	
THEATRE 150	Multicultural America: <sup>1, 2</sup>	
	Other GER-A course approved by Zilber School academic advisor	
	<i>Communication/Public Speaking (satisfies GER-HU)</i>	
COMMUN 103	Public Speaking	3
	<i>Humanities (all courses listed satisfy GER-HU; some also satisfy GER-CD)</i>	
	Select one of the following:	3
AFRIC 100	Black Reality: Survey of African-American Society (HU, CD)	
AFRIC 102	Survey of African-American Literature (HU, CD)	
ENGLISH 150	Multicultural America (HU, CD) <sup>2</sup>	
ED POL 460	The Chicano Experience (HU, CD)	
ETHNIC 101	The Multi-Racial Origins of American Cultures (HU, CD)	
ETHNIC 275	Queer Migrations (HU, CD)	
HIST 150	Multicultural America (HU, CD) <sup>2</sup>	
HIST 229	History of Race, Science, and Medicine in the United States (HU, CD) <sup>3</sup>	
LGBT 200	Introduction to Lesbian, Gay, Bisexual, and Transgender Studies (HU)	
WGS 150	Multicultural America (HU, CD) <sup>1, 2</sup>	

WGS 201	Introduction to Women's and Gender Studies: A Humanities Perspective (HU)	
Any other 3 credit course that meets both GER-HU and GER-CD		
Other humanities course approved by Zilber School academic advisor		
<i>Historical Perspectives (satisfy GER-HU, GER-SS, and/or GER-CD)</i>		
Select one of the following:		3
AFRIC 112	Introduction to African-American History, 1865 to the Present (HU, CD)	
AIS 203	Western Great Lakes American Indian Community Life of the Past (SS, CD)	
AIS 262	North American Indian History to 1887 (SS, CD)	
AIS 263	North American Indian History Since 1887 (SS, CD)	
HIST 132	World History Since 1500 (HU)	
HIST 151	American History: 1607 to 1877 (SS)	
HIST 152	American History: 1877 to the Present (SS)	
HIST 176	East Asian Civilization Since 1600 (HU)	
HIST 229	History of Race, Science, and Medicine in the United States (HU, CD) <sup>1,3</sup>	
HIST 282	The Modern Middle East in the Nineteenth and Twentieth Centuries (HU)	
HMONG 265	Hmong Americans: History, Culture, and Contemporary Life (SS, CD)	
Other history course approved by Zilber School academic advisor		
<i>Ethics</i>		
Select one of the following:		3
PHILOS 241	Introductory Ethics (HU)	
PHILOS 243	Moral Problems: (HU - Must take 3 topics; topics include Abortion, Bioethics, Contemporary Problems, Drugs and Addiction, Euthanasia, Immigration and Citizenship) <sup>4</sup>	
PHILOS 244	Ethical Issues in Health Care: (HU)	
PHILOS 337	Environmental Ethics (prereq jr st)	
Other ethics course approved by Zilber School academic advisor		
<i>Natural Science</i>		
BIO SCI 102	Elements of Biology (satisfies GER-NS with lab)	3
Other biology course approved by Zilber School academic advisor		
<i>Political Science (all courses listed satisfy GER-SS)</i>		
Select one of the following:		3
POL SCI 104	Introduction to American Government and Politics	
POL SCI 175	Introduction to International Relations	
POL SCI 210	American Public Policy <sup>1</sup>	
Other political science course approved by Zilber School academic advisor		
<i>Behavioral Science (all courses listed satisfy GER-SS)</i>		

Select one of the following:		3
HCA 203	Human Life Cycle (prereq soph st)	
PH 306	Adolescent Health & Development (see prereqs)	
PSYCH 101	Introduction to Psychology	
SOCIOL 104	Introduction to Social Psychology	
Other behavioral science course approved by Zilber School academic advisor		
<i>Social Inequality (nearly all courses satisfy GER-SS; some also satisfy GER-CD)</i>		
Select one of the following:		3
AIS 101	Introduction to American Indian Studies (SS, CD)	
GEOG 114	Geography of Race in the United States (SS, CD) <sup>1</sup>	
LATINX 101	Introduction to Latino Studies (SS, CD)	
SOCIOL 102	Solving Social Problems (SS)	
SOCIOL 224	Race and Ethnicity in the United States (SS, CD; prereq soph st)	
SOCIOL 233	Social Inequality in the United States (SS; prereq soph st)	
SOCIOL 250	Sex and Gender (SS; prereq soph st)	
SOCIOL 255	Sociology of Sexuality (SS; prereq soph st)	
URBPLAN 141	Urban Planning Solutions to Contemporary Urban Problems (SS)	
URB STD 150	Multicultural America (SS, CD) <sup>1,2</sup>	
URBPLAN 350	Social Justice, Urban Planning and the New Multicultural America (CD)	
WGS 200	Introduction to Women's and Gender Studies: A Social Science Perspective (SS)	
Other social inequality course approved by Zilber School academic advisor		

**Total Credits 33**

<sup>1</sup> Recommended selection.  
<sup>2</sup> Has service learning component.  
<sup>3</sup> HIST 229 may only count for one Foundations category.  
<sup>4</sup> 1 credit course; must take three separate topics for 3 credits total.

### Public Health Major Requirements

Code	Title	Credits
PH 101	Introduction to Public Health (GER-SS)	3
PH 142	Exploring Global Environmental Health	3
PH 201	Public Health from Cells to Society I	3
PH 202	Public Health from Cells to Society II	3
KIN 270	Statistics in the Health Professions: Theory and Practice (QLB) <sup>5</sup>	3
or SOCIOL 261	Introduction to Statistical Thinking in Sociology	
PH 302	Health and Disease: Concepts and Contexts	3
PH 304	Foundations of Epidemiology	3

PH 303	Climate Change, the Environment and Human Health (GER-NS)	3
PH 319	Introduction to Health Disparities	3
PH 327	Foundations for Action in Public Health	3
PH 346	Environmental Health and Disease	3
PH 355	Public Health Research Methods I	3
PH 408	Comparative Health Systems: A Social Determinants Approach	3
PH 410	True Lies: Consuming and Communicating Quantitative Information	3
PH 427	Strategies for Action in Public Health	3
PH 428	Program Implementation & Evaluation for a Healthy Society	3
PH 455	Public Health Research Methods II	3
PH 600	Public Health Integrative Experience (Service Learning)	3
<b>Total Credits</b>		<b>54</b>

<sup>5</sup> Select QLB course substitutions allowed - please see your public health academic advisor.

## Electives

With the help of their academic advisor, students will select electives to complete the 120 total credits required for the degree. Electives are tailored to each student's interests and career goals. Students may choose a related area of specialization outside of the Zilber College by completing any minor ([https://catalog.uwm.edu/programs/#filter=filter\\_46](https://catalog.uwm.edu/programs/#filter=filter_46)) or interdisciplinary certificate ([https://catalog.uwm.edu/programs/#filter=filter\\_26&filter\\_19](https://catalog.uwm.edu/programs/#filter=filter_26&filter_19)) offered by UWM, typically comprised of 18-22 credits. In some cases, students may choose to study two related areas, or they may complement a certificate or minor with other courses of interest.

## Certificates or Minors

Certificates of potential interest to public health students include, but are not limited to: Community Arts, Community Engagement Strategies, Community Leadership, Comparative Ethnic Studies, Cultures and Communities, Food Studies, Global Health, Healthy Aging, Lesbian, Gay, Bisexual, and Transgender (LGBT) Studies, Quantitative Social Data Analysis, Spanish for Health Professionals, Urban Planning, and Urban Studies.

Minors of potential interest to public health students include, but are not limited to: Community Engagement, Geographic Information Science, Geography, Global Studies, Health Care Administration, International Studies, Mathematics (Statistics), Nutritional Sciences, and Women's and Gender Studies.

## Degree and Graduation Requirements

A minimum of 120 semester credits is required to complete the BS in Public Health degree. A cumulative GPA of 2.25 or greater, including transferable credits and all credits earned at UWM, is required for graduation. Students must also maintain an average GPA of 2.5 in all public health major courses required for graduation (54 credits total).

If, during the program, a student falls below these minimum GPA requirements, the student will be placed on academic probation. A

student who remains on probation for more than two consecutive semesters will be dismissed from the major.

Students who earn a D+ or lower in any public health major course required for graduation (54 credits) must repeat the course and earn at least a C-. Courses required for the BS in Public Health degree may be repeated only **once**. Students who twice earn a grade lower than these requirements will be dismissed from the public health major.

Students who are struggling in their courses for any reason are encouraged to access retention services available in the Zilber College of Public Health.

## Plan of Study

Year 1		
Semester 1		Credits
PH 101	Introduction to Public Health	3
Select one of the following:		3
MATH 102	Mathematical Literacy for College Students II	
MATH 105	Introduction to College Algebra (QLA)	
MATH 108	Algebraic Literacy II (QLA)	
ENGLISH 102	College Writing and Research	3
BIO SCI 102	Elements of Biology (NS+)	3
COMMUN 103	Public Speaking	3
<b>Credits</b>		<b>15</b>
Semester 2		
PH 142	Exploring Global Environmental Health	3
ENGLISH 201	Strategies for Academic Writing	3
PSYCH 101	Introduction to Psychology (Behavioral Science Foundations*, SS)	3
Elective (Certificate/Minor)		3
Social Inequality Foundations*		3
<b>Credits</b>		<b>15</b>
Year 2		
Semester 3		
PH 201	Public Health from Cells to Society I	3
ENGLISH 207	Health Science Writing (OWCB)	3
or ENGLISH 214	or Writing in the Professions:	
Historical Perspectives Foundations*		3
Political Science Foundations*		3
Elective (Certificate/Minor)		3
<b>Credits</b>		<b>15</b>
Semester 4		
PH 202	Public Health from Cells to Society II	3
Humanities Foundations* (HU/CD)		3
KIN 270	Statistics in the Health Professions: Theory and Practice	3
or SOCIOL 261	or Introduction to Statistical Thinking in Sociology	
Elective (Certificate/Minor)		3
Elective (Certificate/Minor)		3
<b>Credits</b>		<b>15</b>
Year 3		
Semester 5		
PH 327	Foundations for Action in Public Health	3
PH 355	Public Health Research Methods I	3
Elective (Certificate/Minor)		3
PH 304	Foundations of Epidemiology	3
Ethics Foundations		3
<b>Credits</b>		<b>15</b>
Semester 6		
PH 319	Introduction to Health Disparities	3
PH 427	Strategies for Action in Public Health	3
PH 455	Public Health Research Methods II	3

Elective (Certificate/Minor)		3
PH 410	True Lies: Consuming and Communicating Quantitative Information	3
<b>Credits</b>		<b>15</b>
<b>Year 4</b>		
<b>Semester 7</b>		
PH 408	Comparative Health Systems: A Social Determinants Approach	3
PH 303	Climate Change, the Environment and Human Health	3
PH 428	Program Implementation & Evaluation for a Healthy Society	3
Elective (Certificate/Minor)		3
Elective (Certificate/Minor)		3
<b>Credits</b>		<b>15</b>
<b>Semester 8</b>		
PH 302	Health and Disease: Concepts and Contexts	3
PH 346	Environmental Health and Disease	3
PH 600	Public Health Integrative Experience (Service Learning)	3
Arts and Cultural Diversity Foundations* (ART/CD)		3
Elective (Certificate/Minor)		3
<b>Credits</b>		<b>15</b>
<b>Total Credits</b>		<b>120</b>

\*Course options for BSPH Foundations (p. 1364)

## Core Competencies

The BS in Public Health program has 15 core competencies designed to meet Council on Education for Public Health (CEPH) accreditation requirements. Graduates of the Public Health major will be able to:

1. Explain the importance of respect for diverse values, beliefs, cultures, and the dignity of individuals and communities in public health practice;
2. Explain the history and philosophy of public health, including its core values, theories, concepts, and functions in society;
3. Collect and analyze public health data using fundamental quantitative and qualitative methods and instruments;
4. Locate and evaluate primary scientific literature and other information sources (e.g., media) to inform evidence-based public health approaches;
5. Outline evidence-based approaches—using data, assessment, and evaluation—to address public health problems;
6. Explain why and how public health professionals should ethically engage in interactions with study/program participants, community (partners and stakeholders), and others to address population health and health equity;
7. Develop advocacy strategies for multi-level social policies and interventions to promote population health;
8. Assess the advantages and disadvantages of health promotion interventions for specific populations;
9. Discuss ethical social, ecological, political, and community approaches to public health dilemmas;
10. Explain the natural history of human health and disease, their biological and environmental origins, distribution among populations, and strategies for their prevention, management, and control;
11. Explain the interrelationship between hazards in the natural and built environment, and human and population health;
12. Explain multilevel and ecosocial pathways through which social, economic, legal, and political structures and systems affect population health and health inequities across the lifecourse;
13. Interpret environmental, regulatory, legal, and economic structures, as well as their interactions, within communities and health systems from the perspective of social justice and human rights;
14. Apply fundamental concepts and features of public health interventions and programs, including their planning, implementation, assessment, and evaluation; and
15. Communicate public health evidence and concepts to diverse audiences using a variety of modalities and media.

## Admission to the School of Public Health

Students who meet the standard University admission requirements are admissible to the College of Public Health. For undergraduate admission requirements, see the Admission (p. 15) section of this catalog.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Zilber College of Public Health Dean's Honor List

GPA of 3.750 or above, earned on a full-time student's GPA on 12 or more graded credits in a given semester.

## Honors College Degree and Honors College Degree with Distinction

Granted to graduating seniors who complete Honors College requirements, as listed in the Honors College (p. 819) section of this site.

## Commencement Honors

Students with a cumulative GPA of 3.500 or above, based on a minimum of 40 graded UWM credits earned prior to the final semester, will receive all-university commencement honors and be awarded the traditional gold cord at the December or May Honors Convocation. Please note that for honors calculation, the GPA is **not** rounded and is truncated at the third decimal (e.g., 3.499).

## Final Honors

Earned on a minimum of 60 graded UWM credits: Cum Laude - 3.500 or above; Magna Cum Laude - 3.650 or above; Summa Cum Laude - 3.800 or above.

## Public Health, MPH/Social Work, MSW

The Zilber College of Public Health and the Helen Bader School of Social Welfare collaboratively offer a program designed to provide students with theoretical, research-based policy and practice knowledge and accompanying skill sets, to address health inequities and inequalities and respond to the health and well-being needs of communities at the local, regional, national and international arenas.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found

by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

## Admission

Students are admitted to each graduate program separately and based on admission requirements which are consistent with those specified by the UWM Graduate School, the MPH program in the Zilber College of Public Health, and the MSW program of the Department of Social Work.

## Credits and Courses

Students accepted into this MPH/MSW program complete the following courses:

### Master of Public Health (MPH)

#### Required Common Core Courses (24-25 Credits)

Code	Title	Credits
<b>Required Common Core Courses</b>		
PH 702	Introduction to Biostatistics	3
PH 703	Environmental Health Sciences	3
PH 704	Principles and Methods of Epidemiology	3
PH 705	Principles of Public Health Policy and Administration	3
PH 706	Perspectives on Community & Behavioral Health	3
PH 708	Health Systems and Population Health	3
PH 733	Overview of Qualitative Methods for Public Health *	1
PH 791	Leadership in Public Health	1
PH 800	Capstone in Public Health	2
SOC WRK 823	Coordinated Public Health and Social Work Field Education **	3
<b>Total Credits</b>		<b>25</b>

\* Students in the PHP Track take PH 776 Qualitative Approaches in Public Health Policy instead of PH 733. Students in the CBHP Track may take PH 776 Qualitative Approaches in Public Health Policy as an elective instead of PH 733.

\*\* SOC WRK 823 satisfies the PH 790 Field Experience for MPH/MSW students.

#### Students specialize in one of the two public health tracks of study:

- Community and Behavioral Health Promotion
- Public Health Policy

#### Community and Behavioral Health Promotion Track (24 credits)

In addition to the common MPH core classes, students complete:

Code	Title	Credits
<b>Required Courses</b>		
PH 700	Structures of Inequality and Population Health	3
PH 725	Theories and Models of Health Behavior	3
PH 726	Community Health Assessment	3
PH 727	Program Planning & Implementation in Public Health	3
PH 728	Program Evaluation in Public Health	3

<b>Electives (see table below)</b>	<b>9</b>
<b>Total Credits</b>	<b>24</b>

#### Community and Behavioral Health Promotion Electives

Code	Title	Credits
<b>Methods "S" Electives</b>		
Select two of the following courses:		
PH 729	Survey Research Methods in Public Health	3
PH 776	Qualitative Approaches in Public Health Policy	3
PH 831	Community Engagement and Participatory Research Approaches in Public Health	3

<b>Electives</b>	<b>3</b>	
Select one of the following courses:		
PH 719	Social Justice in Public Health	3
PH 730	Overview of Children with Special Health Care Needs	3
PH 740	Special Topics in Public Health:	1-3
PH 752	Public Health and Mental Health	3
PH 820	Maternal and Child Health Foundations, Policy and Practice	3
PH 999	Independent Study	1-3
Other courses as approved by advisor.		

#### Public Health Policy Track (24 credits)

In addition to the common MPH core classes, students complete:

Code	Title	Credits
<b>Required Courses</b>		
PH 776	Qualitative Approaches in Public Health Policy	3
PH 777	Quantitative Research Methods for Public Health Policy	3
PH 779	Public Health Policymaking and Policy Analysis	3
PH 785	Principles of Public Health Economics	3
<b>Electives (see table below)</b>	<b>12</b>	

<b>Total Credits</b>	<b>24</b>
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#### Public Health Policy Electives

Code	Title	Credits
<b>Content Elective</b>		
Select one of the following courses:		
ED POL 630G	Race, Ethnicity, and Public Policy in Urban America	3
PH 700	Structures of Inequality and Population Health	3
PH 719	Social Justice in Public Health	3
PH 730	Overview of Children with Special Health Care Needs	3
PH 752	Public Health and Mental Health	3
PH 769	Critical Perspectives on Nutritional Epidemiology and the Food System	3



PH 784	Social and Economic Policy as Health Policy	3
PH 820	Maternal and Child Health Foundations, Policy and Practice	3
PH 859	Racial/Ethnic Health Disparities in the United States	3

**Methods and Practice Elective 9**

Select three of the following courses:

BUS ADM 755	Health Care Administration and Delivery Systems	3
BUS ADM 766	Marketing for Nonprofit Organizations	3
ED POL 601	Foundations of Community-Based Organizations	3
ED POL 602	Proposal Writing and Fundraising Skills for Community-Based Organizations	3
NONPROF 791	Nonprofit Advocacy and Public Policy	3
PH 726	Community Health Assessment	3
PH 727	Program Planning & Implementation in Public Health	3
PH 728	Program Evaluation in Public Health	3
PH 729	Survey Research Methods in Public Health	3
PH 763	Epidemiology for Equity	3
PUB ADM 630	Budgeting and Finance in the Public Sector	3
PUB ADM 763	Scope and Dynamics of Public Administration	3
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	3

Other courses as approved by advisor.

**Total MPH Degree Credits Required: 48-49 Credit Hours  
Master of Social Work (MSW)**

Code	Title	Credits
<b>Foundation Curriculum</b>		
SOC WRK 604	Social Systems and Social Work Practice	3
SOC WRK 662	Methods of Social Welfare Research	3
SOC WRK 665	Cultural Diversity and Social Work	3
SOC WRK 705	Individual Behavior and Social Welfare	3
SOC WRK 708	Social Work Methods I: Individuals and Families	3
SOC WRK 709	Social Work Methods II: Groups, Organizations and Communities	2
SOC WRK 721	Field Instruction I	3
SOC WRK 750	Social Welfare Policy Development and Implementation	2
<b>Advanced Practice Curriculum</b>		
SOC WRK 711	Direct Social Work Practice I	3
SOC WRK 712	Advanced Practice and Leadership in Organizations and Communities	3
SOC WRK 795	Evaluation of Social Work Practice and Programs	3
SOC WRK 851	Social Issue and Policy Analysis:	3

**Field Courses**

SOC WRK 722	Field Instruction II	3
SOC WRK 822	Field Instruction IV	3
SOC WRK 823	Coordinated Public Health and Social Work Field Education	3

**Electives (see table below) 4**

**Total Credits 47**

**Electives**

Code	Title	Credits
Choose at least two courses:		
SOC WRK 630G	Families and Poverty	2-3
SOC WRK 680G	Death and Dying	3
SOC WRK 685G	Social Gerontology	3
SOC WRK 690G	Mindfulness and Community Building	3
SOC WRK 753	Adult Psychopathology	3
SOC WRK 754	Child and Adolescent Psychopathology	2
SOC WRK 765	Social Work Boundaries and Ethics in Professional Practice	2-3
SOC WRK 771	Development of the Family Over the Life Span	3
SOC WRK 774	Trauma Counseling I: Theory and Research	3
SOC WRK 775	Trauma Counseling II: Diagnosis and Treatment	3
SOC WRK 791	Current Topics in Social Work:	1-3
SOC WRK 811	Direct Social Work Practice II:	3
SOC WRK 818	Treatment of Co-Occurring Disorders	3
SOC WRK 820	Seminar in Social Work Practice:	2
SOC WRK 855	Practice Skills and Concepts for Aging and Health	3
SOC WRK 999	Independent Reading in Social Work	1-3

Other courses as approved by advisor.

**Total Degree Credits Required:**

(1) With BSW: 34 cr. (includes 9 cr. satisfied by public health credits)

(2) Without BSW: 56 cr. (includes 9 cr. satisfied by public health credits)

**Total Credits for Coordinated Degree Program:**

(1) With BSW: 73 - 74 cr.

(2) Without BSW: 95 - 96 cr.

The credits for the coordinated program would typically be completed in both programs at the same time, rather than one program after the other. A student not completing the requirements for the coordinated degree program would need to complete all requirements for an individual program in order to receive a degree.

**Additional Requirements**

**Time Limit**

Students in the coordinated MPH/MSW degree program must complete all degree requirements within seven years of the first enrollment semester as a degree student.

## Public Health, MPH: Biostatistics

The Biostatistics track builds on the classic Public Health Biostatistics skill and knowledge base and takes advantage of special knowledge of its faculty in the areas of genetics, bioinformatics, network analysis, causal inference, and big data science. Students have the opportunity to learn and apply statistical genetics in the context of complex disease study, high throughout computing used in "big" data science, applications in evidence-based patient-centered outcome studies, and population-based epidemiological studies. Courses include topics and material such as interpretation of personalized and evidence-based medicine in the context of public health; basic understanding of genetics and epigenetics; general "omic" approaches and concepts; as well as classic Biostatistics topics such as Survival and Categorical data analysis.

### Related Certificate

- Interprofessional Graduate Certificate in Public and Population Health (p. 1345)
- Graduate Certificate in Maternal and Child Health (p. 1354)

The Zilber College of Public Health (CPH) offers a Master of Public Health (MPH) with concentration in six tracks of study, a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

### Master of Public Health

The Master of Public Health (MPH) offered by the Zilber CPH is a professional master's degree program that provides students with a broad understanding of public health practice. Students in the MPH program can specialize in six distinct tracks of study: 1) Biostatistics, 2) Community and Behavioral Health Promotion, 3) Environmental Health Sciences, 4) Epidemiology, 5) Public Health Policy, and 6) Nutrition and Dietetics. The College also offers a coordinated MPH/MSW degree in collaboration with the Helen Bader School of Social Welfare.

Like most MPH programs, the Zilber CPH's program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber CPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the six areas. Upon graduation students are prepared for positions in a range of public/population health and healthcare settings and/or for doctoral-level study.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements as well as the desired track of study requirements. The following steps must be met to be considered for admission to the MPH Program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant's academic experience and potential for graduate work in public health.
2. CV or Resume.
3. Address the following two short essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
  - Describe how your professional, volunteer, and educational background has led you to seek a degree in public health.
  - How will your desired track of study help you reach your personal and professional goals in public health?
4. International applicants must also meet admission standards set and monitored by UWM's Center for International Education.
5. MPH applicants must use SOPHAS (<https://sophas.org/>) to apply. Applicants must select the track to which they are applying: Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, Public Health Policy, or Nutrition and Dietetics.

### Credits and Courses

All students enrolled in the MPH program take a common set of core classes designed to give basic skills and knowledge of public health concepts. The core curriculum consists of at least 24-25 credit hours, including four credits for the Field Experience (3 credits) and Leadership in Public Health (1 credit) courses and a two-credit capstone seminar. In addition to the common core, students complete the required coursework in one of six specialization tracks (total program credits in parentheses): Biostatistics (46 credits), Community and Behavioral Health Promotion (48-49 credits), Environmental Health Sciences (45 credits), Epidemiology (49 credits), Public Health Policy (48 credits), or Nutrition and Dietetics (64 credits). Students must maintain a cumulative GPA of 3.0 or better in order to progress through the program.

### MPH Required Common Core Courses (24-25 credits)

Code	Title	Credits
PH 702	Introduction to Biostatistics	3
PH 703	Environmental Health Sciences	3
PH 704	Principles and Methods of Epidemiology	3
PH 705	Principles of Public Health Policy and Administration	3
PH 706	Perspectives on Community & Behavioral Health	3
PH 708	Health Systems and Population Health	3
PH 733	Overview of Qualitative Methods for Public Health <sup>1</sup>	1
PH 790	Field Experience in Public Health (See following section for details) <sup>2</sup>	3
PH 791	Leadership in Public Health	1

PH 800	Capstone in Public Health (See following section for details) <sup>3</sup>	2
<b>Total Credits</b>		<b>25</b>

<sup>1</sup> Required for students in the Biostatistics, Environmental Health Science, Epidemiology, and Nutrition and Dietetics Tracks. Community and Behavioral Health Promotion Track students who take a qualitative methods course and Public Health Policy Track students would be exempt.  
<sup>2</sup> Satisfactory/Unsatisfactory; may be taken for 1, 2, or 3 credits in a given semester. A total of 3 credits is required.  
<sup>3</sup> Satisfactory/Unsatisfactory; completed in the final semester of study.

## Field Experience

The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and college staff to identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. Students in the Nutrition and Dietetics track will be provided with specific placement(s) by the program. The experience is a mentored placement engaging both a faculty advisor and a site preceptor. Students complete at least two products as agreed upon with the site preceptor. This course is offered in the summer, fall, and spring semesters.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be Council on Education for Public Health (CEPH) MPH Foundational Competencies (see Field Experience Handbook), and two of which are identified from the track competency sets.

The following two CEPH MPH Foundational Competencies are required of all students:

**#16.** Apply leadership and/or management principles to address a relevant issue (may include creating a vision, empowering others, fostering collaboration, and guiding decision making).

**#19.** Communicate audience-appropriate (i.e., non-academic, non-peer audience) public health content, both in writing and through oral presentation.

Students choose their third Foundational Competency.

Students enrolled in the Nutritional and Dietetics track will be required to demonstrate attainment of select competencies from the Accreditation Council for Education in Nutrition and Dietetics (ACEND) during Field Experience in Public Health. Nutrition and Dietetics students will be required to meet the 3-credit requirement for Field Experience in Public Health in one semester and complete additional field experience program requirements in food systems management and medical nutrition therapy.

In addition, students take the one-credit Leadership Public Health course. This course is designed to give students the opportunity to apply three specific CEPH MPH Foundational Competencies related to the Field Experience. The Field Experience setting provides students with

opportunities to integrate these competencies through their projects, observe professionals in their organizations and the community, and learn important skills in these three areas. The required competencies are:

**#16.** Apply leadership and/or management principles to address a relevant issue (may include creating a vision, empowering others, fostering collaboration, and guiding decision making).

**#17.** Apply negotiation and mediation skills to address organizational or community challenges (among parties with conflicting interests and/or different desired outcomes).

**#21.** Integrate perspectives from other sectors and/or professions to promote and advance population health (direct engagement between student[s] and individual[s] in a sector or profession other than public health to complete a task or solve a problem).

Students fulfill these competencies with readings and through a series of activities including case studies or scenarios/role playing exercises. Assessments for the leadership, negotiation and interprofessional team competencies include participation in the sessions and written papers. The Leadership in Public Health course is offered in the summer and fall semesters. All four Field Experience and Leadership course credits may be taken in one semester or spread out over two semesters.

## Capstone

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. The capstone project is an opportunity for students to synthesize and demonstrate public health competencies. Capstone projects can vary by track and usually include analysis of information and data. The projects also include a comprehensive literature review as required by track.

Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student's interests and career goals. Students then implement the project during their final semester of the program. The project has both written paper and oral presentation components. In addition, students attend several weekly seminars.

## Biostatistics Concentration

Code	Title	Credits
<b>Required Courses</b>		
PH 711	Intermediate Biostatistics	3
PH 712	Probability and Statistical Inference	3
PH 718	Data Management and Visualization in R	3
<b>Electives (see table below)</b>		<b>12</b>
<b>Total Credits</b>		<b>21</b>

### Electives

Code	Title	Credits
<b>Select four of the following courses:</b>		
PH 714	Statistical Genetics and Genetic Epidemiology	3
PH 715	Applied Categorical Data	3
PH 716	Applied Survival Analysis	3
PH 717	Applied Longitudinal Data Analysis	3

PH 720	Special Topics in Biostatistics:	1-3
PH 721	Introduction to Translational Bioinformatics	3
PH 723	Design, Conduct and Analysis of Clinical Trials	3

Other courses as approved by advisor.

## Additional Requirements

### Faculty Advisor

Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student. If deemed necessary, any student can petition to the Zilber Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the MPH Program.

### Thesis

Not required. See capstone for similar culminating experience.

### Comprehensive Examination

Not required. See capstone for similar culminating experience.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Public Health, MPH: Community and Behavioral Health Promotion

The Community and Behavioral Health Promotion (CBHP) track focuses on promoting the health of communities through innovative approaches to community engagement and collaborative practice. Coursework addresses theories and frameworks in social and behavioral science, evidence-based methods for program planning (including assessment) and implementation, and program evaluation. Students apply a social justice and equity-centered approach to public health training and practice. Methodological approaches address quantitative, qualitative, and community-engaged techniques.

## Related Certificate

- Interprofessional Graduate Certificate in Public and Population Health (p. 1345)
- Graduate Certificate in Maternal and Child Health (p. 1354)

The Zilber College of Public Health (CPH) offers a Master of Public Health (MPH) with concentration in six tracks of study, a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

## Master of Public Health

The Master of Public Health (MPH) offered by the Zilber CPH is a professional master's degree program that provides students with a broad understanding of public health practice. Students in the MPH

program can specialize in six distinct tracks of study: 1) Biostatistics, 2) Community and Behavioral Health Promotion, 3) Environmental Health Sciences, 4) Epidemiology, 5) Public Health Policy, and 6) Nutrition and Dietetics. The College also offers a coordinated MPH/MSW degree in collaboration with the Helen Bader School of Social Welfare.

Like most MPH programs, the Zilber CPH's program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber CPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the six areas. Upon graduation students are prepared for positions in a range of public/population health and healthcare settings and/or for doctoral-level study.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements as well as the desired track of study requirements. The following steps must be met to be considered for admission to the MPH Program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant's academic experience and potential for graduate work in public health.
2. CV or Resume.
3. Address the following two short essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
  - Describe how your professional, volunteer, and educational background has led you to seek a degree in public health.
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4. International applicants must also meet admission standards set and monitored by UWM's Center for International Education.
5. MPH applicants must use SOPHAS (<https://sophas.org/>) to apply. Applicants must select the track to which they are applying: Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, Public Health Policy, or Nutrition and Dietetics.

## Credits and Courses

All students enrolled in the MPH program take a common set of core classes designed to give basic skills and knowledge of public health concepts. The core curriculum consists of at least 24-25 credit hours, including four credits for the Field Experience (3 credits) and Leadership in Public Health (1 credit) courses and a two-credit capstone seminar. In addition to the common core, students complete the required coursework

in one of six specialization tracks (total program credits in parentheses): Biostatistics (46 credits), Community and Behavioral Health Promotion (48-49 credits), Environmental Health Sciences (45 credits), Epidemiology (49 credits), Public Health Policy (48 credits), or Nutrition and Dietetics (64 credits). Students must maintain a cumulative GPA of 3.0 or better in order to progress through the program.

## MPH Required Common Core Courses (24-25 credits)

Code	Title	Credits
PH 702	Introduction to Biostatistics	3
PH 703	Environmental Health Sciences	3
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PH 708	Health Systems and Population Health	3
PH 733	Overview of Qualitative Methods for Public Health <sup>1</sup>	1
PH 790	Field Experience in Public Health (See following section for details) <sup>2</sup>	3
PH 791	Leadership in Public Health	1
PH 800	Capstone in Public Health (See following section for details) <sup>3</sup>	2
<b>Total Credits</b>		<b>25</b>

<sup>1</sup> Required for students in the Biostatistics, Environmental Health Science, Epidemiology, and Nutrition and Dietetics Tracks. Community and Behavioral Health Promotion Track students who take a qualitative methods course and Public Health Policy Track students would be exempt.

<sup>2</sup> Satisfactory/Unsatisfactory; may be taken for 1, 2, or 3 credits in a given semester. A total of 3 credits is required.

<sup>3</sup> Satisfactory/Unsatisfactory; completed in the final semester of study.

## Field Experience

The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and college staff to identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. Students in the Nutrition and Dietetics track will be provided with specific placement(s) by the program. The experience is a mentored placement engaging both a faculty advisor and a site preceptor. Students complete at least two products as agreed upon with the site preceptor. This course is offered in the summer, fall, and spring semesters.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be Council on Education for Public Health (CEPH) MPH Foundational Competencies (see Field Experience Handbook), and two of which are identified from the track competency sets.

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**#19.** Communicate audience-appropriate (i.e., non-academic, non-peer audience) public health content, both in writing and through oral presentation.

Students choose their third Foundational Competency.

Students enrolled in the Nutritional and Dietetics track will be required to demonstrate attainment of select competencies from the Accreditation Council for Education in Nutrition and Dietetics (ACEND) during Field Experience in Public Health. Nutrition and Dietetics students will be required to meet the 3-credit requirement for Field Experience in Public Health in one semester and complete additional field experience program requirements in food systems management and medical nutrition therapy.

In addition, students take the one-credit Leadership Public Health course. This course is designed to give students the opportunity to apply three specific CEPH MPH Foundational Competencies related to the Field Experience. The Field Experience setting provides students with opportunities to integrate these competencies through their projects, observe professionals in their organizations and the community, and learn important skills in these three areas. The required competencies are:

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**#21.** Integrate perspectives from other sectors and/or professions to promote and advance population health (direct engagement between student[s] and individual[s] in a sector or profession other than public health to complete a task or solve a problem).

Students fulfill these competencies with readings and through a series of activities including case studies or scenarios/role playing exercises. Assessments for the leadership, negotiation and interprofessional team competencies include participation in the sessions and written papers. The Leadership in Public Health course is offered in the summer and fall semesters. All four Field Experience and Leadership course credits may be taken in one semester or spread out over two semesters.

## Capstone

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. The capstone project is an opportunity for students to synthesize and demonstrate public health competencies. Capstone projects can vary by track and usually include analysis of information and data. The projects also include a comprehensive literature review as required by track.

Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student's interests and career goals. Students then implement the project during their final

semester of the program. The project has both written paper and oral presentation components. In addition, students attend several weekly seminars.

## Community and Behavioral Health Promotion Concentration

Code	Title	Credits
<b>Required Courses</b>		
PH 700	Structures of Inequality and Population Health	3
PH 725	Theories and Models of Health Behavior	3
PH 726	Community Health Assessment	3
PH 727	Program Planning & Implementation in Public Health	3
PH 728	Program Evaluation in Public Health	3
<b>Electives (see table below)</b>		<b>9</b>
<b>Total Credits</b>		<b>24</b>

### Electives

Code	Title	Credits
<b>Select two of the following courses:</b>		<b>6</b>
PH 729	Survey Research Methods in Public Health	3
PH 776	Qualitative Approaches in Public Health Policy	3
PH 831	Community Engagement and Participatory Research Approaches in Public Health	3
<b>Select one of the following courses:</b>		<b>3</b>
PH 719	Social Justice in Public Health	3
PH 730	Overview of Children with Special Health Care Needs	3
PH 740	Special Topics in Public Health:	1-3
PH 752	Public Health and Mental Health	3
PH 820	Maternal and Child Health Foundations, Policy and Practice	3
PH 999	Independent Study	1-3
Other courses as approved by advisor.		

## Additional Requirements

### Faculty Advisor

Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student. If deemed necessary, any student can petition to the Zilber Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the MPH Program.

### Thesis

Not required. See capstone for similar culminating experience.

## Comprehensive Examination

Not required. See capstone for similar culminating experience.

## Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Public Health, MPH: Environmental Health Sciences

Environmental Health Sciences MPH students learn the biological, chemical, and structural components of public health and how to put current research into practice. Students' experiences incorporate environmental health theories with cross-cutting public health competencies such as communication, public health biology, systems-thinking and leadership.

Faculty for this program are drawn from a number of departments and research units at UWM, affording the student an unparalleled opportunity for cross-disciplinary training and the performance of novel research projects. Laboratories and equipment are available across campus to promote innovative concepts in issues of Environmental Health Sciences.

## Related Certificate

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- Graduate Certificate in Maternal and Child Health (p. 1354)

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PH 791	Leadership in Public Health	1
PH 800	Capstone in Public Health (See following section for details) <sup>3</sup>	2
<b>Total Credits</b>		<b>25</b>

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### Field Experience

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## Capstone

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. The capstone project is an opportunity for students to synthesize and demonstrate public health competencies. Capstone projects can vary by track and usually include analysis of information and data. The projects also include a comprehensive literature review as required by track.

Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student's interests and career goals. Students then implement the project during their final semester of the program. The project has both written paper and oral presentation components. In addition, students attend several weekly seminars.

## Environmental Health Sciences Concentration

Code	Title	Credits
<b>Required Courses</b>		
PH 743	Environmental Risk Assessment	3
PH 750	Seminar in Environmental Health Sciences:	2
PH 762	Environmental Epidemiology	3
<b>Electives (see table below)</b>		<b>12</b>
<b>Total Credits</b>		<b>20</b>

## Electives

Code	Title	Credits
<b>Built Environment "S" Elective</b>		
Select one of the following courses:		
ARCH 801	Special Topics:	1-3
GEOG 520	Physical Geography of the City	3
GEOG 945	The Internal Structure of the City	3
IND ENG 580	Ergonomics	3
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	3
Other courses as approved by advisor.		
<b>Chemical Environment "S" Elective</b>		
Select one of the following courses:		
PH 741	Environmental Public Health Microbiology	3
PH 745	Developmental Toxicology	3
Other courses as approved by advisor.		
<b>Biological Environment "S" Elective</b>		
Select one of the following courses:		
PH 741	Environmental Public Health Microbiology	3
PH 745	Developmental Toxicology	3
Other courses as approved by advisor.		
<b>Elective</b>		
Select one additional course from the Built, Chemical, or Biological "S" electives or other course as approved by advisor.		

## Additional Requirements

### Faculty Advisor

Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student. If deemed necessary, any student can petition to the Zilber Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the MPH Program.

### Thesis

Not required. See capstone for similar culminating experience.

### Comprehensive Examination

Not required. See capstone for similar culminating experience.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).



## Public Health, MPH: Epidemiology

The Epidemiology track emphasizes the application of epidemiologic theory and methods for promoting social justice and health equity. The integrated multidisciplinary curriculum bridges theory, research, and practice to prepare students to engage in rigorous, collaborative, evidence-informed and reflexive public health practice. Through both didactic and experiential learning, students acquire foundations of applied epidemiological methods, epidemiologic data analysis, theories of social inequality, social epidemiology, and community partnership building. Graduates are able to collect, analyze, and interpret epidemiological information, generate theory-driven hypotheses and research questions, and work in true collaboration with diverse community partners to create social change to improve the public's health and reduce health inequities.

### Related Certificate

- Interprofessional Graduate Certificate in Public and Population Health (p. 1345)
- Graduate Certificate in Maternal and Child Health (p. 1354)

The Zilber College of Public Health (CPH) offers a Master of Public Health (MPH) with concentration in six tracks of study, a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

### Master of Public Health

The Master of Public Health (MPH) offered by the Zilber CPH is a professional master's degree program that provides students with a broad understanding of public health practice. Students in the MPH program can specialize in six distinct tracks of study: 1) Biostatistics, 2) Community and Behavioral Health Promotion, 3) Environmental Health Sciences, 4) Epidemiology, 5) Public Health Policy, and 6) Nutrition and Dietetics. The College also offers a coordinated MPH/MSW degree in collaboration with the Helen Bader School of Social Welfare.

Like most MPH programs, the Zilber CPH's program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber CPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the six areas. Upon graduation students are prepared for positions in a range of public/population health and healthcare settings and/or for doctoral-level study.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements as well as the desired track of study requirements. The following steps must be met to be considered for admission to the MPH Program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant's academic experience and potential for graduate work in public health.
2. CV or Resume.
3. Address the following two short essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
  - Describe how your professional, volunteer, and educational background has led you to seek a degree in public health.
  - How will your desired track of study help you reach your personal and professional goals in public health?
4. International applicants must also meet admission standards set and monitored by UWM's Center for International Education.
5. MPH applicants must use SOPHAS (<https://sophas.org/>) to apply. Applicants must select the track to which they are applying: Biostatistics, Community and Behavioral Health Promotion, Environmental Health Sciences, Epidemiology, Public Health Policy, or Nutrition and Dietetics.

### Credits and Courses

All students enrolled in the MPH program take a common set of core classes designed to give basic skills and knowledge of public health concepts. The core curriculum consists of at least 24-25 credit hours, including four credits for the Field Experience (3 credits) and Leadership in Public Health (1 credit) courses and a two-credit capstone seminar. In addition to the common core, students complete the required coursework in one of six specialization tracks (total program credits in parentheses): Biostatistics (46 credits), Community and Behavioral Health Promotion (48-49 credits), Environmental Health Sciences (45 credits), Epidemiology (49 credits), Public Health Policy (48 credits), or Nutrition and Dietetics (64 credits). Students must maintain a cumulative GPA of 3.0 or better in order to progress through the program.

### MPH Required Common Core Courses (24-25 credits)

Code	Title	Credits
PH 702	Introduction to Biostatistics	3
PH 703	Environmental Health Sciences	3
PH 704	Principles and Methods of Epidemiology	3
PH 705	Principles of Public Health Policy and Administration	3
PH 706	Perspectives on Community & Behavioral Health	3
PH 708	Health Systems and Population Health	3
PH 733	Overview of Qualitative Methods for Public Health <sup>1</sup>	1
PH 790	Field Experience in Public Health (See following section for details) <sup>2</sup>	3
PH 791	Leadership in Public Health	1

PH 800	Capstone in Public Health (See following section for details) <sup>3</sup>	2
<b>Total Credits</b>		<b>25</b>

<sup>1</sup> Required for students in the Biostatistics, Environmental Health Science, Epidemiology, and Nutrition and Dietetics Tracks. Community and Behavioral Health Promotion Track students who take a qualitative methods course and Public Health Policy Track students would be exempt.  
<sup>2</sup> Satisfactory/Unsatisfactory; may be taken for 1, 2, or 3 credits in a given semester. A total of 3 credits is required.  
<sup>3</sup> Satisfactory/Unsatisfactory; completed in the final semester of study.

### Field Experience

The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and college staff to identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. Students in the Nutrition and Dietetics track will be provided with specific placement(s) by the program. The experience is a mentored placement engaging both a faculty advisor and a site preceptor. Students complete at least two products as agreed upon with the site preceptor. This course is offered in the summer, fall, and spring semesters.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be Council on Education for Public Health (CEPH) MPH Foundational Competencies (see Field Experience Handbook), and two of which are identified from the track competency sets.

The following two CEPH MPH Foundational Competencies are required of all students:

**#16.** Apply leadership and/or management principles to address a relevant issue (may include creating a vision, empowering others, fostering collaboration, and guiding decision making).

**#19.** Communicate audience-appropriate (i.e., non-academic, non-peer audience) public health content, both in writing and through oral presentation.

Students choose their third Foundational Competency.

Students enrolled in the Nutritional and Dietetics track will be required to demonstrate attainment of select competencies from the Accreditation Council for Education in Nutrition and Dietetics (ACEND) during Field Experience in Public Health. Nutrition and Dietetics students will be required to meet the 3-credit requirement for Field Experience in Public Health in one semester and complete additional field experience program requirements in food systems management and medical nutrition therapy.

In addition, students take the one-credit Leadership Public Health course. This course is designed to give students the opportunity to apply three specific CEPH MPH Foundational Competencies related to the Field Experience. The Field Experience setting provides students with

opportunities to integrate these competencies through their projects, observe professionals in their organizations and the community, and learn important skills in these three areas. The required competencies are:

**#16.** Apply leadership and/or management principles to address a relevant issue (may include creating a vision, empowering others, fostering collaboration, and guiding decision making).

**#17.** Apply negotiation and mediation skills to address organizational or community challenges (among parties with conflicting interests and/or different desired outcomes).

**#21.** Integrate perspectives from other sectors and/or professions to promote and advance population health (direct engagement between student[s] and individual[s] in a sector or profession other than public health to complete a task or solve a problem).

Students fulfill these competencies with readings and through a series of activities including case studies or scenarios/role playing exercises. Assessments for the leadership, negotiation and interprofessional team competencies include participation in the sessions and written papers. The Leadership in Public Health course is offered in the summer and fall semesters. All four Field Experience and Leadership course credits may be taken in one semester or spread out over two semesters.

### Capstone

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. The capstone project is an opportunity for students to synthesize and demonstrate public health competencies. Capstone projects can vary by track and usually include analysis of information and data. The projects also include a comprehensive literature review as required by track.

Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student's interests and career goals. Students then implement the project during their final semester of the program. The project has both written paper and oral presentation components. In addition, students attend several weekly seminars.

### Epidemiology Concentration

Code	Title	Credits
<b>Required Courses</b>		
PH 700	Structures of Inequality and Population Health	3
PH 758	Social Epidemiology	3
PH 759	Intro to Regression for Understanding the SDOH	3
PH 761	Epidemiology Field Methods	3
PH 763	Epidemiology for Equity	3
<b>Electives (see table below)</b>		<b>9</b>
<b>Total Credits</b>		<b>24</b>

<b>Electives</b>		
Code	Title	Credits
<b>Content electives</b>		
<b>3</b>		
Select one of the following courses:		
PH 762	Environmental Epidemiology	3

PH 768	Cancer Epidemiology	3
PH 769	Critical Perspectives on Nutritional Epidemiology and the Food System	3
PH 868	Epidemiologic Links Between Infectious and Chronic Disease	3
Other courses as approved by advisor.		
<b>Electives</b>		<b>6</b>
Select two of the following courses:		
GEOG 726	Geographic Information Science	4
PH 715	Applied Categorical Data	3
PH 716	Applied Survival Analysis	3
PH 717	Applied Longitudinal Data Analysis	3
PH 718	Data Management and Visualization in R	3
PH 727	Program Planning & Implementation in Public Health	3
PH 728	Program Evaluation in Public Health	3
PH 729	Survey Research Methods in Public Health	3
PH 784	Social and Economic Policy as Health Policy	3
PH 779	Public Health Policymaking and Policy Analysis	3
PH 804	Advanced Epidemiology	3
PH 823	Applied Analysis of Binary Outcomes in Public Health Research	3
PH 904	Survey of Analytic Methods for Epidemiology	3
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	3

Any Content Elective from above list.

Other courses as approved by advisor.

## Additional Requirements

### Faculty Advisor

Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student. If deemed necessary, any student can petition to the Zilber Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the MPH Program.

### Thesis

Not required. See capstone for similar culminating experience.

### Comprehensive Examination

Not required. See capstone for similar culminating experience.

### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Public Health, MPH: Nutrition and Dietetics

The UWM MPH-Nutrition and Dietetics program integrates a competency-based curriculum of didactic, academic coursework with supervised experiential learning in public health nutrition, food systems management, and clinical nutrition to prepare graduates to practice as registered dietitian nutritionists (RDN).

## Accreditation Information

The University of Wisconsin-Milwaukee's MPH-Nutrition and Dietetics program has been granted candidate status by the Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics (<http://www.eatrightPRO.org/ACEND/>), 120 South Riverside Plaza, Suite 2190, Chicago, IL 60606-6995, (312) 899-0040 ext. 5400.

A new program that has been determined to be eligible to enroll students or accepting interns as the result of an on-site evaluation visit but has not had a graduating class may be granted candidate status. The granting of candidate status denotes a developmental program, which is expected to mature in accord with stated plans and within a defined time period. Reasonable assurances are expected to be provided that the program may become accredited as programmatic experiences are gained, generally, by the time the first class has graduated. Graduates of a class designated as having candidate status have the same rights and privileges as graduates of an accredited program.

UWM's MPH-Nutrition and Dietetics program is designed to align with ACEND's® Future Education Model Accreditation Standards for Graduate Programs in Nutrition and Dietetics. These accreditation standards require the integration of didactic coursework with supervised experiential learning in a competency-based curriculum designed to prepare students for careers as registered dietitian nutritionists (RDNs).

More information can be found on the MPH-Nutrition and Dietetics program webpage.

## Related Certificate

- Interprofessional Graduate Certificate in Public and Population Health (p. 1345)
- Graduate Certificate in Maternal and Child Health (p. 1354)

The Zilber College of Public Health (CPH) offers a Master of Public Health (MPH) with concentration in six tracks of study, a PhD in Public Health with a Concentration in Community and Behavioral Health Promotion, a PhD in Public Health with a Concentration in Biostatistics, a PhD in Environmental Health Sciences, and a PhD in Epidemiology.

## Master of Public Health

The Master of Public Health (MPH) offered by the Zilber CPH is a professional master's degree program that provides students with a broad understanding of public health practice. Students in the MPH program can specialize in six distinct tracks of study: 1) Biostatistics, 2) Community and Behavioral Health Promotion, 3) Environmental Health Sciences, 4) Epidemiology, 5) Public Health Policy, and 6) Nutrition and

Dietetics. The College also offers a coordinated MPH/MSW degree in collaboration with the Helen Bader School of Social Welfare.

Like most MPH programs, the Zilber CPH's program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber CPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the six areas. Upon graduation students are prepared for positions in a range of public/population health and healthcare settings and/or for doctoral-level study.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

An applicant must meet Graduate School requirements as well as the desired track of study requirements. The following steps must be met to be considered for admission to the MPH Program. These materials will be considered in a holistic admissions process with special attention to ensure a diverse student body.

1. Three letters of recommendation from persons familiar with the applicant's academic experience and potential for graduate work in public health.
2. CV or Resume.
3. Address the following two short essay questions, limiting responses to no more than 500 words (approximately 250 words per question):
  - Describe how your professional, volunteer, and educational background has led you to seek a degree in public health.
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4. International applicants must also meet admission standards set and monitored by UWM's Center for International Education.
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## Credits and Courses

All students enrolled in the MPH program take a common set of core classes designed to give basic skills and knowledge of public health concepts. The core curriculum consists of at least 24-25 credit hours, including four credits for the Field Experience (3 credits) and Leadership in Public Health (1 credit) courses and a two-credit capstone seminar. In addition to the common core, students complete the required coursework in one of six specialization tracks (total program credits in parentheses): Biostatistics (46 credits), Community and Behavioral Health Promotion (48-49 credits), Environmental Health Sciences (45 credits), Epidemiology

(49 credits), Public Health Policy (48 credits), or Nutrition and Dietetics (64 credits). Students must maintain a cumulative GPA of 3.0 or better in order to progress through the program.

### MPH Required Common Core Courses (24-25 credits)

Code	Title	Credits
PH 702	Introduction to Biostatistics	3
PH 703	Environmental Health Sciences	3
PH 704	Principles and Methods of Epidemiology	3
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PH 706	Perspectives on Community & Behavioral Health	3
PH 708	Health Systems and Population Health	3
PH 733	Overview of Qualitative Methods for Public Health <sup>1</sup>	1
PH 790	Field Experience in Public Health (See following section for details) <sup>2</sup>	3
PH 791	Leadership in Public Health	1
PH 800	Capstone in Public Health (See following section for details) <sup>3</sup>	2
<b>Total Credits</b>		<b>25</b>

<sup>1</sup> Required for students in the Biostatistics, Environmental Health Science, Epidemiology, and Nutrition and Dietetics Tracks. Community and Behavioral Health Promotion Track students who take a qualitative methods course and Public Health Policy Track students would be exempt.

<sup>2</sup> Satisfactory/Unsatisfactory; may be taken for 1, 2, or 3 credits in a given semester. A total of 3 credits is required.

<sup>3</sup> Satisfactory/Unsatisfactory; completed in the final semester of study.

### Field Experience

The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and college staff to identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. Students in the Nutrition and Dietetics track will be provided with specific placement(s) by the program. The experience is a mentored placement engaging both a faculty advisor and a site preceptor. Students complete at least two products as agreed upon with the site preceptor. This course is offered in the summer, fall, and spring semesters.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be Council on Education for Public Health (CEPH) MPH Foundational Competencies (see Field Experience Handbook), and two of which are identified from the track competency sets.

The following two CEPH MPH Foundational Competencies are required of all students:

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**#19.** Communicate audience-appropriate (i.e., non-academic, non-peer audience) public health content, both in writing and through oral presentation.

Students choose their third Foundational Competency.

Students enrolled in the Nutritional and Dietetics track will be required to demonstrate attainment of select competencies from the Accreditation Council for Education in Nutrition and Dietetics (ACEND) during Field Experience in Public Health. Nutrition and Dietetics students will be required to meet the 3-credit requirement for Field Experience in Public Health in one semester and complete additional field experience program requirements in food systems management and medical nutrition therapy.

In addition, students take the one-credit Leadership Public Health course. This course is designed to give students the opportunity to apply three specific CEPH MPH Foundational Competencies related to the Field Experience. The Field Experience setting provides students with opportunities to integrate these competencies through their projects, observe professionals in their organizations and the community, and learn important skills in these three areas. The required competencies are:

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**#21.** Integrate perspectives from other sectors and/or professions to promote and advance population health (direct engagement between student[s] and individual[s] in a sector or profession other than public health to complete a task or solve a problem).

Students fulfill these competencies with readings and through a series of activities including case studies or scenarios/role playing exercises. Assessments for the leadership, negotiation and interprofessional team competencies include participation in the sessions and written papers. The Leadership in Public Health course is offered in the summer and fall semesters. All four Field Experience and Leadership course credits may be taken in one semester or spread out over two semesters.

### Capstone

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. The capstone project is an opportunity for students to synthesize and demonstrate public health competencies. Capstone projects can vary by track and usually include analysis of information and data. The projects also include a comprehensive literature review as required by track.

Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student's interests and career goals. Students then implement the project during their final semester of the program. The project has both written paper and oral

presentation components. In addition, students attend several weekly seminars.

### Nutrition and Dietetics Concentration

Code	Title	Credits
NUTR 430G	Advanced Nutrition and Metabolism	3
NUTR 555G	Public Health Nutrition and Food Politics	3
NUTR 574G	Obesity and Weight Management	3
NUTR 701	Nutrition Counseling	3
NUTR 702	Advanced Nutrition Education	3
NUTR 703	Culinary Medicine for Nutrition & Dietetic Professionals	3
NUTR 704	Current and Emergent Issues in Nutrition & Dietetics	1
NUTR 721	Medical Nutrition Therapy I	4
NUTR 722	Medical Nutrition Therapy II	4
NUTR 795	Food Systems Management & Field Experience	5
NUTR 796	Medical Nutrition Therapy Field Experience	5
NUTR 800	Professional Preparation in Nutrition & Dietetics	2
<b>Total Credits</b>		<b>39</b>

### Additional Requirements

#### Faculty Advisor

Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student. If deemed necessary, any student can petition to the Zilber Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the MPH Program.

#### Thesis

Not required. See capstone for similar culminating experience.

#### Comprehensive Examination

Not required. See capstone for similar culminating experience.

#### Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Public Health, MPH: Public Health Policy

Public health policy includes local, state, and federal policies that directly or indirectly impact the level and distribution of health in the population. At the Zilber School, we take a broad inter-sectoral view that includes a "Health in All Policies" approach. This framework recognizes that the level and distribution of health and wellbeing in the population are

fundamentally shaped by public policies that create the social and economic conditions that underlie population health and health equity.

### What makes our program distinct?

The Public Health Policy (PHP) track is nationally distinct in its inter-sectoral, systems-level, and justice focused curriculum. Emphasizing the social, political, and economic determinants of health, students in the PHP track gain foundational understanding of social and policy theories, and their relevance to public health practice and policymaking in various contexts.

The PHP track also uniquely trains students in both quantitative, econometric policy analysis and qualitative research methods, with application to real-world public health policy problems.

## Related Certificate

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Like most MPH programs, the Zilber CPH's program imparts knowledge and skills in each of these core disciplines in public health, helping prepare all students to analyze information and consider solutions to public health problems using a social justice lens at the community, institutional, and societal levels. Courses have been designed to teach program- and track-level competencies as defined by Zilber CPH faculty. Program-level competencies reflect key public health skills including systems thinking, ethics, analytical methods, communications/informatics, diversity/culture, leadership, and professionalism. In addition, students engage in a specific track of study, gaining deeper competency in one of the six areas. Upon graduation students are prepared for positions in a range of public/population health and healthcare settings and/or for doctoral-level study.

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PH 708	Health Systems and Population Health	3
PH 733	Overview of Qualitative Methods for Public Health <sup>1</sup>	1
PH 790	Field Experience in Public Health (See following section for details) <sup>2</sup>	3
PH 791	Leadership in Public Health	1

PH 800	Capstone in Public Health (See following section for details) <sup>3</sup>	2
<b>Total Credits</b>		<b>25</b>

<sup>1</sup> Required for students in the Biostatistics, Environmental Health Science, Epidemiology, and Nutrition and Dietetics Tracks. Community and Behavioral Health Promotion Track students who take a qualitative methods course and Public Health Policy Track students would be exempt.  
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<sup>3</sup> Satisfactory/Unsatisfactory; completed in the final semester of study.

## Field Experience

The Field Experience enables students to apply knowledge and skills learned in the classroom to public health problems in a community context. Students work with their Faculty Advisor and college staff to identify a placement that matches their public health interests and career goals. Possible placement settings include a local health department, state health department, non-profit agency, hospital system, or research institute. Students in the Nutrition and Dietetics track will be provided with specific placement(s) by the program. The experience is a mentored placement engaging both a faculty advisor and a site preceptor. Students complete at least two products as agreed upon with the site preceptor. This course is offered in the summer, fall, and spring semesters.

Students complete three credits (80 contact hours per one credit, 240 hours total) with the organization. The specified competencies, scope of work, and final products for the organization are defined in a learning agreement, which is signed by the student, preceptor, faculty advisor and course instructor. Students must demonstrate attainment of at least five competencies, three of which must be Council on Education for Public Health (CEPH) MPH Foundational Competencies (see Field Experience Handbook), and two of which are identified from the track competency sets.

The following two CEPH MPH Foundational Competencies are required of all students:

**#16.** Apply leadership and/or management principles to address a relevant issue (may include creating a vision, empowering others, fostering collaboration, and guiding decision making).

**#19.** Communicate audience-appropriate (i.e., non-academic, non-peer audience) public health content, both in writing and through oral presentation.

Students choose their third Foundational Competency.

Students enrolled in the Nutritional and Dietetics track will be required to demonstrate attainment of select competencies from the Accreditation Council for Education in Nutrition and Dietetics (ACEND) during Field Experience in Public Health. Nutrition and Dietetics students will be required to meet the 3-credit requirement for Field Experience in Public Health in one semester and complete additional field experience program requirements in food systems management and medical nutrition therapy.

In addition, students take the one-credit Leadership Public Health course. This course is designed to give students the opportunity to apply three specific CEPH MPH Foundational Competencies related to the Field Experience. The Field Experience setting provides students with

opportunities to integrate these competencies through their projects, observe professionals in their organizations and the community, and learn important skills in these three areas. The required competencies are:

**#16.** Apply leadership and/or management principles to address a relevant issue (may include creating a vision, empowering others, fostering collaboration, and guiding decision making).

**#17.** Apply negotiation and mediation skills to address organizational or community challenges (among parties with conflicting interests and/or different desired outcomes).

**#21.** Integrate perspectives from other sectors and/or professions to promote and advance population health (direct engagement between student[s] and individual[s] in a sector or profession other than public health to complete a task or solve a problem).

Students fulfill these competencies with readings and through a series of activities including case studies or scenarios/role playing exercises. Assessments for the leadership, negotiation and interprofessional team competencies include participation in the sessions and written papers. The Leadership in Public Health course is offered in the summer and fall semesters. All four Field Experience and Leadership course credits may be taken in one semester or spread out over two semesters.

## Capstone

The capstone requires students to integrate the knowledge and skills learned in the classroom, Field Experience, and/or lab into some aspect of professional public health practice. The capstone project is an opportunity for students to synthesize and demonstrate public health competencies. Capstone projects can vary by track and usually include analysis of information and data. The projects also include a comprehensive literature review as required by track.

Students work with their Faculty Advisor to write a project proposal the semester prior to the capstone reflecting the student's interests and career goals. Students then implement the project during their final semester of the program. The project has both written paper and oral presentation components. In addition, students attend several weekly seminars.

## Public Health Policy Concentration

Code	Title	Credits
<b>Required Courses</b>		
PH 776	Qualitative Approaches in Public Health Policy	3
PH 777	Quantitative Research Methods for Public Health Policy	3
PH 779	Public Health Policymaking and Policy Analysis	3
PH 785	Principles of Public Health Economics	3
<b>Electives (see table below)</b>		<b>12</b>
<b>Total Credits</b>		<b>24</b>

### Electives

Code	Title	Credits
<b>Content</b>		
Select one of the following courses:		
ED POL 630G	Race, Ethnicity, and Public Policy in Urban America	3

PH 700	Structures of Inequality and Population Health	3
PH 719	Social Justice in Public Health	3
PH 730	Overview of Children with Special Health Care Needs	3
PH 752	Public Health and Mental Health	3
PH 769	Critical Perspectives on Nutritional Epidemiology and the Food System	3
PH 784	Social and Economic Policy as Health Policy	3
PH 820	Maternal and Child Health Foundations, Policy and Practice	3
PH 859	Racial/Ethnic Health Disparities in the United States	3

Other courses as approved by advisor.

### Methods and Practice 9

Select three of the following courses:

BUS ADM 755	Health Care Administration and Delivery Systems	3
BUS ADM 766	Marketing for Nonprofit Organizations	3
ED POL 601	Foundations of Community-Based Organizations	3
ED POL 602	Proposal Writing and Fundraising Skills for Community-Based Organizations	3
NONPROF 791	Nonprofit Advocacy and Public Policy	3
PH 726	Community Health Assessment	3
PH 727	Program Planning & Implementation in Public Health	3
PH 728	Program Evaluation in Public Health	3
PH 729	Survey Research Methods in Public Health	3
PH 763	Epidemiology for Equity	3
PUB ADM 630	Budgeting and Finance in the Public Sector	3
PUB ADM 763	Scope and Dynamics of Public Administration	3
URBPLAN 791	Introduction to Urban Geographic Information Systems for Planning	3

Other courses as approved by advisor.

## Additional Requirements

### Faculty Advisor

Each student will be assigned a track-specific Faculty Advisor during Orientation week preceding the first semester. Faculty Advisors assist the student in the development of an individual Plan of Study designed to advance the career goals of the student and be consistent with the track curriculum. The Advisor plays an important role in connecting the Field Experience, Capstone, and career goals for each student. If deemed necessary, any student can petition to the Zilber Office of Academic and Student Affairs for a reassignment of Faculty Advisor. Program track faculty will make every effort to accommodate requests to give all students opportunities for success in the MPH Program.

### Thesis

Not required. See capstone for similar culminating experience.

## Comprehensive Examination

Not required. See capstone for similar culminating experience.

## Time Limit

The student must complete all degree requirements within seven years of initial enrollment.

## Accelerated Program Option

This program is offered as part of an accelerated graduate program. For more information, see Accelerated Graduate Degrees (p. 37).

## Public Health, PhD: Biostatistics

### Related Certificate

- Interprofessional Graduate Certificate in Public and Population Health (p. 1345)

The Biostatistics doctoral program is designed to train students in the development of techniques, methods and tools to conduct public health research using rigorous statistical, bioinformatics and general quantitative methods.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants to the PhD program in Public Health with a concentration in Biostatistics should have completed academic programs that facilitated development of solid analytical skills. Applicable baccalaureate programs include mathematics, statistics, computer science, and engineering. Baccalaureate degrees in related fields will be considered. A minimum undergraduate grade point average of 3.00 (A=4.00) is required. Applicants from diverse backgrounds are encouraged to apply. Each application will be evaluated individually primarily on the basis of academic achievement, although relevant work experience will also be considered.

Applicants to the PhD program in Public Health with a concentration in Community and Behavioral Health Promotion should have completed academic programs that facilitated development of solid analytical and communication skills. Applicable baccalaureate programs include those in the social and behavioral sciences, health and health-related sciences, and biological sciences. Baccalaureate degrees in related fields will be considered. At least one statistics course is preferred for admission. A minimum undergraduate grade point average of 3.00 (A=4.00) is preferred. While a completed master's degree in public health or the social and behavioral sciences is encouraged, a master's degree is not a prerequisite for admission. For those applicants without a master's degree in a relevant field, most successful candidates will have work, research and/or volunteer experiences that contribute to career development in community health and health promotion. Demonstrated communication and analytic skills are required. Applicants from diverse backgrounds with a strong interest in community health and health



promotion are encouraged to apply. Each application will be evaluated individually on the basis of four key areas:

1. Academic record/achievement.
2. Work, research, and/or community experience.
3. Commitment/interest/awareness of public health and community health promotion.
4. Matching interest with current Community and Behavioral Promotion Health faculty.

Graduate Record Examination (GRE) scores from the general test (verbal, quantitative, analytical writing) are required of all applicants. Submitted test scores must be from a test taken within 5 years of the date of application. While there is not a minimum GRE score requirement, strong quantitative, verbal and writing skills are critical to successfully completing the program.

Students must meet UWM Graduate School admission requirements. For international applicants whose native language is not English, the UW-Milwaukee Center for International Education Website provides English Language Proficiency Requirements including required TOEFL or IELTS scores. Students who attended an international university must also pay an additional fee for evaluation of international transcripts.

In addition, a personal statement, and at least three letters of recommendation from individuals familiar with the applicant's scholarship, research achievements, and/or academic potential are required for the application. The letters of recommendation should address the candidate's potential for achievement in a graduate program from an academic as well as personal (e.g., commitment, integrity, ethical) standpoint. At least one letter must be from a university faculty member.

A select group of the most qualified candidates will be invited to participate in an interview process. In-person or internet-facilitated interviews (Skype, etc.) will be required for finalist candidates prior to admission.

Applicants may be admitted with course deficiencies at the discretion of the Zilber College of Public Health Graduate Program Committee. The student is expected to rectify these course deficiencies with a grade of B or better within three enrolled semesters. The academic program unit will monitor deficiencies. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For students entering with an advanced degree, the Admissions Committee can grant credit for relevant coursework at its discretion, but at least half of the graduate credits required for the PhD must be completed at UW-Milwaukee in doctoral status in accordance with Graduate School policy. Thesis, dissertation, and research credits must be completed at UW-Milwaukee.

## Reapplication

A student who receives the Master of Public Health degree must formally reapply to the Zilber College of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

## Credits and Courses

### Biostatistics Concentration

Minimum degree requirement is 60 graduate credits beyond the bachelor's degree (plus an additional 9 credits dedicated to dissertation writing and research), at least 35 of which must be earned in residence at UWM. The student, in consultation with the major professor, must

create a plan of study and submit to the Biostatistics Faculty by the end of the first year. Minimum course requirements for all work requires approximately two to three full years of study.

Code	Title	Credits
<b>Required Core PhD Courses</b>		
PH 704	Principles and Methods of Epidemiology	3
PH 711	Intermediate Biostatistics	3
PH 801	Seminar in Public Health Research	3
PH 819	Social and Environmental Justice in Public Health	3
<b>Required Methods Courses</b>		
MATH 783	Introduction to Probability Models (not both)	3
or MATH 883	Theory of Probability	
MTHSTAT 871	Mathematical Statistics I	3
MTHSTAT 872	Mathematical Statistics II	3
PH 718	Data Management and Visualization in R	3
PH 813	Practice of Biostatistical Consulting	3
PH 818	Statistical Computing	3
PH 911	Generalized Linear Models (T)	3
<b>Research</b>		<b>9</b>
PH 990	Research and Dissertation	
<b>Electives (see table below)</b>		<b>27</b>
<b>Total Credits</b>		<b>69</b>
<b>Electives</b>		
Code	Title	Credits
BIO SCI 490	Molecular Genetics	3
COMPSCI 708	Scientific Computing	3
COMPSCI 711	Introduction to Machine Learning	3
MATH 884	Stochastic Calculus and Applications	3
MTHSTAT 564	Time Series Analysis	3
MTHSTAT 565	Nonparametric Statistics	3
MTHSTAT 869	Advanced Topics in Mathematical Statistics:	3
PH 714	Statistical Genetics and Genetic Epidemiology	3
PH 715	Applied Categorical Data	3
PH 716	Applied Survival Analysis	3
PH 717	Applied Longitudinal Data Analysis	3
PH 720	Special Topics in Biostatistics:	1-3
PH 721	Introduction to Translational Bioinformatics	3
PH 723	Design, Conduct and Analysis of Clinical Trials	3
PH 758	Social Epidemiology	3
PH 762	Environmental Epidemiology	3
PH 768	Cancer Epidemiology	3
PH 769	Critical Perspectives on Nutritional Epidemiology and the Food System	3
PH 811	Causal Inference	3

Other courses as approved by advisor.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The entering student is assigned an advisor/major professor at admission based on fit and focus. The major professor serves as the student's research mentor and will guide the student in course selection, program planning, and research design. Students may change their advisor/major professor if the fit and focus change over time. Such changes will need approval of the graduate program committee. The major professor must have graduate faculty status.

### Residence

The student must meet minimum Graduate School residence requirements.

### Preliminary Exam Process

The preliminary exams must be successfully completed within five years of initial enrollment in the Ph.D. program.

Students must successfully complete a preliminary examination process before formally achieving dissertator status. When the student is sufficiently prepared, a doctoral preliminary examination to determine the student's knowledge and achievement is taken. The exam evaluates the student's general knowledge of mathematical statistics, and general biostatistical and quantitative methods. Students must pass this examination to continue in the program. With permission of the examination committee, the student may repeat this examination once within one year. After successful completion of the qualifying process, the student will concentrate on the development of the dissertation.

### Time Limit

All degree requirements must be completed within ten years from the date of initial enrollment in the doctoral program.

## Public Health, PhD: Community and Behavioral Health Promotion

### Related Certificate

- Interprofessional Graduate Certificate in Public and Population Health (<http://uwm.edu/graduateschool/interprofessional-graduate-certificate-in-public-and-population-health/>)

The Community and Behavioral Health Promotion (CBHP) doctoral program is designed to train students in social and behavioral science aspects of public health research and intervention with a particular emphasis on the development of community-level interventions. Faculty interest areas include: maternal, infant, and child health; health disparities; obesity; nutrition; food security; HIV and STD prevention; adolescent health; violence prevention; substance abuse prevention; creating healthy environments; and promoting mental health. Students will prepare for public health leadership through their own original research.

## Admission Requirements

### Application Deadlines

Application deadlines vary by program, please review the application deadline chart (<http://uwm.edu/graduateschool/program-deadlines/>) for specific programs. Other important dates and deadlines can be found by using the One Stop calendars (<https://uwm.edu/onestop/dates-and-deadlines/>).

### Admission

Applicants to the PhD program in Public Health with a concentration in Biostatistics should have completed academic programs that facilitated development of solid analytical skills. Applicable baccalaureate programs include mathematics, statistics, computer science, and engineering. Baccalaureate degrees in related fields will be considered. A minimum undergraduate grade point average of 3.00 (A=4.00) is required. Applicants from diverse backgrounds are encouraged to apply. Each application will be evaluated individually primarily on the basis of academic achievement, although relevant work experience will also be considered.

Applicants to the PhD program in Public Health with a concentration in Community and Behavioral Health Promotion should have completed academic programs that facilitated development of solid analytical and communication skills. Applicable baccalaureate programs include those in the social and behavioral sciences, health and health-related sciences, and biological sciences. Baccalaureate degrees in related fields will be considered. At least one statistics course is preferred for admission. A minimum undergraduate grade point average of 3.00 (A=4.00) is preferred. While a completed master's degree in public health or the social and behavioral sciences is encouraged, a master's degree is not a prerequisite for admission. For those applicants without a master's degree in a relevant field, most successful candidates will have work, research and/or volunteer experiences that contribute to career development in community health and health promotion. Demonstrated communication and analytic skills are required. Applicants from diverse backgrounds with a strong interest in community health and health promotion are encouraged to apply. Each application will be evaluated individually on the basis of four key areas:

1. Academic record/achievement.
2. Work, research, and/or community experience.
3. Commitment/interest/awareness of public health and community health promotion.
4. Matching interest with current Community and Behavioral Promotion Health faculty.

Graduate Record Examination (GRE) scores from the general test (verbal, quantitative, analytical writing) are required of all applicants. Submitted test scores must be from a test taken within 5 years of the date of application. While there is not a minimum GRE score requirement, strong quantitative, verbal and writing skills are critical to successfully completing the program.

Students must meet UWM Graduate School admission requirements. For international applicants whose native language is not English, the UW-Milwaukee Center for International Education Website provides English Language Proficiency Requirements including required TOEFL or IELTS scores. Students who attended an international university must also pay an additional fee for evaluation of international transcripts.

In addition, a personal statement, and at least three letters of recommendation from individuals familiar with the applicant's scholarship, research achievements, and/or academic potential are required for the application. The letters of recommendation should address the candidate's potential for achievement in a graduate program from an academic as well as personal (e.g., commitment, integrity, ethical) standpoint. At least one letter must be from a university faculty member.

A select group of the most qualified candidates will be invited to participate in an interview process. In-person or internet-facilitated interviews (Skype, etc.) will be required for finalist candidates prior to admission.

Applicants may be admitted with course deficiencies at the discretion of the Zilber College of Public Health Graduate Program Committee. The student is expected to rectify these course deficiencies with a grade of B or better within three enrolled semesters. The academic program unit will monitor deficiencies. No course credits earned in making up deficiencies may be counted as program credits required for the degree. For students entering with an advanced degree, the Admissions Committee can grant credit for relevant coursework at its discretion, but at least half of the graduate credits required for the PhD must be completed at UW-Milwaukee in doctoral status in accordance with Graduate School policy. Thesis, dissertation, and research credits must be completed at UW-Milwaukee.

### Reapplication

A student who receives the Master of Public Health degree must formally reapply to the Zilber College of Public Health to gain admission to the PhD program in Public Health before continuing studies toward the PhD.

## Credits and Courses

### Community and Behavioral Health Promotion Concentration

A minimum of 72 credits of coursework beyond the bachelor's level must be completed to earn the degree, at least 35 of which must be earned in residence at UW-Milwaukee. The course list consists of required common Ph.D. core courses, CBHP core courses, research and methods courses, and elective courses. Also, students will be required to complete three credits of supervised research under the tutelage of the primary advisor prior to the required dissertation research requirement. This is to ensure that all students obtain hands-on, supervised research training. After achieving dissertation status, students will enroll in three research credits per semester for at least two semesters.

Code	Title	Credits
<b>Required Core PhD Courses</b>		
PH 704	Principles and Methods of Epidemiology	3
Select one of the following courses:		3
PH 711	Intermediate Biostatistics <sup>1</sup>	
PH 759	Intro to Regression for Understanding the SDOH	
SOC WRK 962	Applied Multiple Regression Analysis	
PH 801	Seminar in Public Health Research	3
PH 819	Social and Environmental Justice in Public Health	3
or PH 859	Racial/Ethnic Health Disparities in the United States	

### CBHP PhD Required Courses

PH 702	Introduction to Biostatistics	3
PH 725	Theories and Models of Health Behavior	3
PH 727	Program Planning & Implementation in Public Health	3
PH 728	Program Evaluation in Public Health	3
PH 729	Survey Research Methods in Public Health	3
PH 776	Qualitative Approaches in Public Health Policy <sup>2</sup>	3
PH 820	Maternal and Child Health Foundations, Policy and Practice	3
PH 823	Applied Analysis of Binary Outcomes in Public Health Research	3
PH 826	Principles of Community Intervention Research	3
PH 827	Research Design in Community and Behavioral Health Promotion	3
PH 831	Community Engagement and Participatory Research Approaches in Public Health	3
PH 919	Core Seminar in Community and Behavioral Health Promotion	3

### Required Advanced Quantitative Courses <sup>3</sup>

Select one of the following courses:		3
ED PSY 823	Structural Equation Modeling	
ED PSY 826	Analysis of Cross-Classified Categorical Data	
PH 715	Applied Categorical Data	
PH 716	Applied Survival Analysis	
PH 717	Applied Longitudinal Data Analysis	
SOCIOL 982	Advanced Quantitative Analysis	

<b>Research</b>		<b>12</b>
Pre-Dissertation Research		
PH 990	Research and Dissertation (Doctoral Thesis)	

<b>Electives (see below)</b>		<b>9</b>
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<b>Total Credits</b>		<b>72</b>
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### Electives

Code	Title	Credits
Select three of the following courses:		
ANTHRO 744	Theories of Social Action: Theater, Ritual, Game	3
ANTHRO 803	Survey of Cultural Anthropology	3
HS 917	Seminar in Health Outcomes Assessment	3
PH 752	Public Health and Mental Health	3
PH 758	Social Epidemiology	3
PH 768	Cancer Epidemiology	3
PH 769	Critical Perspectives on Nutritional Epidemiology and the Food System	3
SOC WRK 705	Individual Behavior and Social Welfare	3
SOCIOL 910	The Sociology of Inequality	3
SOCIOL 982	Advanced Quantitative Analysis	3

SOCIOL 715 Systematic Sociological Theory 3

Other courses as approved by advisor.

<sup>1</sup> Prereq: PH 702 Introduction to Biostatistics or approval for equivalent course.

<sup>2</sup> Or other qualitative analysis course approved by advisor.

<sup>3</sup> Other advanced quantitative courses will be considered.

## Additional Requirements

### Major Professor as Advisor

The student must have a major professor to advise and supervise the student's studies as specified in Graduate School regulations. The entering student is assigned an advisor/major professor at admission based on fit and focus. The major professor serves as the student's research mentor and will guide the student in course selection, program planning, and research design. Students may change their advisor/major professor if the fit and focus change over time. Such changes will need approval of the graduate program committee. The major professor must have graduate faculty status.

### Residence

The student must meet minimum Graduate School residence requirements.

### Preliminary/Qualifying Exam Process

The qualifying exams must be successfully completed within five years of initial enrollment in the Ph.D. program.

The preliminary exam is designed to assess a student's mastery of knowledge and skills to ensure adequate preparation for individual dissertation research. Students taking the preliminary exam are expected to demonstrate knowledge, competency and mastery of core public health concepts, issues and content relevant to the CBHP PhD Program. The preliminary exam consists of three sections: an open book integrative review, a closed book exam focusing on a case study, and an oral exam. (Please refer to the CBHP Qualifying Exam Policies and Procedures.) At the discretion of the examining committee, a student who fails the qualifying process may be allowed one additional attempt with all or part of the examination. After successful completion of the qualifying process, the student will concentrate on the development of the dissertation.

### Time Limit

The student must complete all requirements for the degree within 10 years of the date of initial enrollment in the program.

## Public Health, Undergraduate Certificate

***Do you want to make a difference in the health and well-being of communities? If yes, the undergraduate Certificate in Public Health is for you!***

This certificate offers impactful training for individuals working in many fields, including health care, nursing, social welfare, education, criminal justice, sociology, government, environmental sciences, and community advocacy.

## With a Public Health Certificate:

- You will **learn** public health approaches that you can apply to your work with communities, the environment, and in support of social justice.
- You will **connect** with like-minded peers and enjoy one-on-one attention from instructors in smaller classes.
- You will **develop skills** for diagnosing and solving pressing public health issues.

Public health improves the health of people and the communities where they grow, live, work, play, and age. Instead of treating individual patients, public health practitioners prevent disease before it starts. We work in and with communities to foster health and well-being for everyone.

The undergraduate certificate in Public Health at UWM is designed for you if you're interested in applying public health concepts, methods, approaches, and skills in your current or future career.

## How the Certificate Works:

Students in the Public Health certificate program take courses from top faculty and instructors in the UWM Zilber College of Public Health—the only Council on Education for Public Health (CEPH) accredited school of public health in Wisconsin. Our faculty and instructors are experts in their fields and enjoy sharing their knowledge and passion about public health with our students.

### This 18-credit certificate includes:

- Three required courses in public health, global health, and epidemiology.
- Three elective courses that allow specialization in environmental health, public health research methods, health disparities, or creating and evaluating public health programs. Or mix and match!
- Some courses that also count for General Education Requirements.

**Want to give public health a try?** Enroll in PH 101 Introduction to Public Health - it's one of the three required courses for the Certificate and satisfies GER-SS.

### Who is Eligible?

- All UWM students seeking a bachelor's degree with a current overall GPA of 2.0.
- Students who previously received a bachelor's degree from UWM or other accredited college or university.
- Non-degree students who meet University admission requirements.

**Interested in this certificate?** Email [bs-ph@uwm.edu](mailto:bs-ph@uwm.edu) or contact Zilber College of Public Health undergraduate advising (<https://uwm.edu/publichealth/students/undergraduate-advising/>).

## Requirements

**Students must declare their intent to pursue this certificate.** The Zilber College academic advisors provide vital information and guidance to help students make informed decisions about their elective courses. Students are encouraged to meet with a Public Health advisor at least once each semester. To schedule an advising appointment, contact Zilber College of Public Health undergraduate advising (<https://uwm.edu/publichealth/students/current/undergraduate-advising/>).

The curriculum consists of three required core courses (9 credits) and three elective courses (9 credits) for 18 credits total.<sup>1</sup>

Code	Title	Credits
<b>Core courses (9 credits)</b>		
PH 101	Introduction to Public Health	3
PH 304	Foundations of Epidemiology <sup>1</sup>	3
Select <b>one</b> of the following:		3
PH 142	Exploring Global Environmental Health	
NURS 301	Introduction to Global Health <sup>2</sup>	
<b>Electives</b>		
Select three (3) courses <sup>3</sup>		9
PH 201	Public Health from Cells to Society I	
PH 202	Public Health from Cells to Society II	
PH 302	Health and Disease: Concepts and Contexts	
PH 303	Climate Change, the Environment and Human Health	
PH 306	Adolescent Health & Development	
PH 319	Introduction to Health Disparities	
PH 327	Foundations for Action in Public Health	
PH 346	Environmental Health and Disease	
PH 355	Public Health Research Methods I	
PH 375	Topics in Public Health:	
PH 408	Comparative Health Systems: A Social Determinants Approach	
PH 410	True Lies: Consuming and Communicating Quantitative Information	
PH 427	Strategies for Action in Public Health	
PH 428	Program Implementation & Evaluation for a Healthy Society	
PH 455	Public Health Research Methods II	
PH 478	Public Health Research Using Social Media	
PH 699	Independent Study <sup>4</sup>	
Other Study Abroad public health courses approved by Zilber School academic advisor		
Other public health courses approved by Zilber School academic advisor		
<b>Total Credits</b>		<b>18</b>

<sup>1</sup> Prereq=KIN 270(C), SOCIOL 261(C), or comparable QLB statistics course(C).

<sup>2</sup> Equivalent to NURS 110.

<sup>3</sup> Some courses have additional prerequisite(s) – please discuss with your Public Health Advisor.

<sup>4</sup> A maximum of 3 credits in PH 699: Independent Study may be applied to the Public Health Certificate.

### Continuation and Exit Requirements

To obtain the certificate, the student must complete, with a minimum grade point average of 2.500, at least 18 credits in approved Public Health Certificate courses, of which 12 must be earned in residence at UWM. A maximum of 3 credits of PH 699: Independent Study may count toward

Certificate requirements. Certificate courses may not be taken on a credit/no credit basis.

### Transfer Credit

Credits earned at other accredited institutions within the last three years that are shown to be equivalent to courses in the Certificate program may be accepted in partial fulfillment of the program requirements, subject to review by the Zilber College academic advisor and/or Undergraduate Program Director.

Students currently enrolled at UWM who have fulfilled some of the program's requirements prior to the approval of this program may count those courses toward completion of the Certificate requirements.

### Awarding the Certificate

Students currently involved in baccalaureate studies who successfully complete the requirements of the program will be awarded the Certificate at the time of graduation. Non-degree students or those who already have a bachelor's degree will receive the Certificate upon completion of the program requirements. Awarding of the certificate program will be noted on the student's official transcript.

### Admission

The Public Health Certificate is available to all UWM students seeking a bachelor's degree who have a current overall GPA of 2.0, to students who previously received a bachelor's degree from UWM or any other accredited college or university, and to those who do not plan to pursue a college or university degree (non-degree students) but want to gain skills and knowledge in public health. Non-degree students are not eligible for financial aid and must meet University admission requirements.

## Study of Complementary and Integrative Health Approaches, Undergraduate Certificate

Complementary and Integrative Health Approaches (CIH) are important components of the American health care system and support a focus on health and wellness. Students who complete the Certificate in CIH will learn to advocate for patient-centered and healing-oriented care, emphasize the therapeutic relationship, and use therapeutic approaches originating from conventional and alternative medicine. Health and wellness, mind and body, and natural products are key areas of focus within this certificate. Current and future professionals in health, wellness, exercise, and sport, will benefit from competency in understanding and critically evaluating practices considered as complementary and alternative or integrative.

The CIH certificate program provides an educational foundation in the broad use of complementary and integrative practices. Through coursework, learners explore and evaluate the most common forms of CIH, study the history and cultural applications of CIH practices, examine evidence-based and ethical use of CIH, and critically evaluate CIH information and research. Completion of the CIH certificate provides basic scientific knowledge and skills to critically evaluate the current and future use of integrative health, wellness, and fitness practices.

**Note:** Students must declare their intent to pursue this academic certificate. Professional advisors provide information and guidance to help students make informed educational decisions. Students are encouraged to meet with an advisor at least once each semester.

## Requirements

To earn the academic certificate, a minimum GPA of 2.5 is required in the 15 credits.

Course offerings are subject to change.

Code	Title	Credits
<b>Required</b>		
BMS 260	Introduction to Complementary and Integrative Health Approaches <sup>1</sup>	3
KIN 365	Health Aspects of Mind and Body Practices <sup>1</sup>	3
KIN 368	Intervention Strategies in Complementary and Integrative Health Approaches <sup>1</sup>	3
KIN 400	Ethics and Values in the Health and Fitness Professions <sup>1</sup>	3
<b>Electives</b>		
Select 3 credits (see below)		3
<b>Total Credits</b>		<b>15</b>

<sup>1</sup> Online offering available.

## Electives

Code	Title	Credits
<b>General Focus</b>		
BMS 245	Client Diversity in Health Sciences: An Interdisciplinary Perspective <sup>1</sup>	3
COMMUN 381	Health Communication <sup>1</sup>	3
PHILOS 244	Ethical Issues in Health Care: <sup>1</sup>	3
PSYCH 254	Introduction to Neuroscience	3
SOCIOL 331	Sociology of Health Care	3
<b>Health and Wellness Focus</b>		
BMS 232	Introduction to Nutrition <sup>1</sup>	3
NUTR 241	Why We Eat What We Eat: An Ecological Approach	3
KIN 556	Multilevel Approaches to Changing Physical Activity and Eating Behaviors	3
NUTR 235	Introduction to Nutrition for the Health Professions	3
NUTR 245	Life Cycle Nutrition	3
NUTR 355	Modifying Nutrition and Eating Behavior	3
<b>Active Learning (Experience) Focus</b>		
FITWELL 296	Exercise and Fitness Activities: (Energy Vinyasa Yoga)	1
FITWELL 298	Meditation, Relaxation, and Wellness: (Mind Body Awareness)	2
FITWELL 298	Meditation, Relaxation, and Wellness: (Meditation with a Touch of Yoga)	2
FITWELL 298	Meditation, Relaxation, and Wellness: (Running with the Mind of Meditation)	2
FITWELL 298	Meditation, Relaxation, and Wellness: (The Art of Healing: Introduction to Self-Care Practices)	1

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<sup>1</sup> Online offering available.

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## Actuarial Science (ACTSCI)

### ACTSCI 290 Introduction to Actuarial Science

3 cr. Undergraduate.

Overview of the actuarial profession, financial risks, and types of insurance products; risk components; and risk evaluation methods.

**Prerequisites:** Satisfaction of Quantitative Literacy Part A GER.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 391 Investment Mathematics I

4 cr. Undergraduate.

Examination of annuities, loans, bonds, portfolio immunization, and interest rate swaps. Foundational preparation for the Financial Mathematics (FM) Professional Actuarial Exam.

**Prerequisites:** a grade of C or better in MATH 211(P) or MATH 232(P).

**Course Rules:** Previously MATH 311.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 490 Introduction to Actuarial Practice

1 cr. Undergraduate.

Professional topics such as healthcare, pensions, life insurance, property and casualty, reinsurance, and regulation.

**Prerequisites:** ACTSCI 290(P).

**Course Rules:** May be retaken for cr once. Counts as repeat of MTHSTAT 591.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 491 Actuarial Workshop FM

1 cr. Undergraduate.

Continuation of topics from ACTSCI 391 along with practice and preparation for the Financial Mathematics (FM) Professional Actuarial Exam.

**Prerequisites:** ACTSCI 391(C) or consent of instructor.

**Course Rules:** Counts as a repeat of MTHSTAT 593. Retakeable up to 2 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 492 Actuarial Workshop P

1 cr. Undergraduate.

Continuation of probability topics from MTHSTAT 361 along with practice and preparation for the Probability (P) Professional Actuarial Exam.

**Prerequisites:** MTHSTAT 361(C) or consent of instructor.

**Course Rules:** Counts as a repeat of MTHSTAT 592. Retakeable up to 2 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 590 Actuarial Internship

1-6 cr. Undergraduate.

Apply principles and techniques of actuarial science in business, governmental and other appropriate settings.

**Prerequisites:** soph st; 6 cr 300-level or above in ACTSCI or MTHSTAT; GPA in ACTSCI and MTHSTAT courses at least 2.5.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 591 Investment Mathematics II

3 cr. Undergraduate.

Mathematical models in finance and economics, corporate finance.

**Prerequisites:** MTHSTAT 361(P); ACTSCI 391(P).

**Course Rules:** Counts as repeat of MTHSTAT 692.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 593 Actuarial Models I

3 cr. Undergraduate.

Long term insurance coverage, single life survival models, life insurance, annuities, benefit and premium random variables, mortality models.

**Prerequisites:** ACTSCI 391(P); MTHSTAT 361(P); MTHSTAT 362(C).

**Course Rules:** Counts as a repeat of MTHSTAT 691.

**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 594 Actuarial Models II

3 cr. Undergraduate.

Long term insurance coverage, single life survival models, life insurance, annuities, benefit and premium random variables, mortality models.

**Prerequisites:** ACTSCI 593(P); MTHSTAT 362(P).

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 596 Actuarial Statistics I

3 cr. Undergraduate.

Loss models for short term insurance and their statistical fitting.

**Prerequisites:** MATH 234(P) or MATH 240(P) and MTHSTAT 362(P).

**Course Rules:** Previously MTHSTAT 596.

**Last Taught:** Fall 2023, Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 597 Actuarial Statistics II

3 cr. Undergraduate.

Credibility theory, ratemaking, and reserving.

**Prerequisites:** MATH 234(P) or MATH 240(P) and MTHSTAT 362(P).

**Course Rules:** Previously MTHSTAT 597.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 599 Capstone Experience

1 cr. Undergraduate.

Independent research on current financial and insurance topics that are not covered in regular actuarial courses.

**Prerequisites:** senior standing.

**Course Rules:** May be retaken for cr once.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ACTSCI 790 Actuarial Internship

1-6 cr. Graduate.

Apply principles and techniques of actuarial science in business, governmental and other appropriate settings.

**Prerequisites:** graduate standing.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ACTSCI 791 Investment Mathematics II**

3 cr. Graduate.

Mathematical models in finance and economics, corporate finance.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ACTSCI 793 Actuarial Models I**

3 cr. Graduate.

Long term insurance coverage, single life survival models, life insurance, annuities, benefit and premium random variables, mortality models.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Fall 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ACTSCI 794 Actuarial Models II**

3 cr. Graduate.

Long term insurance coverage, single life survival models, life insurance, annuities, benefit and premium random variables, mortality models.

**Prerequisites:** grad st; ACTSCI 593(P); MTHSTAT 362(P).**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ACTSCI 796 Actuarial Statistics I**

3 cr. Graduate.

Loss models for short term insurance and their statistical fitting.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ACTSCI 797 Actuarial Statistics II**

3 cr. Graduate.

Credibility theory, ratemaking and reserving.

**Prerequisites:** graduate standing.**Last Taught:** Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ACTSCI 891 Actuarial Risk Theory**

3 cr. Graduate.

Risk models; premium principles; reinsurance contracts; ruin theory; ordering of risks; bonus-malus systems; IBNR techniques.

**Prerequisites:** grad st; MATH 571(P) & ACTSCI 596(P), or consent of instructor.**Course Rules:** Previously MTHSTAT 795.**Last Taught:** Spring 2022, Fall 2019, Fall 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ACTSCI 895 Topics in Actuarial Science:**

3 cr. Graduate.

Advanced topics in actuarial science.

**Prerequisites:** graduate standing; 6 credits of 700 level ACTSCI coursework.**Course Rules:** Repeatable to 9 credits max. Counts as a repeat of MTHSTAT 896 with a similar topic.**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Administrative Leadership (AD LDSP)

**AD LDSP 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** cons instr; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; cons instr; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; cons instr; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 507 Introduction to Group Leadership**

3 cr. Undergraduate/Graduate.

Concepts and theories of group and organizational leadership applied to problems of youth-serving organizations and student activities in secondary and post-secondary schools and colleges.

**Prerequisites:** jr st.**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 507G Introduction to Group Leadership**

3 cr. Undergraduate/Graduate.

Concepts and theories of group and organizational leadership applied to problems of youth-serving organizations and student activities in secondary and post-secondary schools and colleges.

**Prerequisites:** jr st.**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 517 Introduction to Adult Education Practice**

3 cr. Undergraduate/Graduate.

Objectives, organization and practices of postsecondary programs of lifelong learning, adult and continuing education, and community and public service programs.

**Prerequisites:** jr st.**Last Taught:** Fall 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 517G Introduction to Adult Education Practice**

3 cr. Undergraduate/Graduate.

Objectives, organization and practices of postsecondary programs of lifelong learning, adult and continuing education, and community and public service programs.

**Prerequisites:** jr st.**Last Taught:** Fall 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 537 Leadership and Management of Volunteer Programs**

3 cr. Undergraduate/Graduate.

Introduction to volunteers and organizations which utilize them. Course emphasizes practical application of leadership skills needed for effective management and training of volunteers.

**Prerequisites:** jr st.**Last Taught:** Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 537G Leadership and Management of Volunteer Programs**

3 cr. Undergraduate/Graduate.

Introduction to volunteers and organizations which utilize them. Course emphasizes practical application of leadership skills needed for effective management and training of volunteers.

**Prerequisites:** jr st.**Last Taught:** Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 547 The Educational Dimensions of Practice with Older Adults**

3 cr. Undergraduate/Graduate.

Current problems, issues and research relating to the development and organization of educational programs for older adults.

**Prerequisites:** jr st.**Last Taught:** Spring 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 547G The Educational Dimensions of Practice with Older Adults**

3 cr. Undergraduate/Graduate.

Current problems, issues and research relating to the development and organization of educational programs for older adults.

**Prerequisites:** jr st.**Last Taught:** Spring 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 557 Foundations and Philosophy of WTCS in Wisconsin**

3 cr. Undergraduate/Graduate.

History, philosophy, objectives, organization and legal bases for vocational education, with special emphasis given the movement in Wisconsin.

**Prerequisites:** jr st or vocational teachers or cons instr.**Last Taught:** Spring 2014, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 557G Foundations and Philosophy of WTCS in Wisconsin**

3 cr. Undergraduate/Graduate.

History, philosophy, objectives, organization and legal bases for vocational education, with special emphasis given the movement in Wisconsin.

**Prerequisites:** jr st or vocational teachers or cons instr.**Last Taught:** Spring 2014, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 567 Supervision and Planning for Vocational and Technical Education**

3 cr. Undergraduate/Graduate.

Social, economic, philosophical, and historical foundations of career education. Exploration of past, present and projected models. Strategies for program selection, community involvement, evaluation and management.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2013, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 567G Supervision and Planning for Vocational and Technical Education**

3 cr. Undergraduate/Graduate.

Social, economic, philosophical, and historical foundations of career education. Exploration of past, present and projected models. Strategies for program selection, community involvement, evaluation and management.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2013, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 577 Adult Literacy and Workforce Development**

3 cr. Undergraduate/Graduate.

Analyzes the problem of adult low literacy and its effects on work force development; presents alternative procedures for providing educational programs.

**Prerequisites:** jr st.**Last Taught:** Spring 2012, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 577G Adult Literacy and Workforce Development**

3 cr. Undergraduate/Graduate.

Analyzes the problem of adult low literacy and its effects on work force development; presents alternative procedures for providing educational programs.

**Prerequisites:** jr st.**Last Taught:** Spring 2012, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 579 Current Topics in Administrative Leadership:**

1-3 cr. Undergraduate/Graduate.

Current problems, issues and research in administrative leadership and supervision and their implications for practitioners.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to max of 9 cr.**Last Taught:** Fall 2011, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 579G Current Topics in Administrative Leadership:**

1-3 cr. Undergraduate/Graduate.

Current problems, issues and research in administrative leadership and supervision and their implications for practitioners.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to max of 9 cr.**Last Taught:** Fall 2011, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 581 Administration and Supervision in Early Childhood Programs**

3 cr. Undergraduate/Graduate.

Analyzes, from a quality perspective, the administrative roles and responsibilities of various early care and education programs, and the groups with whom they have relationships.

**Prerequisites:** junior standing.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 581G Administration and Supervision in Early Childhood Programs**

3 cr. Undergraduate/Graduate.

Analyzes, from a quality perspective, the administrative roles and responsibilities of various early care and education programs, and the groups with whom they have relationships.

**Prerequisites:** junior standing.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 582 Operations Management in Early Childhood Programs**

3 cr. Undergraduate/Graduate.

An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.

**Prerequisites:** junior standing; AD LDSP 581(P); or consent of instructor.**Course Rules:** AD LDSP 582 and ED POL 582 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2021, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 582G Operations Management in Early Childhood Programs**

3 cr. Undergraduate/Graduate.

An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.

**Prerequisites:** junior standing; AD LDSP 581(P); or consent of instructor.**Course Rules:** AD LDSP 582 and ED POL 582 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2021, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 583 Financial Management and Planning in Early Childhood Programs**

3 cr. Undergraduate/Graduate.

Identifies the principles of sound financial management and develops the ability to apply those principles to the financial planning and management of early childhood programs.

**Prerequisites:** junior standing & AD LDSP 581(P); or consent of instructor.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 583G Financial Management and Planning in Early Childhood Programs**

3 cr. Undergraduate/Graduate.

Identifies the principles of sound financial management and develops the ability to apply those principles to the financial planning and management of early childhood programs.

**Prerequisites:** junior standing & AD LDSP 581(P); or consent of instructor.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 586 Administrative Seminar: Leadership in Early Childhood Programs**

3 cr. Undergraduate/Graduate.

Integrates and applies the concepts and skills acquired in the first five courses as demonstrated in the development of a major project by each student.

**Prerequisites:** junior standing & AD LDSP 581(P); AD LDSP 582(P) or ED POL 582(P); AD LDSP 583(P); ED POL 584(P); and CURRINS 585(P).**Last Taught:** Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 586G Administrative Seminar: Leadership in Early Childhood Programs**

3 cr. Undergraduate/Graduate.

Integrates and applies the concepts and skills acquired in the first five courses as demonstrated in the development of a major project by each student.

**Prerequisites:** junior standing & AD LDSP 581(P); AD LDSP 582(P) or ED POL 582(P); AD LDSP 583(P); ED POL 584(P); and CURRINS 585(P).**Last Taught:** Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 587 Serving Multicultural and Special Needs Learners**

3 cr. Undergraduate/Graduate.

Examines the needs of multicultural and adult vocational special needs learners; explores strategies for revising instructional methods/ approaches and program development.

**Prerequisites:** jr st.**Last Taught:** Fall 2012, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 587G Serving Multicultural and Special Needs Learners**

3 cr. Undergraduate/Graduate.

Examines the needs of multicultural and adult vocational special needs learners; explores strategies for revising instructional methods/ approaches and program development.

**Prerequisites:** jr st.**Last Taught:** Fall 2012, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 591 Early Childhood Leadership: The Personal Disposition of a Leader**

3 cr. Undergraduate/Graduate.

Leadership definitions and skills and the role of vision, emotional intelligence, resilience, optimism and reflective practice for successful early childhood leaders.

**Prerequisites:** junior standing; completion of childcare credentials or consent of instructor.**Last Taught:** Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 591G Early Childhood Leadership: The Personal Disposition of a Leader**

3 cr. Undergraduate/Graduate.

Leadership definitions and skills and the role of vision, emotional intelligence, resilience, optimism and reflective practice for successful early childhood leaders.

**Prerequisites:** junior standing; completion of childcare credentials or consent of instructor.**Last Taught:** Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 592 Early Childhood Leadership: Leading in Your Program**

3 cr. Undergraduate/Graduate.

Leadership roles, responsibilities and skills necessary for leadership in staff development and excellence in early childhood programs.

**Prerequisites:** junior standing; completion of childcare credentials or consent of instructor.**Last Taught:** Spring 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 592G Early Childhood Leadership: Leading in Your Program**

3 cr. Undergraduate/Graduate.

Leadership roles, responsibilities and skills necessary for leadership in staff development and excellence in early childhood programs.

**Prerequisites:** junior standing; completion of childcare credentials or consent of instructor.**Last Taught:** Spring 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 593 Early Childhood Leadership: Leading in Your Community and the Field**

3 cr. Undergraduate/Graduate.

Leadership skills necessary for leadership in communities and the profession with a focus on collaboration, interconnections, relationships, transformation and advocacy.

**Prerequisites:** junior standing; completion of childcare credential or consent of instructor.**Last Taught:** Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 593G Early Childhood Leadership: Leading in Your Community and the Field**

3 cr. Undergraduate/Graduate.

Leadership skills necessary for leadership in communities and the profession with a focus on collaboration, interconnections, relationships, transformation and advocacy.

**Prerequisites:** junior standing; completion of childcare credential or consent of instructor.**Last Taught:** Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 594 Early Childhood Leadership: Leading for Change**

3 cr. Undergraduate/Graduate.

Transformational leadership, theories on change, action research, and advocacy strategies. Completion of action research project to effect change.

**Prerequisites:** junior standing; completion of childcare credential or consent of instructor.**Last Taught:** Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 594G Early Childhood Leadership: Leading for Change**

3 cr. Undergraduate/Graduate.

Transformational leadership, theories on change, action research, and advocacy strategies. Completion of action research project to effect change.

**Prerequisites:** junior standing; completion of childcare credential or consent of instructor.**Last Taught:** Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 597 Program Development in Occupational Education**

3 cr. Undergraduate/Graduate.

Technical, administrative, organizational, and participatory skills and knowledge associated with program development in occupational education for adults and adolescents.

**Prerequisites:** jr st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 597G Program Development in Occupational Education**

3 cr. Undergraduate/Graduate.

Technical, administrative, organizational, and participatory skills and knowledge associated with program development in occupational education for adults and adolescents.

**Prerequisites:** jr st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 598 Introduction to Workforce Education and Development**

3 cr. Undergraduate/Graduate.

Foundations of workforce education and development; nature and role of education in preparing individuals for work.

**Prerequisites:** jr st.**Last Taught:** Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 598G Introduction to Workforce Education and Development**

3 cr. Undergraduate/Graduate.

Foundations of workforce education and development; nature and role of education in preparing individuals for work.

**Prerequisites:** jr st.**Last Taught:** Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 605 Survey of Human Resource Development**

3 cr. Undergraduate/Graduate.

Introduction to human resource development theories, principles, concepts, and practices.

**Prerequisites:** sr st.**Last Taught:** Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 605G Survey of Human Resource Development**

3 cr. Undergraduate/Graduate.

Introduction to human resource development theories, principles, concepts, and practices.

**Prerequisites:** sr st.**Last Taught:** Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 607 Coordination of Staff Development and Training Program**

3 cr. Undergraduate/Graduate.

Provides knowledge and skills required for the design, coordination and administration of staff development and training programs.

**Prerequisites:** jr st.**Last Taught:** Summer 2020, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 607G Coordination of Staff Development and Training Program**

3 cr. Undergraduate/Graduate.

Provides knowledge and skills required for the design, coordination and administration of staff development and training programs.

**Prerequisites:** jr st.**Last Taught:** Summer 2020, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**AD LDSP 617 Leadership in Youth-Serving Organizations**

3 cr. Undergraduate/Graduate.

Introduction to the philosophy and operations of youth-serving organizations, administration of programs, and the role of youth-serving organizations in the larger community.

**Prerequisites:** jr st.

**Last Taught:** Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 617G Leadership in Youth-Serving Organizations**

3 cr. Undergraduate/Graduate.

Introduction to the philosophy and operations of youth-serving organizations, administration of programs, and the role of youth-serving organizations in the larger community.

**Prerequisites:** jr st.

**Last Taught:** Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 630 Field Work in Schools, Agencies and Institutions**

2-6 cr. Undergraduate/Graduate.

Field inquiry and experience in applied problems of administrative leadership in school administration, supervision or adult education in conjunction with seminar sessions to relate theory to practice.

**Prerequisites:** Ad Ldsp 517(P) or 702(P) or 757(657)(P); cons instr.

**Course Rules:** May be retaken to max of 6 cr.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 630G Field Work in Schools, Agencies and Institutions**

2-6 cr. Undergraduate/Graduate.

Field inquiry and experience in applied problems of administrative leadership in school administration, supervision or adult education in conjunction with seminar sessions to relate theory to practice.

**Prerequisites:** Ad Ldsp 517(P) or 702(P) or 757(657)(P); cons instr.

**Course Rules:** May be retaken to max of 6 cr.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 631 Emerging Research in Human Resource Development**

3 cr. Undergraduate/Graduate.

Examines the role of research in Human Resource Development (HRD).

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ad Ldsp 779 with similar title.

**Last Taught:** Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 631G Emerging Research in Human Resource Development**

3 cr. Undergraduate/Graduate.

Examines the role of research in Human Resource Development (HRD).

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ad Ldsp 779 with similar title.

**Last Taught:** Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 632 International Cross-Cultural Experiences in Developing Human Resources**

3 cr. Undergraduate/Graduate.

Examining Human Resource Development (HRD) in international and global contexts.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ad Ldsp 779 with similar title.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 632G International Cross-Cultural Experiences in Developing Human Resources**

3 cr. Undergraduate/Graduate.

Examining Human Resource Development (HRD) in international and global contexts.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ad Ldsp 779 with similar title.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 647 Evaluation of Adult, Continuing, and Higher Education Programs**

3 cr. Undergraduate/Graduate.

Provides an awareness, analysis, and synthesis of the purposes, methods, and procedures for evaluating diverse types of adult, continuing, and higher education programs, e.g., HRD, extension/outreach, etc.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ad Ldsp 579 with similar title.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 647G Evaluation of Adult, Continuing, and Higher Education Programs**

3 cr. Undergraduate/Graduate.

Provides an awareness, analysis, and synthesis of the purposes, methods, and procedures for evaluating diverse types of adult, continuing, and higher education programs, e.g., HRD, extension/outreach, etc.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ad Ldsp 579 with similar title.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 667 Program Planning in Adult Education**

3 cr. Undergraduate/Graduate.

Principles and processes affecting programming of adult education.

Focus on planning, execution, and evaluation dimensions of the programming process.

**Prerequisites:** jr st; Ad Ldsp 517(P) or 757(657)(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 667G Program Planning in Adult Education**

3 cr. Undergraduate/Graduate.

Principles and processes affecting programming of adult education.

Focus on planning, execution, and evaluation dimensions of the programming process.

**Prerequisites:** jr st; Ad Ldsp 517(P) or 757(657)(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 687 Instructional Design and Teaching Strategies**

3 cr. Undergraduate/Graduate.

Using an instructional design approach, students develop skills in selecting, using, and evaluating instructional strategies and procedures appropriate to particular domains of adult learning.

**Prerequisites:** jr st; Ad Ldsp 517(P); or cons instr.

**Last Taught:** Fall 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 687G Instructional Design and Teaching Strategies**

3 cr. Undergraduate/Graduate.

Using an instructional design approach, students develop skills in selecting, using, and evaluating instructional strategies and procedures appropriate to particular domains of adult learning.

**Prerequisites:** jr st; Ad Ldsp 517(P); or cons instr.

**Last Taught:** Fall 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 691 Leadership Ethics in Multicultural Organizations**

1 cr. Undergraduate/Graduate.

Introduction to the concept of ethics and leadership in multicultural organizations.

**Prerequisites:** jr st

**Course Rules:** Counts as repeat of Ad Ldsp 579 with similar title.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 691G Leadership Ethics in Multicultural Organizations**

1 cr. Undergraduate/Graduate.

Introduction to the concept of ethics and leadership in multicultural organizations.

**Prerequisites:** jr st

**Course Rules:** Counts as repeat of Ad Ldsp 579 with similar title.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 692 Quality Management in Education**

1 cr. Undergraduate/Graduate.

Introduction to the principles of quality management in education.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ad Ldsp 579 with same topic.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 692G Quality Management in Education**

1 cr. Undergraduate/Graduate.

Introduction to the principles of quality management in education.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ad Ldsp 579 with same topic.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 693 Decision Making in Multicultural Organizations**

1 cr. Undergraduate/Graduate.

Introduction to individual planning and decision making in multicultural organizations.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ad Ldsp 579 with title 'Planning and Decision Making Skills'.

**Last Taught:** Summer 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 693G Decision Making in Multicultural Organizations**

1 cr. Undergraduate/Graduate.

Introduction to individual planning and decision making in multicultural organizations.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ad Ldsp 579 with title 'Planning and Decision Making Skills'.

**Last Taught:** Summer 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 702 Leadership in Educational Organizations**

3 cr. Graduate.

Governance; social, political, and economic influences; theories of organizations and organizational behavior related to the administration of elementary and secondary schools.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 703 Resources for Self-directed Learning**

1 cr. Graduate.

Resources for self-directed learning to help students succeed in online courses and programs.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 704 Technologies for Online Student Support**

1 cr. Graduate.

Synchronous and asynchronous technologies for conducting online sessions for advising, teaching, academic, and student support.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 706 Professional Development for Online Instruction**

1 cr. Graduate.

Prepares both current and future instructors of adults to understand online instruction as it relates to pedagogy, professional development, and institutions.

**Prerequisites:** grad st.

**Last Taught:** Summer 2022, Summer 2021, Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 707 Using Technology With Adult Learners**

3 cr. Graduate.

Design and management of web-based instructional programs/ classes applying principles of instructional design, media, and software applications for adult learners.

**Prerequisites:** grad st; Ad Ldsp 757.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 708 Online Support Services in Adult, Continuing, and Higher Education**

3 cr. Graduate.

Assessment of trends, theory, and research for online student support; development of a plan for an online student support program.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 709 Introduction to Higher Education Administration**

3 cr. Graduate.

Contemporary issues of higher education focusing on historical, philosophical and sociological forces that affect higher education from an administrative perspective.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 710 Organizational Change and Team Leadership**

3 cr. Graduate.

Organizational change and team leadership is designed to introduce theories and concepts in organizational change and the interpersonal dynamics of working with and leading teams.

**Prerequisites:** grad st; Ad Ldsp 702 or 757(657) or cons instr.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 711 Organization and Governance in Higher Education****Administration**

3 cr. Graduate.

Overview of higher education institutions focusing on models of institutional governance, academic organization and higher education constituencies and their respective roles.

**Prerequisites:** grad st

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 712 Instructional Leadership**

3 cr. Graduate.

Personnel functions of the building principals recruitment, induction, staff development, supervision, and evaluation. Field experience integrated into course activities.

**Prerequisites:** grad st; Ad Ldsp 702 or cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 729 Qualitative Research and Field Studies in Education Settings**

3 cr. Graduate.

Examination of qualitative techniques as applied to educational research and evaluation in schools, classrooms, and other educational settings.

**Prerequisites:** grad st; Ed Psy 528 or equiv.

**Course Rules:** Not open to students who have cr in CurrIns 729 which is identical to Ad Ldsp 729.

**Last Taught:** Summer 2010, Summer 2006, Summer 2005, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 732 The Politics of Education**

3 cr. Graduate.

School-level politics of education and school-community relations. Focus on effective communication. Community assessment, partnerships, parent education, and related issues.

**Prerequisites:** grad st; Ad Ldsp 702 or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 737 Distance Education for Adults**

3 cr. Graduate.

Analysis of concepts, theories, and research in distance teaching and learning focusing on adult learners, program development and assessment of distance teaching and learning.

**Prerequisites:** Ad Ldsp 757 or cons instr.

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 740 Seminar in Innovative Technologies for Learning in Education**

3 cr. Graduate.

Examines innovative educational technologies and potential of these technologies for individuals, groups, and organizations; purpose and impact in organizational change; implementation in an organization.

**Prerequisites:** grad st.

**Last Taught:** Spring 2020, Spring 2018, Spring 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 747 Strategic Planning and Budgeting in Adult, Continuing, and Higher Education**

3 cr. Graduate.

Examines theoretical models and research literature on both strategic and operational planning, and the budgeting processes for adult, continuing, and higher education organizations.

**Prerequisites:** grad st; Ad Ldsp 667(P) or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 750 Internship in Administrative Leadership**

1-6 cr. Graduate.

Field experience in school and social agency settings under guidance of an experienced administrator and a faculty member.

**Prerequisites:** grad st; Ad Ldsp 710 & cons advisor.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 752 School Law**

3 cr. Graduate.

Authority, power, liability of school personnel, legal status of school districts, officers, pupils. Legal controls on curriculum, property, finances. Emphasis on state, federal court decisions.

**Prerequisites:** grad st; Ad Ldsp 702 or cons instr.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 757 Principles and Foundations of Adult Education**

3 cr. Graduate.

A study of concepts, theories and principles of adult education, the nature of adult processes, and factors that influence and facilitate adult learning.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 762 Management of Educational Resources**

3 cr. Graduate.

Building level school finance and fiscal management. Federal, state, and local taxation policies; equity; budgeting, purchasing, and fiscal control of public and student funds.

**Prerequisites:** grad st; Ad Ldsp 702 or cons instr.

**Last Taught:** Summer 2023, Summer 2022, Spring 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 767 Practicum in Program Planning and Implementation**

3 cr. Graduate.

Application of program planning principles including program development, budgeting, marketing, facilities management and evaluation in the implementation of an education program.

**Prerequisites:** grad st, Ad Ldsp 667 or 702 (705).

**Last Taught:** Spring 2013, Summer 2007, Summer 2005, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 772 The Principalship**

3 cr. Graduate.

In-depth seminar examining the problems and issues of school administration at the building level.

**Prerequisites:** grad st; completion common core.

**Last Taught:** Summer 2007, Spring 2007, Fall 2006, Summer 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 777 Leadership in Multicultural Organizations**

3 cr. Graduate.

Analyzes concepts and theories of leadership, issues of diversity in organizations, and explores techniques for managing differences that comprise today's multicultural workforce.

**Prerequisites:** grad st; Ad Ldsp 757(657) or 702(705) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Summer 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 778 Introduction to College Student Personnel Administration**

3 cr. Graduate.

Introduction to college student personnel administration stressing the various components that encompass student affairs practice in collegiate settings.

**Prerequisites:** grad st

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 779 Current Topics in Administrative Leadership:**

1-3 cr. Graduate.

Current problems, issues and research in administrative leadership and supervision and their implications for practitioners. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st.

**Course Rules:** May be repeated with change in topic to max of 9 cr.

**Last Taught:** Spring 2011, Fall 2010, Spring 2010, UWinterIM 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 780 Internship in Student Service Administration**

3 cr. Graduate.

Students will work with selected administrators in the field of special education administration.

**Prerequisites:** grad st; or cons instr. EXCEDUC 961 or AD LDSP 961 (P)

**Course Rules:** Counts as repeat of EXCEDUC 780.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 782 Principalship Field Practicum**

1-3 cr. Graduate.

Field application of knowledge, concepts and skills learned in principal accreditation course work. Seminar attendance required.

**Prerequisites:** grad st; compl common core & Ad Ldsp 772.

**Course Rules:** Retakeable to max of 3 cr.

**Last Taught:** Summer 2008, Spring 2008, Fall 2007, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 787 Administration of Adult Education Programs**

3 cr. Graduate.

Current behavioral concepts, theories, and processes of administration, supervision, and coordination as applied in adult education organizations and agencies.

**Prerequisites:** grad st; Ad Ldsp 757 or writ cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 790 Internship in Instructional Leadership**

3 cr. Graduate.

Relevant field experience for candidates seeking the WI DPI Director of Instruction administrative license.

**Prerequisites:** grad st; completion of common core

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 792 Principalship Field Practicum**

3 cr. Graduate.

Roles, responsibilities, and operational tasks of principals with practical application of knowledge, theories, systems, and processes. Field experience component and seminar component.

**Prerequisites:** grad st; compl common core

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 795 Women and Leadership in Education**

3 cr. Graduate.

Issues of women's leadership within the field of education in the United States.

**Prerequisites:** grad st

**Last Taught:** Summer 2023, Summer 2021, Summer 2019, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 797 The Student in the Collegiate Context**

3 cr. Graduate.

Overview of the collegiate experience from multiple perspectives including race, gender, sexual identities, abilities, and age within the context of various institutions.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 798 Seminar in Human Resource Development**

3 cr. Graduate.

Analyzes the concepts, current research, issues, and trends in the area of human resource development and how these issues influence organizational performance.

**Prerequisites:** grad st; Ad Ldsp 607.

**Last Taught:** Spring 2015, Spring 2013, Spring 2011, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 799 Independent Reading**

1-3 cr. Graduate.

For graduate students unable to secure needed content in regular courses.

**Prerequisites:** grad st; cons instr & advisor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 800 Administration of the School Plant**

2-3 cr. Graduate.

Determination of school plant needs based upon educational program, population, and utilization studies. Evaluation of existing school plant.

**Prerequisites:** grad st; Ad Ldsp 705 & 706.

**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 801 Urban Education: Doctoral Seminar**

3 cr. Graduate.

Administrative leadership and policy development in urban education.

**Prerequisites:** grad st; admis to Ph.D. prog in Urban Educ; Educ 701(P).**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 802 District Leadership for Learning**

3 cr. Graduate.

A study of the special problems and opportunities involved in administering school districts, focusing on the role of the district administrator.

**Prerequisites:** post masters st; or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 805 Legislative and Legal Aspects of Special Education**

3 cr. Graduate.

Legislative and legal factors involved in educating individuals with disabilities and other nondiscrimination legislation.

**Prerequisites:** grad st, AD LDSP 861 or EXCEDUC 861 (P).**Course Rules:** Counts as repeat of EXCEDUC 805.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 812 Educational Personnel Administration and Supervision**

3 cr. Graduate.

Focus on major concepts, functions and problems of personnel administration in education including recruitment, assignment, evaluation and motivation.

**Prerequisites:** grad st; Ad Ldsp 802 or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 827 Seminar in Adult and Organizational Learning**

3 cr. Graduate.

Application of transformative, critical, and action learning concepts to personal and professional development.

**Prerequisites:** grad st; Ad Ldsp 710(P).**Last Taught:** Fall 2017, Fall 2015, Fall 2013, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 828 Using Qualitative Data Analysis Software for Educational Research**

1 cr. Graduate.

Explores technical and theoretical issues associated with using qualitative data analysis software packages.

**Prerequisites:** grad st; Ad Ldsp 829(C)**Last Taught:** Summer 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 829 Advanced Qualitative Research Techniques for Education Settings**

3 cr. Graduate.

Advanced examination of qualitative research techniques in three areas: conceptual design; data collection methods and data analysis and reporting.

**Prerequisites:** Ad Ldsp 729 or cons instr.**Course Rules:** Not open to students who have cr in CurrIns 829 which is identical to Ad Ldsp 829.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 832 Educational Politics and Policymaking**

3 cr. Graduate.

An examination of political sources of decision making in education. The role of interest groups in shaping educational policy and implementation at local, state, and national levels.

**Prerequisites:** post-master's st; Ad Ldsp 802 or cons instr.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 839 Practicum in Writing from Qualitative Research for Educational Settings**

3 cr. Graduate.

Practice in writing from qualitative research data and analysis of qualitative text.

**Prerequisites:** grad st; Ad Ldsp or CurrIns 729(P) & 829(P).**Course Rules:** Not open to students who have cr in CurrIns 839 which is identical to Ad Ldsp 839.**Last Taught:** Fall 2005, Fall 1996, Summer 1995, Summer 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 842 Program Planning and Evaluation in Education**

3 cr. Graduate.

Theory, research, and practice regarding role of the superintendent in planning and evaluating education programs. Case studies, simulations, and field applications.

**Prerequisites:** grad st; Ad Ldsp 802 or cons instr.**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 849 Higher Education and the Law**

3 cr. Graduate.

Designed for aspiring college or university administrators to provide knowledge and skills in the area of higher education law and policy.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 850 Supervision of Student Teaching**

3 cr. Graduate.

The role and responsibilities of the supervising teacher in planning, guidance and evaluation of the learning experiences of prospective teachers.

**Prerequisites:** grad st; Ad Ldsp 705 or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 852 Collective Bargaining and Contract Administration in Education**

3 cr. Graduate.

Study of theory and practice of collective bargaining in educational systems. Prepares educators to manage the bargaining process and administer the contract.

**Prerequisites:** postmaster's st; Ad Ldsp 802 or cons instr.**Last Taught:** Summer 1996, Spring 1995, Spring 1994, Summer 1993.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 861 Foundations in Systems of Educational Equity**

3 cr. Graduate.

Sets the foundation for leadership in special education and student services in the context of integrated comprehensive services and student diversity.

**Prerequisites:** grad st.**Course Rules:** Counts as repeat of EXCEDUC 861.**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 862 School Finance**

3 cr. Graduate.

Theoretical/contemporary bases for raising/distributing local, state, federal funds for public education. Problems, issues of public school financial support. Analysis of Wisconsin school support.

**Prerequisites:** post-master's st, Ad Ldsp 802 or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 867 Seminar in Continuing Education in the Professions**

3 cr. Graduate.

Analysis of the role and nature of continuing education in professions; current issues affecting the development of this field of adult education practice.

**Prerequisites:** grad st; Ad Ldsp 667 or cons instr.

**Last Taught:** Fall 2012, Summer 2012, Fall 2010, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 877 Seminar in Two-Year Post Secondary Institutions**

3 cr. Graduate.

Present status, development, functions, organizational and curriculum trends in postsecondary nonbaccalaureate institutions.

**Prerequisites:** grad st; Ad Ldsp 657 or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 880 Proseminar in Urban Education: Administrative Leadership**

3 cr. Graduate.

An examination of selected problems and issues in urban education.

**Prerequisites:** grad st; admis to the urban education doctoral prog.

**Last Taught:** Summer 2011, Spring 2011, Fall 2009, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 882 Practicum in the School Superintendency**

1-3 cr. Graduate.

Field application of the knowledge, concepts, and skills learned in concurrent course work. Seminar attendance required.

**Prerequisites:** post-master's st; admis to District Administrator Cert Prog; cons instr.

**Course Rules:** Repeatable to 3 cr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 886 Developing Your ePortfolio in ACHEA**

3 cr. Graduate.

Reflection on learning and creation of the capstone eportfolio in alignment with professional standards to represent student learning in the ACHEA program.

**Prerequisites:** graduate standing and completion of 27 credits or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 3 cr max. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 890 Higher Education Finance**

3 cr. Graduate.

Introduction to financing higher education and analyzing the strengths and weaknesses of that system.

**Prerequisites:** grad st

**Course Rules:** Counts as repeat of Ad Ldsp 779 with same topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 892 Specialist Applied Research Project**

2-6 cr. Graduate.

Specialist project and inquiry in applied problems of administration and supervision.

**Prerequisites:** postmaster's st; completion of 15 cr in specialist sequence; cons advisor.

**Last Taught:** Spring 2014, Fall 2012, Summer 2012, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 893 Seminar in International Adult Education**

3 cr. Graduate.

Introduction to the foundations, context, global, political, socio-economic, and educational issues for international adult education.

**Prerequisites:** grad st

**Last Taught:** Summer 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 897 Seminar-Philosophy and History of Adult, Continuing & Higher Education**

3 cr. Graduate.

Philosophical foundations related to the historical movement of adult, continuing, and higher education and implications for future directions.

**Prerequisites:** graduate standing; AD LDSP 657(P) or consent of instructor.

**Course Rules:** AD LDSP 897 and ED POL 897 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2021, Spring 2017, Spring 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 900 Role of the Professoriate**

3 cr. Graduate.

Analysis of traditional faculty responsibilities of teaching, research, and service and the professional context in which they are conducted.

**Prerequisites:** doctoral status; counts as repeat of EDUC 900 with same topic.

**Last Taught:** Fall 2014, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 955 Seminar in Instructional Supervision**

3 cr. Graduate.

Problems of teacher-learner and supervisory relationships in improvement of instructional programs and development of personnel. Analysis of selected problems.

**Prerequisites:** postmaster's st; eligibility for building administrator or supervisor cert.

**Last Taught:** Summer 2007, Spring 2006, Spring 1992, Spring 1989.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 960 Seminar in Economics of Education**

3 cr. Graduate.

Financing public education. Efficient allocation and use of facilities and material. Theoretical bases and premises of public education financial support. Federal, state, and local relationships.

**Prerequisites:** grad st; Ad Ldsp 862.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AD LDSP 961 Analysis and Design of Special Education and Student Services**

3 cr. Graduate.

Advanced analysis and design of organization and leadership of integrated comprehensive services for all learners.

**Prerequisites:** grad st; EXCEDUC 861 or AD LDSP 861(P).**Course Rules:** Counts as repeat of EXCEDUC 961.**Last Taught:** Spring 2022, Spring 2020, Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 967 Seminar in Urban Adult, Continuing, and Higher Education**

3 cr. Graduate.

Examines adult, continuing, and higher education programs provided in the urban environment and discusses issues related to the development and delivery of those programs.

**Prerequisites:** grad st; Ad Ldsp 657(P)**Last Taught:** Spring 2022, Spring 2016, Spring 2014, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 970 Policy Issues in Urban Education**

1-3 cr. Graduate.

Examines recent policy developments in education, socio-political forces which have defined policy direction, and major points of controversy surrounding educational policies.

**Prerequisites:** postmaster's st or cons instr.**Last Taught:** Summer 2022, Summer 2020, Summer 2018, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 978 Seminar in Student Personnel Administration**

3 cr. Graduate.

Overview of current skills and competencies needed by student affairs professionals with an emphasis on standards, retention, debt, crisis management, accountability and assessment.

**Prerequisites:** grad st**Last Taught:** Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 990 Research or Thesis**

1-3 cr. Graduate.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AD LDSP 999 Independent Reading**

1-3 cr. Graduate.

For the benefit of postmaster's students unable to secure needed content in regular courses.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2022, Spring 2020, Summer 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## African & African Diaspora Studies (AFRIC)

**AFRIC 100 Black Reality: Survey of African-American Society**

3 cr. Undergraduate.

An introduction to key concepts, structures, and institutions in African-American societies.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 102 Survey of African-American Literature**

3 cr. Undergraduate.

A survey of a variety of African-American literature.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 111 Introduction to African-American History to 1865**

3 cr. Undergraduate.

African and African-American history to the Reconstruction period.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 112 Introduction to African-American History, 1865 to the Present**

3 cr. Undergraduate.

African-American history from the Reconstruction era to the present.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 125 Economics of the Black Community**

3 cr. Undergraduate.

A survey of key economic principles, and elements that structure economic behavior in the black community.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 163 African-American Concept of Self**

3 cr. Undergraduate.

Survey of the cultural, social and psychological origins of the contemporary view African Americans have of themselves.

**Prerequisites:** none.**Last Taught:** Spring 2010, Fall 2009, Spring 2009, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** HU**Last Taught:** Fall 2008, Fall 2007, Fall 2000, Spring 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 193 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** SS**Last Taught:** Fall 2009, Fall 2008, Fall 2002, Fall 1997.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult the department chair.

**Prerequisites:** 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Summer 2011, Spring 2008, Fall 2006, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 205 The Poetry of African, African-American, and Caribbean Writers**

3 cr. Undergraduate.

A survey of ideas, themes, values, beliefs, and attitudes in the poetry of African, African-American and Caribbean writers.

**Prerequisites:** soph st.

**General Education Requirements:** CD, HU

**Last Taught:** Fall 2013, Fall 2010, Fall 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 210 The African-American Novel**

3 cr. Undergraduate.

A study of the social and cultural significance of the African-American novel, with emphasis on genre, imagery, and dramatic irony.

**Prerequisites:** soph st.

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 215 Introduction to Black Social and Cultural Traditions**

3 cr. Undergraduate.

A consideration of the social and cultural traditions that ground the life experiences and prospects of black people.

**Prerequisites:** none.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Spring 2022, Spring 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 220 Introduction to Statistics in African and African Diaspora Studies**

3 cr. Undergraduate.

The use of statistical methods and techniques in techniques in African and African Diaspora Studies. Data from the Afroworld (North and South America, Africa, and the Caribbean) will be analyzed.

**Prerequisites:** Prerequisite: satisfaction of GER Quantitative Literacy Part A.

**General Education Requirements:** QL B

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 228 Introduction to Black Political Economy**

3 cr. Undergraduate.

A survey of the interplay of the basic political and economic categories that structure the form and content of black life in America.

**Prerequisites:** soph st.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2022, Fall 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 232 Survey of African Societies and Cultures**

3 cr. Undergraduate.

A survey of continuities and changes in the social and cultural lives of the peoples of Black Africa.

**Prerequisites:** soph st.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Spring 2020, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 235 African Americans and South Africa**

3 cr. Undergraduate.

The study of ideological, economic, religious, cultural, educational and political ties between African Americans and black South Africans from the 19th century to the present.

**Prerequisites:** soph st or cons instr.

**General Education Requirements:** HU

**Last Taught:** Fall 2013, Fall 2001, Fall 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 250 Black Women and White Women in the Contemporary United States**

3 cr. Undergraduate.

The effect of economics, education, social structures and history on the role of black women in US society.

**Prerequisites:** soph st.

**General Education Requirements:** SS

**Last Taught:** UWinterIM 2011, Spring 2010, Spring 2009, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 261 Survey of African-American Political Philosophy**

3 cr. Undergraduate.

A survey of key ideas, concepts, arguments, problems, and issues in African-American political philosophy.

**Prerequisites:** soph st.

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2016, Spring 2015, Fall 2008, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 265 Psychological Effects of Racism**

3 cr. Undergraduate.

Psychological and socio-psychological effects of individualized and institutionalized racism on blacks and whites. Emphasis is placed on a range of interactions between blacks and whites.

**Prerequisites:** none.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 289 Internship in African & African Diaspora Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of African & African Diaspora Studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** One credit earned for academic work based on 40 hours in internship. May be retaken to 6 credits max. Prerequisite: 100- or 200-level AFRIC course; 2.25 GPA; consent of supervising faculty member.

**Last Taught:** Fall 2009, Spring 2008, Spring 2007, Summer 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**AFRIC 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** UWinteriM 2019, UWinteriM 2013, UWinteriM 2012, UWinteriM 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2004, Spring 2003, Spring 2000, Fall 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 300 Urban Violence**

3 cr. Undergraduate/Graduate.

Analysis of the nature, causes, and consequences of urban violence; the possibilities and limits of violence in promoting the good of blacks will be scrutinized.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 300G Urban Violence**

3 cr. Undergraduate/Graduate.

Analysis of the nature, causes, and consequences of urban violence; the possibilities and limits of violence in promoting the good of blacks will be scrutinized.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 301 Research Methods in African & African Diaspora Studies**

3 cr. Undergraduate.

A survey of research methods and techniques, and the uses of the computer in data gathering and analysis in African & African Diaspora Studies.

**Prerequisites:** Prerequisite: junior standing; elementary statistics course; or consent of instructor.

**Last Taught:** Fall 2021, Fall 2018, Fall 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 311 African Religious Thought and Social Organizations**

3 cr. Undergraduate/Graduate.

A critical analysis of foundations from which complex social structures and institutions evolved in the diverse societies of the Afroworld.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 311G African Religious Thought and Social Organizations**

3 cr. Undergraduate/Graduate.

A critical analysis of foundations from which complex social structures and institutions evolved in the diverse societies of the Afroworld.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 312 The Church in African-American Life**

3 cr. Undergraduate.

A study of the socio-cultural significance of the church in the evolution of the black community.

**Prerequisites:** jr st.

**Last Taught:** Fall 2012, Fall 2011, Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 314 The School in African-American Life**

3 cr. Undergraduate.

A study of the socio-cultural significance of the school in the evolution of the black community.

**Prerequisites:** junior standing.

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2023, Fall 2022, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 319 African American Urban History**

3 cr. Undergraduate/Graduate.

Examination of the social and cultural transformation of Black urban communities, including social relations, political expression, economic organization, and cultural production, through the effects of government policies, economic trends, and institutional racism.

**Prerequisites:** junior standing.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 319G African American Urban History**

3 cr. Undergraduate/Graduate.

Examination of the social and cultural transformation of Black urban communities, including social relations, political expression, economic organization, and cultural production, through the effects of government policies, economic trends, and institutional racism.

**Prerequisites:** junior standing.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 320 Black Cultures in Latin America and the Caribbean**

3 cr. Undergraduate.

African influence on Latin America and the Caribbean, and the cultures of black peoples in several areas, particularly Brazil, Cuba, Haiti, Jamaica, Trinidad, and Barbados.

**Prerequisites:** jr st.

**Last Taught:** Spring 2023, Fall 2019, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 321 Black Workers in the 21st Century**

3 cr. Undergraduate/Graduate.

Analysis of scientific and technological changes in America since 1900, and their qualitative as well as quantitative impact on black productivity and participation in the work force.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 321G Black Workers in the 21st Century**

3 cr. Undergraduate/Graduate.

Analysis of scientific and technological changes in America since 1900, and their qualitative as well as quantitative impact on black productivity and participation in the work force.

**Prerequisites:** jr st.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 322 Order and Disorder: The Quest for Social Justice**

3 cr. Undergraduate/Graduate.

An analysis of the forms, purposes, and effects of order and disorder in relation to black people's quest for social justice.

**Prerequisites:** jr st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 322G Order and Disorder: The Quest for Social Justice**

3 cr. Undergraduate/Graduate.

An analysis of the forms, purposes, and effects of order and disorder in relation to black people's quest for social justice.

**Prerequisites:** jr st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 323 Capitalism, Socialism, Nationalism and Fascism**

3 cr. Undergraduate.

An analysis of the political philosophies of capitalism, socialism, nationalism and fascism in relation to their significance for the organization of political societies in the Afroworld.

**Prerequisites:** jr st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 325 Africa/China Relations**

3 cr. Undergraduate/Graduate.

Historical and emerging political and economic relationship between the African continent and China.

**Prerequisites:** Counts as a repeat of AFRIC 565 with similar title.

Prerequisite: junior standing.

**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 325G Africa/China Relations**

3 cr. Undergraduate/Graduate.

Historical and emerging political and economic relationship between the African continent and China.

**Prerequisites:** Counts as a repeat of AFRIC 565 with similar title.

Prerequisite: junior standing.

**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 326 Economic Problems of Black Business**

3 cr. Undergraduate/Graduate.

Examination of major economic problems of black business; liquidity, credit, market shares, insurance, rents, mortgages, and location are analyzed in relation to black business performance.

**Prerequisites:** jr st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 326G Economic Problems of Black Business**

3 cr. Undergraduate/Graduate.

Examination of major economic problems of black business; liquidity, credit, market shares, insurance, rents, mortgages, and location are analyzed in relation to black business performance.

**Prerequisites:** jr st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 329 Economic Growth and Sustainable Development in Africa**

3 cr. Undergraduate/Graduate.

Economic development in African countries; poverty reduction strategies, role of education and health, Millennium Development Goals, agrarian systems, international trade; U.S. as key trading partner.

**Prerequisites:** jr st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 329G Economic Growth and Sustainable Development in Africa**

3 cr. Undergraduate/Graduate.

Economic development in African countries; poverty reduction strategies, role of education and health, Millennium Development Goals, agrarian systems, international trade; U.S. as key trading partner.

**Prerequisites:** jr st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 334 Survey of Black American and Black Brazilian Societies**

3 cr. Undergraduate.

Examines similarities and differences between peoples of African descent in the United States and Brazil, with reference to society, culture, and political economy.

**Prerequisites:** jr st.**Last Taught:** Spring 2022, Spring 2017, Spring 2015, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 341 Black Politics and City Government**

3 cr. Undergraduate.

An analysis of the impact of black politics on the decision-making process of, and delivery of goods and services by, state and local governments.

**Prerequisites:** jr st.**Last Taught:** Spring 2023, Spring 2016, Spring 2014, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 344 Global Black Social Movements**

3 cr. Undergraduate/Graduate.

Analysis of leadership, ideology, and the structure of black political movements and organizations in the twentieth century.

**Prerequisites:** jr st.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 344G Global Black Social Movements**

3 cr. Undergraduate/Graduate.

Analysis of leadership, ideology, and the structure of black political movements and organizations in the twentieth century.

**Prerequisites:** jr st.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 350 The Black Family**

3 cr. Undergraduate/Graduate.

An examination of the structure and functions of the black family in its urban and rural contexts.

**Prerequisites:** jr st.

**Last Taught:** Fall 2014, Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 350G The Black Family**

3 cr. Undergraduate/Graduate.

An examination of the structure and functions of the black family in its urban and rural contexts.

**Prerequisites:** jr st.

**Last Taught:** Fall 2014, Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 351 Sexuality, Gender, and Health in Africa and the Diaspora**

3 cr. Undergraduate.

Drawing on cultural studies and social science approaches, this course asks the question of how health and illness is socially and culturally determined.

**Prerequisites:** jr st.

**Last Taught:** Spring 2018, Spring 2016, Fall 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 352 Extended Families in Black Societies**

3 cr. Undergraduate.

A critical cross-national/cross-cultural analysis of the structures and functions of black extended families in the Americas and Africa.

**Prerequisites:** jr st.

**Last Taught:** Spring 2013, Spring 2012, Spring 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 362 Philosophy and Thought in Africa and the Diaspora II**

3 cr. Undergraduate.

Philosophical foundations of the intellectual tradition and political ideas of Africa and the African diaspora after 1900.

**Prerequisites:** jr st.

**Last Taught:** Summer 2010, Fall 2008, Fall 2004, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 369 Black Images and Mass Media**

3 cr. Undergraduate.

An evaluation of how the mass media have affected the psyche of Black people.

**Prerequisites:** jr st.

**Last Taught:** Spring 2020, Spring 2018, Spring 2017, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 370 Forms of Black Expression**

3 cr. Undergraduate.

An analysis of elements of African traditions that have influenced the literature, music, art, dance, and folkways (in the Afro-world, particularly in the United States).

**Prerequisites:** jr st.

**Last Taught:** Spring 2015, Spring 2014, Spring 1990.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 372 African-American Literary Movements: The Harlem Renaissance**

3 cr. Undergraduate.

A consideration of the historical and social forces that promoted the development of black literature during the period of the Harlem Renaissance.

**Prerequisites:** jr st.

**Last Taught:** Spring 2015, Spring 2014, Spring 2010, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 381 Honors Seminar:**

3 cr. Undergraduate.

Selected topics in the political economy, cultures, and societies of the Afroworld.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 credits max.

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 411 Change in African-American Communities**

3 cr. Undergraduate.

An analysis of institutional and non-institutional forces that occasion change in black communities.

**Prerequisites:** jr st.

**Last Taught:** Spring 2011, Fall 2009, Spring 2005, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 412 Blacks and the United States Constitution**

3 cr. Undergraduate.

An analysis of the Constitution's impact on blacks, and the body of law that has evolved from litigation involving the interests of black people.

**Prerequisites:** jr st.

**Last Taught:** Fall 2005, Fall 2001, Fall 2000, Fall 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 414 The Black Woman in America, Africa, and the Caribbean**

3 cr. Undergraduate.

A comparison of the roles and impact of the black women on American, African and Caribbean societies.

**Prerequisites:** jr st.

**Last Taught:** Spring 2022, Spring 2018, Fall 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 415 Race in Sports**

3 cr. Undergraduate/Graduate.

Exploration of the terrain of American sports in the twentieth century to understand the profound impact athletic competition has had on the development of American race relations and racial inequality.

**Prerequisites:** junior standing or greater.

**Course Rules:** Counts as a repeat of AFRIC 565 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 415G Race in Sports**

3 cr. Undergraduate/Graduate.

Exploration of the terrain of American sports in the twentieth century to understand the profound impact athletic competition has had on the development of American race relations and racial inequality.

**Prerequisites:** junior standing or greater.

**Course Rules:** Counts as a repeat of AFRIC 565 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 416 Race and Social Justice in the United States**

3 cr. Undergraduate.

A study of the relation between race, injustice and social change in the United States.

**Prerequisites:** jr st.**Last Taught:** Fall 2017, Fall 2015, Fall 2014, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 417 Race, Class and Gender in Southern Africa**

3 cr. Undergraduate.

Race, class and gender as sources of conflict and cooperation in southern African societies.

**Prerequisites:** jr st.**Last Taught:** Spring 2014, Spring 2004, Spring 2003, Spring 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 418 Race, Class, and Gender in Latin America and the Caribbean**

3 cr. Undergraduate.

An analysis of race, class and gender in the evolution of political, economic, and social structures in Caribbean and Latin American societies.

**Prerequisites:** jr st.**Last Taught:** Fall 2020, Fall 2018, Spring 2009, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 420 The Political Economy of Slavery**

3 cr. Undergraduate.

Analysis of the political and economic contradictions of U.S. slavery; the value of free versus slave labor is scrutinized in the context of emerging capitalism.

**Prerequisites:** jr st.**Last Taught:** Fall 2014, Fall 2013, Spring 2002, Spring 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 450 Cultural Transmissions: Black Africa and Black America**

3 cr. Undergraduate/Graduate.

A cross-national and cross-cultural comparison of the societies and cultures of black Americans and black Africans.

**Prerequisites:** jr st.**Last Taught:** Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 450G Cultural Transmissions: Black Africa and Black America**

3 cr. Undergraduate/Graduate.

A cross-national and cross-cultural comparison of the societies and cultures of black Americans and black Africans.

**Prerequisites:** jr st.**Last Taught:** Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 451 Rites of Passage in Black Societies**

3 cr. Undergraduate/Graduate.

Foundations of the use of rites of passage in different societies throughout Africa and the African diaspora.

**Prerequisites:** jr st.**Last Taught:** Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 451G Rites of Passage in Black Societies**

3 cr. Undergraduate/Graduate.

Foundations of the use of rites of passage in different societies throughout Africa and the African diaspora.

**Prerequisites:** jr st.**Last Taught:** Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 489 Internship in African & African Diaspora Studies, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of African &amp; African Diaspora Studies in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** One credit earned for academic work based on 40 hours in internship. May be retaken to 6 credits max. Prerequisite: junior standing; 300-level or above course in AFRIC; 2.25 gpa; consent of supervising faculty member.**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** UWinterIM 2019, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** UWinterIM 2019, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 1995.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 545 Raising Children, 'Race-ing' Children**

3 cr. Undergraduate/Graduate.

Analysis of the social meaning of race in the US through the lens of childhood and adolescence; how children come to understand and navigate racism.

**Prerequisites:** jr st or grad st.**Course Rules:** Counts as a repeat of AFRIC 565 w/ similar topic.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 545G Raising Children, 'Race-ing' Children**

3 cr. Undergraduate/Graduate.

Analysis of the social meaning of race in the US through the lens of childhood and adolescence; how children come to understand and navigate racism.

**Prerequisites:** jr st or grad st.

**Course Rules:** Counts as a repeat of AFRIC 565 w/ similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 565 Selected Texts/Topics in African & African Diaspora Studies:**

3 cr. Undergraduate/Graduate.

Examination of selected problems, issues, and themes in African & African Diaspora Studies.

**Prerequisites:** junior standing or greater.

**Course Rules:** Repeatable to 6 cr max.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 565G Selected Texts/Topics in African & African Diaspora Studies:**

3 cr. Undergraduate/Graduate.

Examination of selected problems, issues, and themes in African & African Diaspora Studies.

**Prerequisites:** junior standing or greater.

**Course Rules:** Repeatable to 6 cr max.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 699 Independent Study**

1-6 cr. Undergraduate.

See Advanced Independent Study.

**Prerequisites:** jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 700 Foundations and Theories in African & African Diaspora Studies**

3 cr. Graduate.

Seminar on historical, theoretical and institutional development of African & African Diaspora Studies. Topics examined will include Pan-Africanism, Black Feminism, Afrocentrism, Diaspora Theory, Critical Race Theory, and others.

**Prerequisites:** Prerequisite: graduate standing.

**Last Taught:** Fall 2021, Fall 2020, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 701 Theories and Methods in Empirical Research in African & African Diaspora Studies**

3 cr. Graduate.

Applicability of particular empirical theories and qualitative/quantitative methods to a range of substantive problems and issues pertaining to peoples of African descent.

**Prerequisites:** Prerequisite: graduate standing; appropriate upper-level math or statistics course.

**Last Taught:** Spring 2022, Spring 2021, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 705 Classic Works: Intellectual Production in Africa and the Diaspora I**

3 cr. Graduate.

Conceptual and value foundations of normative theory in relation to forms of social organization.

**Prerequisites:** grad st

**Last Taught:** Spring 2022, Spring 2021, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 706 Classic Works: Intellectual Production in Africa and the Diaspora II**

3 cr. Graduate.

Advanced study of elements of normative theory such as justice, equality, freedom, and obligation in societal construction and reconstruction in Africa and the Diaspora.

**Prerequisites:** Prerequisite: graduate standing; AFRIC 705(P).

**Last Taught:** Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 708 Black Literary Theory and Cultural Studies**

3 cr. Graduate.

Black Studies explores African diasporic identities through the analysis of cultural productions. Central concerns include social constructions of race relating to traditions, folkways, fiction, poetry, visual arts, film, bodily performance, social media, music and more.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2021, Fall 2020, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 709 Critical Literary Theory II: Modern Concepts in the African World**

3 cr. Graduate.

Intensive examination of cardinal elements in critical literary theory in the context of ideas and behaviors that have shaped the lives of Africans and their descent historically.

**Prerequisites:** Prerequisite: graduate standing; AFRIC 708(P).

**Last Taught:** Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 799 Graduate Independent Study**

1-3 cr. Graduate.

Independent work supervised by a member of the graduate faculty.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 800 Introduction to Qualitative Research Methods in African & African Diaspora Studies**

3 cr. Graduate.

Various qualitative methods and methodological issues germane to African & African Diaspora Studies, including archival research, interviewing, focus groups, participant observation, and analysis of representations.

**Prerequisites:** Prerequisite: graduate standing.

**Last Taught:** Spring 2023, Fall 2019, Fall 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 804 Qualitative Interviewing and Grounded Theory**

3 cr. Graduate.

In-depth, hands-on examination of qualitative interviewing in research. Students design, conduct, and analyze qualitative interviews using grounded theory. Seminar-style course.

**Prerequisites:** No credit for students who have credit in AFRIC 880 w/ same topic. Prerequisite: graduate standing; prior coursework in qualitative methods or consent of instructor.

**Last Taught:** Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 812 Political Economy: Conceptual**

3 cr. Graduate.

Advanced analysis of varieties of conceptual frameworks in the literature of political economy.

**Prerequisites:** grad st**Last Taught:** Spring 2014, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 814 Public Policies, Development, and Underdevelopment in Africa & the Diaspora**

3 cr. Graduate.

Investigation into public policy and development in Africa and the Diaspora.

**Prerequisites:** grad st**Last Taught:** Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 816 Political Economy of Development in African Countries**

3 cr. Graduate.

The importance of political institutions in shaping economic performance to advance understanding of economic development in the context of sub-Saharan African countries.

**Prerequisites:** grad st.**Last Taught:** Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 817 Political Economy of Development in African Countries II**

3 cr. Graduate.

Growth-enhancing governance, economic performance, and economic development in sub-Saharan African Countries.

**Prerequisites:** grad st; Africol 816(P) or cons instr.**Course Rules:** Counts as repeat of Africol 880 w/same topic.**Last Taught:** Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 818 Race Matters: Government and Politics in Latin America and the Caribbean**

3 cr. Graduate.

Presence, role, status, situation, and conditions of Afro-Americans (Afro-Latins and Afro-Caribbeans) in the Americas, from the federal republic of Mexico to the Argentine republic.

**Prerequisites:** grad st**Last Taught:** Fall 2019, Fall 2015, Spring 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 820 Political Economy of Income and Wealth Inequality**

3 cr. Graduate.

Seminar on economic inequality, with special emphasis on the United States. No credit for students who have credit in AFRIC 880 w/ same topic. Prerequisite: graduate standing.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 821 Race and Inequality**

3 cr. Graduate.

Discrimination and racial inequality along socio-economic dimensions.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 834 Seminar on Slavery**

3 cr. Graduate.

Culture and political economy of slavery; historical context for American slavery; slavery as political and economic issue; social-psychology of slavery; persistence of slavery's legacies.

**Prerequisites:** grad st.**Last Taught:** Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 836 Comparative Social Institutions in African World Communities**

3 cr. Graduate.

Origins, nature, and functioning of social institutions in African world communities; continuity and change; development of community and cultural identities of Africans and their descendents; theoretical/analytical approaches.

**Prerequisites:** grad st**Last Taught:** Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 837 Memory and Tradition: Identity-Making and Memory in the African Diaspora**

3 cr. Graduate.

Role of memory and tradition in forming collective and individual identities in the African Diaspora; symbolic value and functional aspects; focus on sub-Saharan Africa.

**Prerequisites:** grad st**Last Taught:** Fall 2022, Spring 2021, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 840 Healing Traditions in the African Diaspora**

3 cr. Graduate.

Advanced study of healing traditions, practices, and rituals throughout the African Diaspora.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 845 Race/Ethnicity and the Psychology of Oppression**

3 cr. Graduate.

Psychological processes involved in creating and sustaining oppressive societies; emphasis on the role of racism societally and the impact of oppression on individuals and groups.

**Prerequisites:** grad st**Last Taught:** Spring 2022, Fall 2015, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 851 African-American Literary Theory and Criticism**

3 cr. Graduate.

An intensive study of historical and contemporary trends in African-American literary criticism and theory.

**Prerequisites:** grad st**Last Taught:** Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFRIC 852 Folklore in the African World:**

3 cr. Graduate.

A close scrutiny of a particular forms of folk literature of people of African descent.

**Prerequisites:** grad st.**Course Rules:** Retakable with change in topic to 6 cr max.**Last Taught:** Fall 2012, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 862 Development of African-American Children in Urban and Rural Areas**

3 cr. Graduate.

Developmental processes facing African-American children, including identity development and racial socialization, impact of environment, notion of 'a single African-American identity,' theories and methodological approaches.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 865 The Quest for Pan-Africanism**

3 cr. Graduate.

History and future motion of movement to create a united Africa; political, economic, and social barriers to unification; united Africa in the global community.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 866 Black Power Reconsidered**

3 cr. Graduate.

The salience of black power in the context of campaigns for educational equality, urban politics, economic justice, residential segregation, urban renewal, anti-colonial struggle, and cultural politics.

**Prerequisites:** grad st.**Course Rules:** No cr for students with credit in Africol 880 w/ similar title.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 867 Problems in African American Urban History**

3 cr. Graduate.

Ways scholars have conceptualized and interpreted 20th century African American urban life; assumptions and logic that undergird various approaches; potential intellectual and political implications.

**Prerequisites:** grad st.**Course Rules:** No cr for students w/cr in Africol 880 with similar title.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 868 Black Intellectuals and the Public Sphere**

3 cr. Graduate.

How black intellectuals have defined knowledge and positioned themselves politically and professionally; the various spheres in which they operate.

**Prerequisites:** grad st.**Last Taught:** Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 880 Seminar on Issues in African & African Diaspora Studies:**

3 cr. Graduate.

Research seminar on issues of interest in African &amp; African Diaspora Studies.

**Prerequisites:** Prerequisite: graduate standing.**Last Taught:** Fall 2023, Spring 2023, Spring 2020, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFRIC 990 Dissertation Research**

1-3 cr. Graduate.

Research or dissertation work for students in the doctoral program.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable as necessary to complete the dissertation.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Air Force and Aerospace Studies (AFAS)

**AFAS 100 Leadership Laboratory**

0 cr. Undergraduate.

Provides prospective Air Force officers opportunities and feedback needed to develop followership, leadership, teamwork and managerial skills.

**Prerequisites:** none.**Course Rules:** Repeatable. Students who enroll in any AFAS course must also enroll in Leadership Laboratory.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFAS 101 Air Force Heritage and Values I**

1 cr. Undergraduate.

Introduction to communication skills and the US Air Force. Overview of the basic characteristics, missions, and organization.

**Prerequisites:** none.**Course Rules:** Students must concurrently enroll in AFAS 100.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFAS 102 Air Force Heritage and Values II**

1 cr. Undergraduate.

Continuation of AFAS 101.

**Prerequisites:** none.**Course Rules:** Students must concurrently enroll in AFAS 100.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFAS 201 Team and Leadership Fundamentals I**

1 cr. Undergraduate.

Air Force heritage and leaders; introduction to air and space power; and continued application of communication skills.

**Prerequisites:** none.**Course Rules:** Students must concurrently enroll in AFAS 100.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AFAS 202 Team and Leadership Fundamentals II**

1 cr. Undergraduate.

Continuation of AFAS 201.

**Prerequisites:** none.**Course Rules:** Students must concurrently enroll in AFAS 100.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFAS 301 Leading People and Effective Communication I**

3 cr. Undergraduate.

Leadership and quality management fundamentals, professional knowledge, leadership ethics, and communicative skills required of an Air Force officer. Case studies are used as a means of demonstrating and exercising practical application of the concepts being studied.

**Prerequisites:** none.**Course Rules:** Students must concurrently enroll in AFAS 100.**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFAS 302 Leading People and Effective Communication II**

3 cr. Undergraduate.

Continuation of AFAS 301.

**Prerequisites:** none.**Course Rules:** Students must concurrently enroll in AFAS 100.**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFAS 401 National Security, Leadership Responsibilities, Commissioning Preparation I**

3 cr. Undergraduate.

Examines the national security policy process, regional studies, and formulation of the American defense policy, strategy and joint doctrine.

**Prerequisites:** none.**Course Rules:** Students must concurrently enroll in AFAS 100.**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AFAS 402 National Security Affairs/Preparation for Active Duty 2**

3 cr. Undergraduate.

Continuation of AFAS 401.

**Prerequisites:** none.**Course Rules:** Students must concurrently enroll in AFAS 100.**Last Taught:** Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## American Indian Studies (AIS)

**AIS 101 Introduction to American Indian Studies**

3 cr. Undergraduate.

Indigenous experience in the land now called U.S.A.; colonization, tradition and spirituality, indigenoussness and sovereignty; current issues, e.g., language preservation, treaty rights, social justice. Theoretical approaches.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 105 Anishinaabe Ethnobotany: Plants in Anishinaabe Culture**

3 cr. Undergraduate.

Anishinaabe botanical knowledge as it relates to Anishinaabe culture.

**Prerequisites:** none.**Course Rules:** No cr for students who have cr in Bio Sci 105.**General Education Requirements:** CD**Last Taught:** Fall 2021, Fall 2020, Fall 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 106 Anishinaabe Ethnobotany: Plants in Anishinaabe Philosophy**

3 cr. Undergraduate.

Anishinaabe philosophical and religious beliefs incorporating botanical knowledge.

**Prerequisites:** none.**Course Rules:** AIS 106 & RELIGST 106 count as repeats of one another.**General Education Requirements:** CD**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 171 First-Semester Indigenous Languages of Wisconsin:**

4 cr. Undergraduate.

First-semester speaking, listening, and writing skills in an Indigenous language of Wisconsin.

**Prerequisites:** none.**Course Rules:** Previously AIS 161. Retakeable with change in topic to 12 cr max. Satisfies L&S Language Requirement and World Language GER. Meets Cultural Diversity GER.**General Education Requirements:** CD**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 172 Second-Semester Indigenous Languages of Wisconsin:**

4 cr. Undergraduate.

Second-semester speaking, listening, and writing skills in an indigenous language of Wisconsin.

**Prerequisites:** AIS 161(P) or level 2 placement. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).**Course Rules:** Previously AIS 162. Retakeable with change in topic to 12 cr max. Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER.**General Education Requirements:** CD**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** CD, HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 193 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** CD, SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**AIS 199 Independent Study**

3 cr. Undergraduate.

Independent work supervised by a member of the AIS Program instructional staff.

**Prerequisites:** 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable with change in topic to 6 cr max.

**Last Taught:** Summer 2018, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 203 Western Great Lakes American Indian Community Life of the Past**

3 cr. Undergraduate.

Study of western Great Lakes American Indian community life of the past, with an emphasis on pre-European conditions, social organizations, value systems, family life, ceremonial life.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of Ethnic 203.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 225 The Aztec Empire**

3 cr. Undergraduate.

Formation and expansion of the Aztec empire; description and analysis of Aztec culture, with an emphasis on archaeological and ethnohistoric perspectives.

**Prerequisites:** none.

**Course Rules:** AIS 225 & Anthro 225 are jointly offered; they count as repeats of one another.

**Last Taught:** Summer 2016, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 252 Fourth Semester Anishinaabemowin (Ojibwe)**

4 cr. Undergraduate.

Fourth-semester speaking, listening and writing skills in Anishinaabemowin the language of the Great Lakes Three Fires Confederacy and current Ojibwe, Odawa and Potawatomi nations.

**Prerequisites:** AIS 251 or level 4 placement. Generates L&S credit for demonstrated equivalent preparation (12 retro cr)..

**Course Rules:** Satisfies L&S Language Requirement and Foreign Language GER. Meets Cultural Diversity GER.

**General Education Requirements:** CD

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 262 North American Indian History to 1887**

3 cr. Undergraduate.

A survey of Native American history from aboriginal times to 1887. Emphasis will be placed on American policies and change within Indian societies.

**Prerequisites:** none.

**Course Rules:** AIS 262 & HIST 262 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 263 North American Indian History Since 1887**

3 cr. Undergraduate.

A survey of American Indian history since 1887 with emphasis on federal policies and changing Indian societies in the twentieth century.

**Prerequisites:** none.

**Course Rules:** AIS 263 & Hist 263 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 271 Third-Semester Indigenous Languages of Wisconsin:**

3 cr. Undergraduate.

Third-semester speaking, listening, reading and writing skills in an indigenous language of Wisconsin.

**Prerequisites:** AIS 172(P) or level 3 placement.

**Course Rules:** Retakeable to 15 cr max. Previously AIS 251. Meets Cultural Diversity GER. Satisfies L&S Language Requirement and Foreign Language GER. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**General Education Requirements:** CD

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 272 Fourth-Semester Indigenous Languages of Wisconsin:**

3 cr. Undergraduate.

Fourth-semester speaking, listening, reading and writing skills in an indigenous language of Wisconsin.

**Prerequisites:** AIS 271(P) or level 4 placement.

**Course Rules:** Repeatable to 15 cr max. The topic 'Ojibwe' counts as a repeat of AIS 252. Satisfies L&S Language Requirement and Foreign Language GER. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

**General Education Requirements:** CD

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 276 Introduction to American Indian Literature:**

3 cr. Undergraduate.

Literature of the American Indian, focusing on major forms, prominent themes, or a particular tribe of time period.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** AIS 276 & English 276 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg in topic to 9 cr max.

**General Education Requirements:** CD, HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 289 Internship in American Indian Studies, Lower Division:**

1-6 cr. Undergraduate.

Application of basic principles of American Indian Studies in a business, organizational, educational, political, or other appropriate settings.

**Prerequisites:** AIS 101(P); 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 296 UROP Apprenticeship, Lower Division**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** Retakable w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 308 Archaeology of North America**

3 cr. Undergraduate/Graduate.

Main pre-Columbian cultures on the North American continent, north of Mexico.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2019, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 308G Archaeology of North America**

3 cr. Undergraduate/Graduate.

Main pre-Columbian cultures on the North American continent, north of Mexico.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2019, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 310 Archaeology of Middle America**

3 cr. Undergraduate/Graduate.

Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 310G Archaeology of Middle America**

3 cr. Undergraduate/Graduate.

Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 311 The World of the Ancient Maya**

3 cr. Undergraduate/Graduate.

Historical development of ancient Maya civilization from its origins to the Spanish Conquest.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 311G The World of the Ancient Maya**

3 cr. Undergraduate/Graduate.

Historical development of ancient Maya civilization from its origins to the Spanish Conquest.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 314 American Indian Societies and Cultures**

3 cr. Undergraduate/Graduate.

Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy.

**Prerequisites:** jr st; Anthro 102(R).**Course Rules:** AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2018, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AIS 314G American Indian Societies and Cultures**

3 cr. Undergraduate/Graduate.

Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy.

**Prerequisites:** jr st; Anthro 102(R).**Course Rules:** AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2018, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 321 Contemporary Issues of the American Indian**

3 cr. Undergraduate.

Development of the institutional structure of American Indian affairs; current economic and social problems, contemporary manifestations of American Indian spirit, e.g. activism and cultural experiences.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Course Rules:** AIS 321 and SOCIOL 321 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 360 Ezhi-Kinomaageying: Anishinaabe Curriculum**

3 cr. Undergraduate.

Hist of Anishinaabe language instruction, including impact of social and political movements and contemporary trends. Review and creation of effective instructional methods for teaching Anishinaabemowin.

**Prerequisites:** AIS 252(P) or cons instr.

**Course Rules:** Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Last Taught:** Spring 2022, Fall 2020, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 362 System Failure: Globalization and Language Extinction**

3 cr. Undergraduate/Graduate.

Role of globalization in the projected extinction of a large number of the world's languages within the next century.

**Prerequisites:** junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.

**Course Rules:** AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 362G System Failure: Globalization and Language Extinction**

3 cr. Undergraduate/Graduate.

Role of globalization in the projected extinction of a large number of the world's languages within the next century.

**Prerequisites:** junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.

**Course Rules:** AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 370 Anishinaabebiiige: Archival to Contemporary Writing**

3 cr. Undergraduate.

Introduction to researching, reading, and creating archival material for proficient speakers of Anishinaabemowin.

**Prerequisites:** AIS 252(P) or cons instr.

**Course Rules:** Generates L&S credit for demonstrated equivalent preparation (16 retro crs).

**Last Taught:** Spring 2022, Spring 2019, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 372 Survey of American Indian Literature**

3 cr. Undergraduate.

A general, representative study of the literature of the American Indian.

**Prerequisites:** jr st; satisfaction of GER English Composition Competency req.

**Course Rules:** AIS 372 & English 372 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 473 History of Wisconsin Indians**

3 cr. Undergraduate/Graduate.

History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Course Rules:** AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Last Taught:** Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 473G History of Wisconsin Indians**

3 cr. Undergraduate/Graduate.

History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Course Rules:** AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Last Taught:** Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 474 Topics in North American Indian History:**

3 cr. Undergraduate/Graduate.

Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** Retakable w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 474G Topics in North American Indian History:**

3 cr. Undergraduate/Graduate.

Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** Retakable w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 475 American Indian History, Law, and Government**

3 cr. Undergraduate/Graduate.

American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 475G American Indian History, Law, and Government**

3 cr. Undergraduate/Graduate.

American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 489 Internship in American Indian Studies, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of American Indian Studies in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.

**Last Taught:** Summer 2015, Spring 2015, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 496 UROP Apprenticeship, Upper Division**

1-3 cr. Undergraduate.

Advanced-level undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** jr st; acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.

**Last Taught:** Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 520 Studies in American Indian Literature:**

3 cr. Undergraduate.

Critical study of themes, figures, aspects, trends, etc., in American Indian Literature.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** AIS 520 & English 520 are jointly offered; w/same topic, they count as repeats of one another. Retakable w/chg of topic to 9 cr max.

**General Education Requirements:** CD

**Last Taught:** Fall 2020, Spring 2015, Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 600 Field Project - Capstone Research or Applied Project**

3 cr. Undergraduate.

Research or applied project on area of student's interest under supervision of AIS faculty member. Formal field project paper required.

**Prerequisites:** jr st; declared AIS major.

**Last Taught:** Fall 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 632 Seminar in American Indian Literature:**

3 cr. Undergraduate/Graduate.

Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian.

**Prerequisites:** senior standing, satisfaction of GER English Composition competency req, 9 cr ENGLISH and/or COMPLIT at the 300-level or above; or graduate standing.

**Course Rules:** AIS 632 and ENGLISH 632 are jointly offered; with the same topic, they count as repeats of one another. May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 632G Seminar in American Indian Literature:**

3 cr. Undergraduate/Graduate.

Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian.

**Prerequisites:** senior standing, satisfaction of GER English Composition competency req, 9 cr ENGLISH and/or COMPLIT at the 300-level or above; or graduate standing.

**Course Rules:** AIS 632 and ENGLISH 632 are jointly offered; with the same topic, they count as repeats of one another. May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AIS 699 Advanced Independent Study**

1-6 cr. Undergraduate.

Advanced independent work under the supervision of an AIS Program instructional staff member.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2022, Summer 2019, Spring 2019, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Ancient & Modern Languages, Literatures & Cultures (AMLLC)

**AMLLC 101 How to Learn a Language**

1 cr. Undergraduate.

This course provides language students with learning tools that are helpful for articulatory phonetics, morphology, grammatical inflections, word derivations, and explanations of unfamiliar grammatical constructions.

**Prerequisites:** none.

**Course Rules:** Previously FLL 101.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 102 Uncommonly Taught Language: Intensive First Semester:**

5-7 cr. Undergraduate.

Intensive training in an uncommonly taught language, for students with no previous knowledge of the language.

**Prerequisites:** none.

**Course Rules:** Previously FLL 102. May be retaken with change of language. AMLLC 102 and LINGUIS 102 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2009, Fall 2008, Summer 2004, Fall 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 103 First Semester of an Uncommonly-Taught Language:**

1-4 cr. Undergraduate.

Elementary training in an uncommonly-taught language (i.e. one not otherwise offered in any UWM program). Number of credits earned by the student is determined by the credit value assigned to section number.

**Prerequisites:** none.

**Course Rules:** Previously FLL 103. For students with no previous knowledge of the language. May be retaken with change in language. AMLLC 103 and LINGUIS 103 are jointly offered; with same topic, they count as repeats of one another.

**Last Taught:** Fall 2007, Fall 2006, Spring 2006, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 104 Second Semester of an Uncommonly Taught Language:**

3-4 cr. Undergraduate.

Continuation of AMLLC 103 and LINGUIS 103. Number of credits earned by student is determined by the credit value assigned to section number.

**Prerequisites:** FLL 103(P) or LINGUIS 103(P) in the same language.

**Course Rules:** Previously FLL 104. May be retaken with change in language. AMLLC 104 and LINGUIS 104 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2008, Spring 2007, Spring 2005, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 105 Intensive Elementary Language I:**

4 cr. Undergraduate.

Methodical study of the elements of a designated language; phonology, morphology, syntax, vocabulary. First five-week module in semester-long intensive program.

**Prerequisites:** AMLLC 216(C).

**Course Rules:** Previously FLL 105. May be retaken with change in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 106 Intensive Elementary Language II:**

4 cr. Undergraduate.

Continuation of AMLLC 105. A five-week intensive course offered as the second of three modules in a semester-long intensive program.

**Prerequisites:** AMLLC 105(C) or equivalent and AMLLC 216(C).

**Course Rules:** Previously FLL 106. May be retaken with change in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 109 First Semester Lao Literacy**

3 cr. Undergraduate.

Introduction to literacy skills in Lao. Intended for speakers of Lao.

**Prerequisites:** none.

**Course Rules:** Previously FLL 109.

**Last Taught:** Fall 2005, Fall 2004, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 110 Second Semester Lao Literacy**

3 cr. Undergraduate.

Continuation of AMLLC 109.

**Prerequisites:** AMLLC 109(P).

**Course Rules:** Previously FLL 110.

**Last Taught:** Spring 2006, Summer 2005, Spring 2005, Spring 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 192 First Year Seminar:**

3 cr. Undergraduate.

Specific topics announced in the Schedule of Classes each time course is offered.

**Prerequisites:** none.

**Course Rules:** Previously FLL 192. Open only to freshman. Students may earn cr in just one L&S First-Year Seminar (course numbers 192, 193, and 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2013, Fall 2012, Fall 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 199 Independent Study**

1-3 cr. Undergraduate.

Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** Previously FLL 199. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 202 Uncommonly Taught Language: Intensive Second Semester:**

5-7 cr. Undergraduate.

Continuation of AMLLC 102/LINGUIS 102.

**Prerequisites:** AMLLC 102(P) or LINGUIS 102(P) in the same language.

**Course Rules:** Previously FLL 202. May be retaken with change in language. AMLLC 202 and LINGUIS 202 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2010, Spring 2009, Summer 2004, Spring 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**AMLLC 203 Third Semester of an Uncommonly Taught Language:**

3-4 cr. Undergraduate.

Continuation of AMLLC 104/LINGUIS 104. Number of credits earned by student is determined by credit value assigned to section number.

**Prerequisites:** AMLLC 104(P) or LINGUIS 104(P) in the same language.**Course Rules:** Previously FLL 203. May be retaken with change in language. AMLLC 203 and LINGUIS 203 are jointly offered; with the same topic, they count as repeats of one another.**Last Taught:** Fall 2008, Fall 2007, Fall 2005, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AMLLC 204 Fourth Semester of an Uncommonly Taught Language:**

3-4 cr. Undergraduate.

Continuation of AMLLC 203/LINGUIS 203. Number of credits earned by student is determined by the credit value assigned to section number.

**Prerequisites:** AMLLC 203(P) or LINGUIS 203(P) in the same language.**Course Rules:** Previously FLL 204. May be retaken with change in language. AMLLC 204 and LINGUIS 204 are jointly offered; with the same topic, they count as repeats of one another.**Last Taught:** Spring 2009, Spring 2008, Spring 2005, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AMLLC 205 Intensive Intermediate Language I:**

3 cr. Undergraduate.

Completion of methodical study of elements of the designated language; emphasis on intensive review of/practice with vocabulary, morphology, syntax. Third five-week module in semester-long intensive program.

**Prerequisites:** AMLLC 106(C) or equivalent, and AMLLC 216(P).**Course Rules:** Previously FLL 205. May be retaken with change in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AMLLC 216 Survey of Civilization:**

3 cr. Undergraduate.

Survey of the civilization of the designated language from geographical, historical, and cultural perspectives; emphasis on reading in the language simple and intermediate texts that illustrate aspects of the civilization.

**Prerequisites:** AMLLC 105(C), AMLLC 106(C), and AMLLC 205(C).**Course Rules:** Previously FLL 205. May be retaken with change in topic.**General Education Requirements:** HU**Last Taught:** Spring 2015, Spring 2014, Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AMLLC 240 Vampires: From Slavic Village to Hollywood**

3 cr. Undergraduate.

Historical survey of western vampire lore from discovery in eastern Europe in the 1700's through British literary vampire literature to Hollywood Dracula films.

**Prerequisites:** none.**Course Rules:** Previously FLL 240. Not open to students who have taken AMLLC 192 (FLL 192) with similar topic.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AMLLC 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created especially for offering in a specified enrollment period.

Requires department and Associate Dean approval. In exceptional circumstances can be offered in one additional semester.

**Prerequisites:** none, except as required for specific topic.**Course Rules:** Previously FLL 299. May be retaken with change in topic.**Last Taught:** Spring 2007, Spring 2006, Spring 2005, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AMLLC 303 Fifth Semester of an Uncommonly Taught Language:**

3-4 cr. Undergraduate.

Continuation of FLL/Linguis 204(Linguis 232). Number of credits earned by student is determined by the credit value assigned to section number.

**Prerequisites:** FLL/Linguis 204(Linguis 232)(P) in same language.**Course Rules:** May be retaken w/chg in language. FLL 303 & Linguis 303 are jointly offered; w/same topic, they count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AMLLC 304 Sixth Semester of an Uncommonly Taught Language:**

3 cr. Undergraduate.

Continuation of AMLLC 303 and LINGUIS 303. Number of credits earned by student is determined by the credit value assigned to section number.

**Prerequisites:** AMLLC 303(P) or LINGUIS 303(P) in the same language.**Course Rules:** Previously FLL 304. May be retaken with change in language. AMLLC 304 and LINGUIS 304 are jointly offered; with the same topic, they count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AMLLC 381 Honors Seminar:**

3 cr. Undergraduate.

Seminar for Honors College students on various topics of world literatures, languages, and cultures.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.**Course Rules:** Previously FLL 381. Retakable with change in topic to 9 cr max.**General Education Requirements:** HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AMLLC 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires department and associate dean approval. In exceptional circumstances, can be offered in one additional semester.

**Prerequisites:** junior standing; additional prerequisites may be assigned to specific topic.**Course Rules:** Previously FLL 499. May be retaken with change in topic.**Last Taught:** Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**AMLLC 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced-level independent work under the supervision of a Foreign Languages and Literature faculty or academic staff member.

**Prerequisites:** junior standing, 2.0 GPA, and consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** Previously FLL 699. May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

# Anthropology (ANTHRO)

## ANTHRO 14 Foundations of Flamenco

1 cr. Undergraduate.

Survey of the social groups and forces that have led to the formation of the Andalusian Spanish form of musical expression, Flamenco.

**Prerequisites:** none.

**Last Taught:** Fall 2008, Fall 1998, Fall 1996, Fall 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 101 Introduction to Anthropology: Human Origins

3 cr. Undergraduate.

Principles of evolution, Mendelian genetics, human adaptability, and concept of race; natural history of primates; human evolution; archaeological evidence for the evolution of culture.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 102 Introduction to Anthropology: Culture and Society

3 cr. Undergraduate.

Science of human behavior in different cultural contexts; human biological and cultural variability; human societies of the present and recent past; dynamics of culture change.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 103 Digging Up the Past: Approaches to Archaeology

3 cr. Undergraduate.

Why and how extinct cultures are studied. Current archaeological approaches, reconstructing past environments, ethnographic analogy, experimental archaeology.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 104 Lifeways in Different Cultures: A Survey of World Societies

3 cr. Undergraduate.

Variety and diversity of human cultural adaptations. Specific peoples and cultures are discussed with respect to their similarities and uniquenesses.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 105 Introduction to Linguistic Anthropology

3 cr. Undergraduate.

Methods, techniques, and models of analysis of linguistic anthropology and their applications to the other subfields of anthropology.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 140 Games and Society

3 cr. Undergraduate.

Cultural and social contexts of play and games; institutions, technology, and games. 2 hrs lec, 1 hr dis.

**Prerequisites:** none.

**Course Rules:** Jointly offered with and counts as a repeat of DAC 140.

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 150 Multicultural America

3 cr. Undergraduate.

Comparative study of U.S. ethnic and racial identities through popular culture with attention to African-, Asian-, Hispanic-, and Native-American experiences.

**Prerequisites:** none.

**Course Rules:** Cultures and Communities Prog course; req'd service learning component.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 156 Food and Culture

3 cr. Undergraduate.

Social and cultural implications of food; nutritional and dietetic concerns of secondary interest. 2 hrs lec, 1 hr dis.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2021, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 193 First-Year Seminar:

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** SS

**Last Taught:** Fall 2019, Fall 2009, Fall 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 199 Independent Study

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2013, Summer 2012, Spring 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ANTHRO 203 Indigenous Religions

3 cr. Undergraduate.

A survey of the religious beliefs and practices of subsistence societies and their relationships to other aspects of culture.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Fall 2021, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 213 American Indian Peoples of Wisconsin**

3 cr. Undergraduate.

Past and contemporary societies and cultures of American Indians of Wisconsin, including the Chippewa (Ojibwa), Menominee, Winnebago, Oneida, Potawatomi, Stockbridge-Munsee.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 214 Ancient Civilizations of Latin America**

3 cr. Undergraduate.

A comparative archaeological overview of various civilizations that flourished in Latin America prior to the arrival of Spanish conquistadors in the early 16th century.

**Prerequisites:** none.**Last Taught:** Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 225 The Aztec Empire**

3 cr. Undergraduate.

Formation and expansion of the Aztec empire; description and analysis of Aztec culture, with an emphasis on archaeological and ethnohistoric perspectives.

**Prerequisites:** none.**Course Rules:** AIS 225 & Anthro 225 are jointly offered; they count as repeats of one another.**Last Taught:** Summer 2016, Spring 2014, Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 229 Madness and Culture**

3 cr. Undergraduate.

Madness of some kind as a recognized universal in human experience; variation in how madness is expressed, classified, and treated over time and across cultures.

**Prerequisites:** none.**Last Taught:** Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 250 Women's Roles in Cross-Cultural Perspective**

3 cr. Undergraduate.

Investigation of cross-cultural similarities and differences in women's roles; insights into the nature of women's roles in North American society.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2009, Fall 2007, Spring 2006, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 281 Dead Men Do Tell Tales: An Introduction to Forensic Science**

3 cr. Undergraduate.

A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.

**Prerequisites:** none.**Course Rules:** ANTHRO 281, BMS 281, CHEM 281, and CRM JST 281 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 285 Medicolegal Death Investigation**

3 cr. Undergraduate.

Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.

**Prerequisites:** none.**Course Rules:** Jointly-offered with & counts as repeat of Chem/BMS(C L Sci)/Crm Jst 285.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 289 Internship in Anthropology, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of anthropology in a business, organizational, educational, political, or other appropriate settings.

**Prerequisites:** Anthro 101(P), 102(P), 103(P) or 360(P); 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Last Taught:** Spring 2017, Spring 2011, Spring 2008, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.**Course Rules:** One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.**Last Taught:** Spring 2017, Spring 2014, Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2023, Fall 2022, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 298 Study Abroad: Brazil**

3 cr. Undergraduate.

Three weeks in Brazil participating in seminars, visiting urban businesses, religious centers, squatter settlements, etc., and traveling to rural cattle ranches, sugar cane plantations etc.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2000, Spring 1989, Fall 1988.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ANTHRO 301 Human Evolution and Variation**

3 cr. Undergraduate.

Theory, mechanisms, and processes of biological evolution applied to problems of the primate and human fossil record and contemporary human populations. 2 hrs lec, 2 hrs lab.

**Prerequisites:** soph st; Anthro 101(P), Bio Sci 100(P), 102(P), or 150(P), or cons instr.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 302 Anthropology and Popular Culture**

3 cr. Undergraduate/Graduate.

Aspects of popular culture including music, information technology, tourism, and film, video, and museum-spectacles in light of anthropological theory.

**Prerequisites:** jr st; grade of C or better in English 102(P) or score of 637 or higher on EPT.

**Last Taught:** Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 302G Anthropology and Popular Culture**

3 cr. Undergraduate/Graduate.

Aspects of popular culture including music, information technology, tourism, and film, video, and museum-spectacles in light of anthropological theory.

**Prerequisites:** jr st; grade of C or better in English 102(P) or score of 637 or higher on EPT.

**Last Taught:** Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 304 Violence and Warfare in Prehistory**

3 cr. Undergraduate/Graduate.

Archaeological evidence for the origin and maintenance of violence and warfare in prehistory. How archaeological inquiry is affected by current politics, ethics, and morality.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 304G Violence and Warfare in Prehistory**

3 cr. Undergraduate/Graduate.

Archaeological evidence for the origin and maintenance of violence and warfare in prehistory. How archaeological inquiry is affected by current politics, ethics, and morality.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 305 The Celtic World**

3 cr. Undergraduate/Graduate.

Archaeology, folklore and literature of the Celtic peoples in the British Isles and on the continent, explored and analyzed from an anthropological and historical perspective.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 305G The Celtic World**

3 cr. Undergraduate/Graduate.

Archaeology, folklore and literature of the Celtic peoples in the British Isles and on the continent, explored and analyzed from an anthropological and historical perspective.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 306 European Archaeology**

3 cr. Undergraduate/Graduate.

Old World cultural development focusing on prehistoric Europe from the Paleolithic to the Roman period; European developments compared to other parts of the Old World.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 306G European Archaeology**

3 cr. Undergraduate/Graduate.

Old World cultural development focusing on prehistoric Europe from the Paleolithic to the Roman period; European developments compared to other parts of the Old World.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 307 World Archaeology: Foundations of Civilization**

3 cr. Undergraduate/Graduate.

Cultural developments in selected areas of Old and New Worlds; emphasis on origins of plant and animal domestication, sedentary life, and transition to urban civilization.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 307G World Archaeology: Foundations of Civilization**

3 cr. Undergraduate/Graduate.

Cultural developments in selected areas of Old and New Worlds; emphasis on origins of plant and animal domestication, sedentary life, and transition to urban civilization.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 308 Archaeology of North America**

3 cr. Undergraduate/Graduate.

Main pre-Columbian cultures on the North American continent, north of Mexico.

**Prerequisites:** jr st; Anthro 103 (P) or cons instr.

**Course Rules:** AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 308G Archaeology of North America**

3 cr. Undergraduate/Graduate.

Main pre-Columbian cultures on the North American continent, north of Mexico.

**Prerequisites:** jr st; Anthro 103 (P) or cons instr.**Course Rules:** AIS 308 & Anthro 308 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 309 Archaeology of Central and South America**

3 cr. Undergraduate/Graduate.

Main pre-Columbian cultures and civilizations of Central and South America, including the Caribbean.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 309G Archaeology of Central and South America**

3 cr. Undergraduate/Graduate.

Main pre-Columbian cultures and civilizations of Central and South America, including the Caribbean.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 310 Archaeology of Middle America**

3 cr. Undergraduate/Graduate.

Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2015, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 310G Archaeology of Middle America**

3 cr. Undergraduate/Graduate.

Historical development and ecological settings of cultures and civilizations in Mexico and Central America from earliest times to the Spanish conquest.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** AIS 310 & Anthro 310 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2015, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 311 The World of the Ancient Maya**

3 cr. Undergraduate/Graduate.

Historical development of ancient Maya civilization from its origins to the Spanish Conquest.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 311G The World of the Ancient Maya**

3 cr. Undergraduate/Graduate.

Historical development of ancient Maya civilization from its origins to the Spanish Conquest.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** AIS 311 & Anthro 311 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 312 The Past on Tap: The Archaeology of Fermented Beverages**

3 cr. Undergraduate/Graduate.

Introduction to the production, distribution and consumption of fermented beverages in the ancient world with a particular emphasis on archaeological evidence.

**Prerequisites:** none.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 312G The Past on Tap: The Archaeology of Fermented Beverages**

3 cr. Undergraduate/Graduate.

Introduction to the production, distribution and consumption of fermented beverages in the ancient world with a particular emphasis on archaeological evidence.

**Prerequisites:** none.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 313 Archaeology of the American Southwest**

3 cr. Undergraduate/Graduate.

Pre-Hispanic cultures of the southwestern United States and northwestern Mexico.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 313G Archaeology of the American Southwest**

3 cr. Undergraduate/Graduate.

Pre-Hispanic cultures of the southwestern United States and northwestern Mexico.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 314 American Indian Societies and Cultures**

3 cr. Undergraduate/Graduate.

Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy.

**Prerequisites:** jr st; Anthro 102(R).**Course Rules:** AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2018, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 314G American Indian Societies and Cultures**

3 cr. Undergraduate/Graduate.

Description and analysis of selected indigenous American cultures including subsistence, sociopolitical organizations, beliefs and Euro-American Indian policy.

**Prerequisites:** jr st; Anthro 102(R).

**Course Rules:** AIS 314 & Anthro 314 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2018, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 320 Peoples and Cultures of Africa**

3 cr. Undergraduate/Graduate.

Description and analysis of the cultures of Africa, especially south of the Sahara.

**Prerequisites:** Preq: jr st; Anthro 102(R); grade of C or better in English 102(P) or score 637 or higher on EPT.

**Last Taught:** Fall 2005, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 320G Peoples and Cultures of Africa**

3 cr. Undergraduate/Graduate.

Description and analysis of the cultures of Africa, especially south of the Sahara.

**Prerequisites:** Preq: jr st; Anthro 102(R); grade of C or better in English 102(P) or score 637 or higher on EPT.

**Last Taught:** Fall 2005, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 322 Europe in Anthropological Perspective**

3 cr. Undergraduate/Graduate.

Key topics in the anthropology of Europe, including nationalism and ritual, gender and politics, borders and immigration, and bureaucracy and citizenship.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 322G Europe in Anthropological Perspective**

3 cr. Undergraduate/Graduate.

Key topics in the anthropology of Europe, including nationalism and ritual, gender and politics, borders and immigration, and bureaucracy and citizenship.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 325 Japanese Culture and Society**

3 cr. Undergraduate/Graduate.

Japanese culture and society, including marriage and the family, work life, education, rural and urban social organization, gender, ritual and life cycle.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Fall 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 325G Japanese Culture and Society**

3 cr. Undergraduate/Graduate.

Japanese culture and society, including marriage and the family, work life, education, rural and urban social organization, gender, ritual and life cycle.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Fall 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 326 Peoples and Cultures of South Asia**

3 cr. Undergraduate/Graduate.

The subcontinent south of the Himalayas, including India, Nepal, Pakistan, Bangladesh, and Sri Lanka.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Spring 2016, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 326G Peoples and Cultures of South Asia**

3 cr. Undergraduate/Graduate.

The subcontinent south of the Himalayas, including India, Nepal, Pakistan, Bangladesh, and Sri Lanka.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Spring 2016, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 328 Comparative Studies of Music, Race, and Gender in Nationalism**

3 cr. Undergraduate/Graduate.

A comparative study of the processes of nation-formation and of the roles played by race, gender, and music in constructing national identities.

**Prerequisites:** jr st; Anthro 102(R); grade of C or better in English 102(P) or score 637 or higher on EPT.

**Last Taught:** Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 328G Comparative Studies of Music, Race, and Gender in Nationalism**

3 cr. Undergraduate/Graduate.

A comparative study of the processes of nation-formation and of the roles played by race, gender, and music in constructing national identities.

**Prerequisites:** jr st; Anthro 102(R); grade of C or better in English 102(P) or score 637 or higher on EPT.

**Last Taught:** Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 335 American Indians of the Southeast**

3 cr. Undergraduate/Graduate.

Description and analysis of Southeastern Indian cultures, including subsistence, sociopolitical organizations, beliefs, and Euro-American relations.

**Prerequisites:** jr st; Anthro 102(R) & 314(R).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 335G American Indians of the Southeast**

3 cr. Undergraduate/Graduate.

Description and analysis of Southeastern Indian cultures, including subsistence, sociopolitical organizations, beliefs, and Euro-American relations.

**Prerequisites:** jr st; Anthro 102(R) & 314(R).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 340 Cultures of Online Games and Virtual Worlds**

3 cr. Undergraduate/Graduate.

Anthropological understandings of online games and virtual worlds including: conceptual foundations, current topics, methodological issues, and first-hand experience.

**Prerequisites:** jr st.**Last Taught:** Summer 2023, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 340G Cultures of Online Games and Virtual Worlds**

3 cr. Undergraduate/Graduate.

Anthropological understandings of online games and virtual worlds including: conceptual foundations, current topics, methodological issues, and first-hand experience.

**Prerequisites:** jr st.**Last Taught:** Summer 2023, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 349 Seminar in Ethnography and Cultural Processes**

3 cr. Undergraduate/Graduate.

How sociocultural processes are confronted and represented through the genre of ethnography; new monographs used to chart innovations in the form.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 349G Seminar in Ethnography and Cultural Processes**

3 cr. Undergraduate/Graduate.

How sociocultural processes are confronted and represented through the genre of ethnography; new monographs used to chart innovations in the form.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 351 Anthropological Theories of Religion**

3 cr. Undergraduate.

Anthropological theories of religion covering magic and witchcraft, moral order, sacred and profane, alienation, capitalism, neurosis, ritual, fetishism, fundamentalism, conversion, sacrifice, and healing.

**Prerequisites:** junior standing.**Course Rules:** ANTHRO 351 and RELIGST 351 count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 354 Anthropology, Aesthetics, and Art**

3 cr. Undergraduate/Graduate.

Arts and aesthetics in anthropological perspective; their relation to other aspects of culture, prehistoric and contemporary art, and material culture.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 354G Anthropology, Aesthetics, and Art**

3 cr. Undergraduate/Graduate.

Arts and aesthetics in anthropological perspective; their relation to other aspects of culture, prehistoric and contemporary art, and material culture.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 355 Globalization, Culture, and Environment**

3 cr. Undergraduate.

Anthropological approaches to examining the concept of environmental justice as a crucial component of global security.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**General Education Requirements:** SS**Last Taught:** Fall 2019, Fall 2018, Fall 2016, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 361 Applications in Linguistic Anthropology**

3 cr. Undergraduate/Graduate.

Advanced work in linguistic anthropology designed to give students applied skills in cross-linguistic studies.

**Prerequisites:** jr st; Anthro 105(360)(P) or cons instr.**Last Taught:** Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 361G Applications in Linguistic Anthropology**

3 cr. Undergraduate/Graduate.

Advanced work in linguistic anthropology designed to give students applied skills in cross-linguistic studies.

**Prerequisites:** jr st; Anthro 105(360)(P) or cons instr.**Last Taught:** Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 362 System Failure: Globalization and Language Extinction**

3 cr. Undergraduate/Graduate.

Role of globalization in the projected extinction of a large number of the world's languages within the next century.

**Prerequisites:** junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.**Course Rules:** AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 362G System Failure: Globalization and Language Extinction**

3 cr. Undergraduate/Graduate.

Role of globalization in the projected extinction of a large number of the world's languages within the next century.

**Prerequisites:** junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.**Course Rules:** AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 380 Anthropological Applications of GIS**

3 cr. Undergraduate/Graduate.

Use of GIS in archaeology, cultural anthropology, and physical anthropology.

**Prerequisites:** jr st; a course in anthro.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 380G Anthropological Applications of GIS**

3 cr. Undergraduate/Graduate.

Use of GIS in archaeology, cultural anthropology, and physical anthropology.

**Prerequisites:** jr st; a course in anthro.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 381 Honors Seminar:**

3 cr. Undergraduate.

Selected topics in cultural anthropology, ethnography, prehistory, and human evolution.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2021, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 400 Human Sociobiology**

3 cr. Undergraduate/Graduate.

Application of the principles of evolutionary theory and behavioral ecology to the social and cultural life of humans and other primates.

**Prerequisites:** jr st; Anthro 101(R) or 102(R).

**Last Taught:** Fall 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 400G Human Sociobiology**

3 cr. Undergraduate/Graduate.

Application of the principles of evolutionary theory and behavioral ecology to the social and cultural life of humans and other primates.

**Prerequisites:** jr st; Anthro 101(R) or 102(R).

**Last Taught:** Fall 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 401 Primate Populations**

3 cr. Undergraduate/Graduate.

Ecological behavioral genetic and multidisciplinary field studies of nonhuman primates.

**Prerequisites:** jr st; Anthro 301(P) or cons instr; grade of C or better in English 102(P) or score of 637 or higher on EPT.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 401G Primate Populations**

3 cr. Undergraduate/Graduate.

Ecological behavioral genetic and multidisciplinary field studies of nonhuman primates.

**Prerequisites:** jr st; Anthro 301(P) or cons instr; grade of C or better in English 102(P) or score of 637 or higher on EPT.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 402 Primate Evolution**

3 cr. Undergraduate/Graduate.

Evolution, adaptation, and distribution of living primates, including humans, comparative primate adaptations and skeletal anatomy. Evolutionary theory and its application to the primate fossil record.

**Prerequisites:** jr st; Anthro 301(P) or cons instr.

**General Education Requirements:** NS

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 402G Primate Evolution**

3 cr. Undergraduate/Graduate.

Evolution, adaptation, and distribution of living primates, including humans, comparative primate adaptations and skeletal anatomy. Evolutionary theory and its application to the primate fossil record.

**Prerequisites:** jr st; Anthro 301(P) or cons instr.

**General Education Requirements:** NS

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 403 The Human Skeleton**

3 cr. Undergraduate/Graduate.

Morphological and functional examination of the skeletal system. Microscopic and biomedical considerations of bone and cartilage, age, sex, and regional differences among modern human populations. Combined lec/lab.

**Prerequisites:** jr st; Anthro 301(P) or cons instr.

**General Education Requirements:** NS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 403G The Human Skeleton**

3 cr. Undergraduate/Graduate.

Morphological and functional examination of the skeletal system. Microscopic and biomedical considerations of bone and cartilage, age, sex, and regional differences among modern human populations. Combined lec/lab.

**Prerequisites:** jr st; Anthro 301(P) or cons instr.

**General Education Requirements:** NS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 404 Human Biological Variation**

3 cr. Undergraduate/Graduate.

Evolutionary principles influencing human populations. Variation within and between human groups.

**Prerequisites:** jr st; ANTHRO 301(P) or consent of instructor; satisfaction of OWC-A.

**Last Taught:** Spring 2020, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 404G Human Biological Variation**

3 cr. Undergraduate/Graduate.

Evolutionary principles influencing human populations. Variation within and between human groups.

**Prerequisites:** jr st; ANTHRO 301(P) or consent of instructor; satisfaction of OWC-A.

**Last Taught:** Spring 2020, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 405 Forensic Anthropology**

3 cr. Undergraduate/Graduate.

Techniques in the forensic analysis of human skeletal material. Introduction to death investigation and forensic pathology.

**Prerequisites:** jr st; Anthro 403(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 405G Forensic Anthropology**

3 cr. Undergraduate/Graduate.

Techniques in the forensic analysis of human skeletal material. Introduction to death investigation and forensic pathology.

**Prerequisites:** jr st; Anthro 403(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 406 Evolutionary Biology & Human Diseases**

3 cr. Undergraduate/Graduate.

Evolutionary principles applied to our understanding of infectious and chronic diseases common to human populations, both past and present.

**Prerequisites:** jr st; Anthro 301(R), Bio Sci 100(R) or 150(R).**Last Taught:** Spring 2023, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 406G Evolutionary Biology & Human Diseases**

3 cr. Undergraduate/Graduate.

Evolutionary principles applied to our understanding of infectious and chronic diseases common to human populations, both past and present.

**Prerequisites:** jr st; Anthro 301(R), Bio Sci 100(R) or 150(R).**Last Taught:** Spring 2023, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 407 Neuroanthropology**

3 cr. Undergraduate/Graduate.

Anthropological theories of human brain evolution, and its role in complex human cultural traits, including sociality, language, tool manufacture, cognition, and emotion.

**Prerequisites:** jr st; Anthro 101(P) or Bio Sci 150(P).**Course Rules:** Counts as repeat of Anthro 641 with same topic.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 407G Neuroanthropology**

3 cr. Undergraduate/Graduate.

Anthropological theories of human brain evolution, and its role in complex human cultural traits, including sociality, language, tool manufacture, cognition, and emotion.

**Prerequisites:** jr st; Anthro 101(P) or Bio Sci 150(P).**Course Rules:** Counts as repeat of Anthro 641 with same topic.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 408 Hormones and Behavior**

3 cr. Undergraduate/Graduate.

Roles of hormones in evolution and expression of animal behaviors, particularly aggression, stress, mating, parenting, and cognition; emphasis on humans.

**Prerequisites:** jr st; intro course in physical anthro, bio sci, or psych.**Course Rules:** Counts as repeat of Anthro 641 w/same topic.**Last Taught:** Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 408G Hormones and Behavior**

3 cr. Undergraduate/Graduate.

Roles of hormones in evolution and expression of animal behaviors, particularly aggression, stress, mating, parenting, and cognition; emphasis on humans.

**Prerequisites:** jr st; intro course in physical anthro, bio sci, or psych.**Course Rules:** Counts as repeat of Anthro 641 w/same topic.**Last Taught:** Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 409 Evolution, Religion, and Human Biology**

3 cr. Undergraduate/Graduate.

Nature and evolutionary origins of human religion as well as empirical evidence for the effects of religion on human health.

**Prerequisites:** jr st; Anthro 101(P) or an intro bio sci course.**Last Taught:** Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 409G Evolution, Religion, and Human Biology**

3 cr. Undergraduate/Graduate.

Nature and evolutionary origins of human religion as well as empirical evidence for the effects of religion on human health.

**Prerequisites:** jr st; Anthro 101(P) or an intro bio sci course.**Last Taught:** Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 420 Power and Ideology in Archaeology**

3 cr. Undergraduate/Graduate.

Nature of and relationship between power and ideology in past societies; theoretical perspectives and methods used by archaeologists to study power and ideology.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** Counts as a repeat of Anthro 641 w/similar title.**Last Taught:** Fall 2015, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 420G Power and Ideology in Archaeology**

3 cr. Undergraduate/Graduate.

Nature of and relationship between power and ideology in past societies; theoretical perspectives and methods used by archaeologists to study power and ideology.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** Counts as a repeat of Anthro 641 w/similar title.**Last Taught:** Fall 2015, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 421 Cities in the Ancient World**

3 cr. Undergraduate/Graduate.

Cross-cultural comparison of the world's first cities; the emergence of cities and their role in the development of ancient civilizations.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 421G Cities in the Ancient World**

3 cr. Undergraduate/Graduate.

Cross-cultural comparison of the world's first cities; the emergence of cities and their role in the development of ancient civilizations.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 424 Ethnoarchaeology and Experimental Archaeology**

3 cr. Undergraduate/Graduate.

Combination of ethnographic and experimental methods with archaeological research questions to achieve a better understanding of material culture.

**Prerequisites:** junior standing, ANTHRO 102(P) or ANTHRO 103(P), and satisfaction of OWC-A; or consent of instructor.**Course Rules:** Counts as a repeat of ANTHRO 641 w/same topic.**General Education Requirements:** OWCB**Last Taught:** Fall 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 424G Ethnoarchaeology and Experimental Archaeology**

3 cr. Undergraduate/Graduate.

Combination of ethnographic and experimental methods with archaeological research questions to achieve a better understanding of material culture.

**Prerequisites:** junior standing, ANTHRO 102(P) or ANTHRO 103(P), and satisfaction of OWC-A; or consent of instructor.

**Course Rules:** Counts as a repeat of ANTHRO 641 w/same topic.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 425 Hunter-Gatherer Lifeways: Past and Present**

3 cr. Undergraduate/Graduate.

Cross-cultural comparisons of hunter-gatherer societies, including archaeological, ethnohistorical, and ethnographic approaches.

**Prerequisites:** jr st; Anthro 102(P) or 103(P) or cons instr.

**Last Taught:** Fall 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 425G Hunter-Gatherer Lifeways: Past and Present**

3 cr. Undergraduate/Graduate.

Cross-cultural comparisons of hunter-gatherer societies, including archaeological, ethnohistorical, and ethnographic approaches.

**Prerequisites:** jr st; Anthro 102(P) or 103(P) or cons instr.

**Last Taught:** Fall 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 426 Who Owns the Past?**

3 cr. Undergraduate/Graduate.

Social/political ramifications of the study, interpretation, presentation, conservation of the archaeological past; institutions/stakeholders involved in those processes: museums, scholars, ethnic groups, the public.

**Prerequisites:** jr st; Anthro 102(P) or 103(P) or cons instr.

**Course Rules:** Counts as a repeat of Anthro 641 w/same topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 426G Who Owns the Past?**

3 cr. Undergraduate/Graduate.

Social/political ramifications of the study, interpretation, presentation, conservation of the archaeological past; institutions/stakeholders involved in those processes: museums, scholars, ethnic groups, the public.

**Prerequisites:** jr st; Anthro 102(P) or 103(P) or cons instr.

**Course Rules:** Counts as a repeat of Anthro 641 w/same topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 431 Cities and Culture**

3 cr. Undergraduate/Graduate.

Cross-cultural analysis; relation of urban space to community, capitalism, migration, class, globalization, social and artistic movements; methods for ethnographic study.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Fall 2019, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 431G Cities and Culture**

3 cr. Undergraduate/Graduate.

Cross-cultural analysis; relation of urban space to community, capitalism, migration, class, globalization, social and artistic movements; methods for ethnographic study.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Fall 2019, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 432 Law and Society**

3 cr. Undergraduate.

Overview of the field of law and society through an anthropological lens.

Comparatively explores social and moral order and legal processes through case studies in a variety of international legal and cultural settings.

**Prerequisites:** junior standing or higher; ANTHRO 102(R).

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 433 Contemporary Issues in Global Justice**

3 cr. Undergraduate.

Explores efforts to achieve social justice on a global stage through an anthropological lens. Covers social movements and civil society activist campaigns via international case studies.

**Prerequisites:** junior standing or higher; ANTHRO 102(R).

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 439 Culture and Global Health**

3 cr. Undergraduate/Graduate.

Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease.

**Prerequisites:** junior standing.

**Course Rules:** ANTHRO 439 & GLOBAL 439 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 439G Culture and Global Health**

3 cr. Undergraduate/Graduate.

Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease.

**Prerequisites:** junior standing.

**Course Rules:** ANTHRO 439 & GLOBAL 439 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 440 Medical Anthropology**

3 cr. Undergraduate/Graduate.

Comparative study of medical systems; cultural meaning of illness and the healing process; social origins of disease.

**Prerequisites:** jr st; Anthro 102(P); grade of C or better in English 102(P) or score of 637 or higher on EPT.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 440G Medical Anthropology**

3 cr. Undergraduate/Graduate.

Comparative study of medical systems; cultural meaning of illness and the healing process; social origins of disease.

**Prerequisites:** jr st; Anthro 102(P); grade of C or better in English 102(P) or score of 637 or higher on EPT.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 441 Nature, Knowledge, and Technoscience in Anthropological Perspective**

3 cr. Undergraduate/Graduate.

Anthropological approaches to contemporary issues of science in society; critical perspectives on knowledge construction with respect to culture and indigenous traditions, race, class and gender.

**Prerequisites:** jr. st**Last Taught:** Fall 2014, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 441G Nature, Knowledge, and Technoscience in Anthropological Perspective**

3 cr. Undergraduate/Graduate.

Anthropological approaches to contemporary issues of science in society; critical perspectives on knowledge construction with respect to culture and indigenous traditions, race, class and gender.

**Prerequisites:** jr. st**Last Taught:** Fall 2014, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 442 Humanitarianism in Global Perspective**

3 cr. Undergraduate/Graduate.

Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking.

**Prerequisites:** junior standing; previous completion of a social science course.**Course Rules:** ANTHRO 442 & GLOBAL 442 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2019, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 442G Humanitarianism in Global Perspective**

3 cr. Undergraduate/Graduate.

Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking.

**Prerequisites:** junior standing; previous completion of a social science course.**Course Rules:** ANTHRO 442 & GLOBAL 442 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2019, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 443 Medicine and Pharmaceuticals in the Global Age**

3 cr. Undergraduate/Graduate.

The practices of medicine and the distribution of pharmaceuticals globally.

**Prerequisites:** junior standing; ANTHRO 440(R).**Course Rules:** ANTHRO 443 & GLOBAL 443 are jointly offered; they count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 443G Medicine and Pharmaceuticals in the Global Age**

3 cr. Undergraduate/Graduate.

The practices of medicine and the distribution of pharmaceuticals globally.

**Prerequisites:** junior standing; ANTHRO 440(R).**Course Rules:** ANTHRO 443 & GLOBAL 443 are jointly offered; they count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 445 Psychological Anthropology**

3 cr. Undergraduate/Graduate.

The relationship between individual and society; cultural influences on cognition, personality, identity, and emotion; and the comparative study of mental disorder.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 445G Psychological Anthropology**

3 cr. Undergraduate/Graduate.

The relationship between individual and society; cultural influences on cognition, personality, identity, and emotion; and the comparative study of mental disorder.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 446 The Child in Different Cultures**

3 cr. Undergraduate/Graduate.

Relationship of child development to particular cultural milieus; methods of child training in different cultures and their effects on the development of adult personality.

**Prerequisites:** jr st; Anthro 102(R) or Psych 101(R) or Sociol 101(R).**General Education Requirements:** SS**Last Taught:** Spring 2022, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 446G The Child in Different Cultures**

3 cr. Undergraduate/Graduate.

Relationship of child development to particular cultural milieus; methods of child training in different cultures and their effects on the development of adult personality.

**Prerequisites:** jr st; Anthro 102(R) or Psych 101(R) or Sociol 101(R).**General Education Requirements:** SS**Last Taught:** Spring 2022, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 447 The Global Politics of Human Rights**

3 cr. Undergraduate/Graduate.

Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.

**Prerequisites:** junior standing; ANTHRO 102(R).**Course Rules:** ANTHRO 447 & GLOBAL 447 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ANTHRO 447G The Global Politics of Human Rights**

3 cr. Undergraduate/Graduate.

Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.

**Prerequisites:** junior standing; ANTHRO 102(R).

**Course Rules:** ANTHRO 447 & GLOBAL 447 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 448 Cultural and Human Ecology**

3 cr. Undergraduate/Graduate.

Relationships of human societies to natural environments; energy systems involved in processes of human adaptation; ways in which culture and society operate as dynamic components of that exchange.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Spring 2023, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 448G Cultural and Human Ecology**

3 cr. Undergraduate/Graduate.

Relationships of human societies to natural environments; energy systems involved in processes of human adaptation; ways in which culture and society operate as dynamic components of that exchange.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Spring 2023, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 449 The Human Economy**

3 cr. Undergraduate/Graduate.

Uses and allocation of resources; modes of production and distribution and their relationship to kinship, politics, and other aspects of culture.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 449G The Human Economy**

3 cr. Undergraduate/Graduate.

Uses and allocation of resources; modes of production and distribution and their relationship to kinship, politics, and other aspects of culture.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 450 Political Anthropology**

3 cr. Undergraduate/Graduate.

Political organization: forms of authority, responsibility, accountability, and power in societies at different levels of social complexity and in different ecological contexts.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 450G Political Anthropology**

3 cr. Undergraduate/Graduate.

Political organization: forms of authority, responsibility, accountability, and power in societies at different levels of social complexity and in different ecological contexts.

**Prerequisites:** jr st; Anthro 102(R).

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 460 Anthropological Theory**

3 cr. Undergraduate/Graduate.

Critical examination of the development and current status of the major paradigms and theories employed in anthropological studies.

**Prerequisites:** sr st; Anthro 102(R).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 460G Anthropological Theory**

3 cr. Undergraduate/Graduate.

Critical examination of the development and current status of the major paradigms and theories employed in anthropological studies.

**Prerequisites:** sr st; Anthro 102(R).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 465 Historic Preservation in Archaeology**

3 cr. Undergraduate/Graduate.

Historic preservation and cultural resource management in American archaeology; the legislative base, federal and state programs, the national register, regional planning, and research orientations.

**Prerequisites:** jr st.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 465G Historic Preservation in Archaeology**

3 cr. Undergraduate/Graduate.

Historic preservation and cultural resource management in American archaeology; the legislative base, federal and state programs, the national register, regional planning, and research orientations.

**Prerequisites:** jr st.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 466 Historical Archaeology**

3 cr. Undergraduate/Graduate.

Development of the historical archaeology discipline; issues of method and theory; use of documentary, oral, and material culture evidence to interpret the recent past. Counts as repeat of Anthro 641 with same topic.

Prereq: jr st; Anthro 103 (P) or cons instr.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 466G Historical Archaeology**

3 cr. Undergraduate/Graduate.

Development of the historical archaeology discipline; issues of method and theory; use of documentary, oral, and material culture evidence to interpret the recent past. Counts as repeat of Anthro 641 with same topic.

Prereq: jr st; Anthro 103 (P) or cons instr.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 467 Archaeological Curation: A Practicum in the Care of Research Collections**

3 cr. Undergraduate/Graduate.

Practicum in archaeological curation focusing on conservation and preservation, pest management, storage, collection accessibility, accountability, curation policies, federal regulations, and ethics.

**Prerequisites:** jr st; Anthro 103(P) or cons instr; or grad st.

**Course Rules:** Counts as repeat of Anthro 641 w/similar topic.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 467G Archaeological Curation: A Practicum in the Care of Research Collections**

3 cr. Undergraduate/Graduate.

Practicum in archaeological curation focusing on conservation and preservation, pest management, storage, collection accessibility, accountability, curation policies, federal regulations, and ethics.

**Prerequisites:** jr st; Anthro 103(P) or cons instr; or grad st.**Course Rules:** Counts as repeat of Anthro 641 w/similar topic.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 481 Criminalistics**

3 cr. Undergraduate.

Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P).**Course Rules:** Anthro 481, Chem 481, C L Sci 481, & Crm Jst 481 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 489 Internship in Anthropology, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of anthropology in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2022, Spring 2022, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2013, Summer 2011, Spring 2009, Spring 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 501 Archaeology of Death**

3 cr. Undergraduate/Graduate.

Archaeological study of mortuary behavior and osteology to understand cultural variability in social organization, disease, nutrition, and violence.

**Prerequisites:** jr st; Anthro 103(P) or cons instr; grade of C or better in English 102(P) or score 637 or higher on EPT.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 501G Archaeology of Death**

3 cr. Undergraduate/Graduate.

Archaeological study of mortuary behavior and osteology to understand cultural variability in social organization, disease, nutrition, and violence.

**Prerequisites:** jr st; Anthro 103(P) or cons instr; grade of C or better in English 102(P) or score 637 or higher on EPT.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 502 Lithic Analysis: Stone Tools and Human Behavior**

3 cr. Undergraduate/Graduate.

Stone tool production use, and archaeological analysis; experimental knapping, heat treatment, and other exercises. No cr for student w/cr in Anthro 641 w/similar topic.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 502G Lithic Analysis: Stone Tools and Human Behavior**

3 cr. Undergraduate/Graduate.

Stone tool production use, and archaeological analysis; experimental knapping, heat treatment, and other exercises. No cr for student w/cr in Anthro 641 w/similar topic.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 525 Zooarchaeology: Analysis of Faunal Remains**

3 cr. Undergraduate/Graduate.

Theory and method, including practical labs, in the analysis of animal remains from archaeological contexts.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 525G Zooarchaeology: Analysis of Faunal Remains**

3 cr. Undergraduate/Graduate.

Theory and method, including practical labs, in the analysis of animal remains from archaeological contexts.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 530 Paleoethnobotany: Introduction & Lab Methods**

3 cr. Undergraduate/Graduate.

Introduction to the field of paleoethnobotany and hands-on lab methods for the analysis of archaeological plant remains.

**Prerequisites:** junior standing; ANTHRO 103 or consent of instructor; or graduate standing.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 530G Paleoethnobotany: Introduction & Lab Methods**

3 cr. Undergraduate/Graduate.

Introduction to the field of paleoethnobotany and hands-on lab methods for the analysis of archaeological plant remains.

**Prerequisites:** junior standing; ANTHRO 103 or consent of instructor; or graduate standing.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 535 Analysis of Archaeological Ceramics**

3 cr. Undergraduate/Graduate.

Archaeological approaches to ceramic analysis including theory and methods; ethnoarchaeological, experimental, compositional, and stylistic approaches; practical skills including sorting, typing, and reporting ceramic assemblages.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** Counts as repeat of Anthro 641 with similar topic.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 535G Analysis of Archaeological Ceramics**

3 cr. Undergraduate/Graduate.

Archaeological approaches to ceramic analysis including theory and methods; ethnoarchaeological, experimental, compositional, and stylistic approaches; practical skills including sorting, typing, and reporting ceramic assemblages.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** Counts as repeat of Anthro 641 with similar topic.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 540 Applications of Anthropology**

3 cr. Undergraduate/Graduate.

Uses of anthropological concepts, methods, and findings in human problems resulting from culture change.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** UWinterIM 2012, UWinterIM 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 540G Applications of Anthropology**

3 cr. Undergraduate/Graduate.

Uses of anthropological concepts, methods, and findings in human problems resulting from culture change.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** UWinterIM 2012, UWinterIM 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 543 Cross-Cultural Study of Religion**

3 cr. Undergraduate/Graduate.

Various approaches to the study of religion; religions of selected non-Western societies.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Fall 2015, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 543G Cross-Cultural Study of Religion**

3 cr. Undergraduate/Graduate.

Various approaches to the study of religion; religions of selected non-Western societies.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Fall 2015, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 544 Religious Giving in Anthropological Perspective**

3 cr. Undergraduate.

Seminar on religious directives for giving in historical and cross-cultural perspective, including Christian, Hindu, Buddhist, Muslim, and Jewish ideas of charity, philanthropy, and social welfare.

**Prerequisites:** junior standing.**Course Rules:** ANTHRO 544 & RELIGST 544 count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 560 Introduction to Research Methods in Anthropology**

3 cr. Undergraduate/Graduate.

Problem and research design formulation. How to ask and answer scientific questions using methods and techniques common to all fields of anthropology.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 560G Introduction to Research Methods in Anthropology**

3 cr. Undergraduate/Graduate.

Problem and research design formulation. How to ask and answer scientific questions using methods and techniques common to all fields of anthropology.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 561 Techniques and Problems in Ethnography**

3 cr. Undergraduate/Graduate.

Methods of fieldwork for cultural anthropologists; design of field studies; techniques for collection and analysis of field data; field projects.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 561G Techniques and Problems in Ethnography**

3 cr. Undergraduate/Graduate.

Methods of fieldwork for cultural anthropologists; design of field studies; techniques for collection and analysis of field data; field projects.

**Prerequisites:** jr st; Anthro 102(R).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 562 Techniques and Problems in Archaeology**

3 cr. Undergraduate/Graduate.

Methods of fieldwork in archaeology; strategies of archaeological investigations; introduction to archaeological site mapping Lec, lab.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 562G Techniques and Problems in Archaeology**

3 cr. Undergraduate/Graduate.

Methods of fieldwork in archaeology; strategies of archaeological investigations; introduction to archaeological site mapping Lec, lab.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 565 Seminar in Regional Archaeology.**

3 cr. Undergraduate/Graduate.

Seminar in archaeology of specific geographic areas. Consult Schedule of Classes for specific semester's content.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 565G Seminar in Regional Archaeology:**

3 cr. Undergraduate/Graduate.

Seminar in archaeology of specific geographic areas. Consult Schedule of Classes for specific semester's content.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 566 Archaeological Analysis and Report Preparation:**

3-6 cr. Undergraduate/Graduate.

Students will organize, describe, analyze, and interpret actual archaeological materials. Each student will assist in writing an archaeological report. Fee assessed according to nature and location of field trips.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 566G Archaeological Analysis and Report Preparation:**

3-6 cr. Undergraduate/Graduate.

Students will organize, describe, analyze, and interpret actual archaeological materials. Each student will assist in writing an archaeological report. Fee assessed according to nature and location of field trips.

**Prerequisites:** jr st; Anthro 103(P) or cons instr.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 567 Archaeological Field School**

3-6 cr. Undergraduate/Graduate.

Archaeological methods and techniques under field conditions, at one or more sites. Field work five days a week, evening lectures. Fee assessed according to nature and location of field school.

**Prerequisites:** jr st; cons instr.**Course Rules:** May be retaken to 9 cr max.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 567G Archaeological Field School**

3-6 cr. Undergraduate/Graduate.

Archaeological methods and techniques under field conditions, at one or more sites. Field work five days a week, evening lectures. Fee assessed according to nature and location of field school.

**Prerequisites:** jr st; cons instr.**Course Rules:** May be retaken to 9 cr max.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 568 Introduction to Anthropological Statistics**

3 cr. Undergraduate/Graduate.

Statistical models and their basic assumptions; statistical inference in biological and cultural anthropology; probability theory; nonparametric and parametric methods.

**Prerequisites:** jr st; Anthro 101(P) or 102(P) or 103(P) or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 568G Introduction to Anthropological Statistics**

3 cr. Undergraduate/Graduate.

Statistical models and their basic assumptions; statistical inference in biological and cultural anthropology; probability theory; nonparametric and parametric methods.

**Prerequisites:** jr st; Anthro 101(P) or 102(P) or 103(P) or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 570 Issues in Bilingualism**

3 cr. Undergraduate/Graduate.

Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints.

**Prerequisites:** jr st.**Course Rules:** Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 570G Issues in Bilingualism**

3 cr. Undergraduate/Graduate.

Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints.

**Prerequisites:** jr st.**Course Rules:** Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 585 Internship in Forensic Toxicology**

1-3 cr. Undergraduate.

Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.**Course Rules:** Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2014, Summer 2009, Spring 2008, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 589 Internship in Death Investigation**

1-3 cr. Undergraduate.

Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.

**Prerequisites:** jr st; admis to Forensic Sci certif prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver.**Course Rules:** Anthro 589, Chem 589, BMS(C L Sci) 589, & Crm Jst 589 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2023, Spring 2022, Fall 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 594 Internship in Forensic Science**

1-3 cr. Undergraduate.

On-site shadowing of evidence analyst at State Crime Laboratory.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

**Course Rules:** Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2022, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 620 Museum Fundamentals**

3 cr. Undergraduate/Graduate.

Fundamentals of museum management, including administration and leadership, programming and exhibits, and collections management.

**Prerequisites:** consent of instructor.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 620G Museum Fundamentals**

3 cr. Undergraduate/Graduate.

Fundamentals of museum management, including administration and leadership, programming and exhibits, and collections management.

**Prerequisites:** consent of instructor.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 621 Internship in Museum Studies**

3 cr. Undergraduate/Graduate.

Supervised practical experience in museums arranged on an individual basis.

**Prerequisites:** junior standing and ANTHRO 620(P) or consent of instructor.

**Course Rules:** Retakeable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 621G Internship in Museum Studies**

3 cr. Undergraduate/Graduate.

Supervised practical experience in museums arranged on an individual basis.

**Prerequisites:** junior standing and ANTHRO 620(P) or consent of instructor.

**Course Rules:** Retakeable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 641 Seminar in Anthropology:**

3 cr. Undergraduate/Graduate.

A research seminar in any of the several recognized areas of anthropology.

**Prerequisites:** junior standing and ANTHRO 101(P), ANTHRO 102(P), or ANTHRO 103(P); or graduate standing.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 641G Seminar in Anthropology:**

3 cr. Undergraduate/Graduate.

A research seminar in any of the several recognized areas of anthropology.

**Prerequisites:** junior standing and ANTHRO 101(P), ANTHRO 102(P), or ANTHRO 103(P); or graduate standing.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 649 Ethnography of Institutions**

3 cr. Undergraduate/Graduate.

Method, practice, and theory of institutional ethnography. Counts as a repeat of Anthro 641 with the same topic.

**Prerequisites:** jr st.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 649G Ethnography of Institutions**

3 cr. Undergraduate/Graduate.

Method, practice, and theory of institutional ethnography. Counts as a repeat of Anthro 641 with the same topic.

**Prerequisites:** jr st.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 699 Independent Work**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of an Anthro faculty or instructional academic staff member. Students must submit a study proposal. For further information, consult dept undergrad prog coord.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2022, Summer 2022, UWinteriM 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 705 Advanced Topics in Ethnography:**

3 cr. Graduate.

Critical examination of peoples and cultures of selected areas of the world.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2020, Spring 2018, Summer 2006, Summer 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 720 History and Theory of Museums**

2 cr. Graduate.

History of the museum idea and its contemporary forms; educational, scientific, and changing uses of museums; museums and other institutions; museum professionalism and ethics.

**Prerequisites:** graduate standing and consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 721 Administration and Organization of Museums**

3 cr. Graduate.

Administration and organizational problems in modern museums; finances and budgets; legal-administrative problems; relations with support groups and volunteers, record keeping, management of museum projects.

**Prerequisites:** grad st; cons instr; grade of B or better in Anthro 620(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 722 Visitor Experience Design in Museums**

3 cr. Graduate.

Development and design of the museum visitor experience with a holistic approach including exhibitions, programs, and experience design.

**Prerequisites:** grad st; cons instr; grade B or better in Anthro 721(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 723 Museum Collections Management and Curation**

3 cr. Graduate.

Practicum in the collection, organization, storage, care and scientific use of museum collections. Projects available in various specialties, dependent upon interest and special faculty arrangements.

**Prerequisites:** grad st; cons instr; grade B or better in Anthro 721(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 724 Internship in Museum Studies**

3 cr. Graduate.

Supervised practical experience in museums arranged on an individual basis.

**Prerequisites:** grad st; Anthro 720(P); cons instr.**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 725 Professionalism Capstone in Museum Studies**

1 cr. Graduate.

Program capstone course, topics include: professional development/networking, resumé/cv and portfolio development, and job search strategies.

**Prerequisites:** grad st; cons instr; Anthro 722(C).**Last Taught:** Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 744 Theories of Social Action: Theater, Ritual, Game**

3 cr. Graduate.

Seminar on theories of social action. Approaching social life as, variously, theater, ritual, performance, and game.

**Prerequisites:** graduate standing.**Last Taught:** Spring 2021, Fall 2019, Fall 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 756 Human / Animal Entanglements**

3 cr. Graduate.

Explores what has come to be known as 'the animal turn' and 'the ontological turn' - the increasing scholarly interest in the relationships between humans and other animals cross-culturally.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 762 Advanced Archaeological Analysis:**

3 cr. Graduate.

Study and practice in major phases of archaeological analysis.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2014, Summer 2011, Spring 2009, Fall 1990.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 763 Professionalism in Anthropology**

3 cr. Graduate.

Skills needed to work in academia or an applied field; relevant to any of the four sub-fields or anthropology (archaeology, cultural, biological, or linguistic).

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 768 Topics in Advanced Research Design in Anthropology**

3 cr. Graduate.

Methods of fitting various models to qualitative categorizations of archaeological, ethnographical, and biological data. Includes chi-square and multiclassificatory chi-squares, scaling, cluster analysis, markov chains, and game theory.

**Prerequisites:** grad st; Anthro 568(R).**Last Taught:** Fall 2015, Fall 2013, Fall 2010, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 797 Study Abroad:**

1-6 cr. Graduate.

Allows graduate students to enroll in UWM sponsored program before course work level, content, and credits are determined and/or in specifically-prepared program course work.

**Prerequisites:** grad st; acceptance in Study Abroad Prog.**Course Rules:** Retakable w/ chg in topic.**Last Taught:** Summer 2016, Summer 2015, Summer 2014, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 801 A Survey of Physical Anthropology**

3 cr. Graduate.

Reviews biological principles essential to an understanding of evolution. Reviews fields central to physical anthropology and human evolution: primatology, paleontology, anatomy, human genetics, population genetics.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 802 Perspectives on Prehistory**

3 cr. Graduate.

Surveys current theoretical and methodological concepts in archaeology, and their application to specific research problems. Readings include studies from both the old and new worlds.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 803 Survey of Cultural Anthropology**

3 cr. Graduate.

A survey of major theoretical and methodological issues central to cultural anthropology.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ANTHRO 804 Linguistic Anthropology**

3 cr. Graduate.

A survey of major theoretical and methodological issues central to cultural anthropology.

**Prerequisites:** grad st.**Last Taught:** Fall 2019, Spring 2012, Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 840 Digital Anthropology: Code, Architecture, Process**

3 cr. Graduate.

Introduces students from anthropology and related fields to anthropological approaches to digitally-mediated social action.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of ANTHRO 940 with topic 'Anthropology and the Digital.' ANTHRO 840 and DAC 840 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 844 Social Theories of Modernity**

3 cr. Graduate.

Examination of classic works of modern social theory, thereby introducing students, through focused readings and extensive class discussion, to the leading thinkers whose legacy continues to shape the social sciences.

**Prerequisites:** graduate standing or consent of instructor.**Course Rules:** Counts as a repeat of ANTHRO 705 with the same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Summer 2021, Spring 2020, Fall 2019, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 889 Internship in Anthropology**

1-6 cr. Graduate.

Application of advanced principles of anthropology in a business, non-profit, healthcare, educational, governmental, or other appropriate setting. Intern's contract specifies duties and duration.

**Prerequisites:** graduate standing, and written consent of instructor and department chair.**Course Rules:** Retakable to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 920 Advanced Seminar in Museological Problems**

3 cr. Graduate.

Use of museum collections/museums to examine museum work regarding legal considerations, ethics, documentation; use of collections to test theories and develop conceptual exhibits.

**Prerequisites:** grad st; Anthro 720(P).**Last Taught:** Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 940 Seminar in Problems in Cultural Anthropology:**

3 cr. Graduate.

Content varies.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 942 Seminar in Prehistory and Archaeology:**

3 cr. Graduate.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 969 Seminar in Linguistic Anthropology:**

3 cr. Graduate.

Advanced topics in the anthropological study of language.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 990 Research and Thesis**

1-3 cr. Graduate.

**Prerequisites:** grad st; writ cons instr; writ cons dept chair.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ANTHRO 999 Advanced Independent Study**

1-3 cr. Graduate.

**Prerequisites:** grad st; writ cons instr.**Course Rules:** Retakable to 6 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Applied Computing (APC)

**APC 300 Programming 1**

3 cr. Undergraduate.

Introduction to history of computing, fundamental computer concepts and structured programming techniques.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 310 Math for Computer Science**

3 cr. Undergraduate.

Important foundational topics in computer science.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 320 Introduction to Business**

3 cr. Undergraduate.

Introduction to the major functional areas of business including the roles of accounting, finance, human resources, marketing, information systems, and operations in the organization.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**APC 330 Technical and Professional Communication**

3 cr. Undergraduate.

Technical and professional communication skills and techniques. Practice in creating effective memos and reports, developing technical material, delivering presentations, and developing communication within teams.

**Prerequisites:** none.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 340 Legal and Ethical Responsibilities of the IT Professional**

3 cr. Undergraduate.

Legal, regulatory, ethical and compliance issues associated with developing software and using information systems in an organization.

**Prerequisites:** admis to the Applied Computing program.**Last Taught:** Summer 2023, Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 350 Programming 2**

3 cr. Undergraduate.

Continuation of fundamental computer concepts and Programming.

**Prerequisites:** APC 300(P); 310(P).**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 360 Database Management 1**

3 cr. Undergraduate.

Design and implementation of relational database management systems to support computer-based information systems.

**Prerequisites:** admis to the Applied Computing program and APC 300(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 370 System Analysis and Design**

3 cr. Undergraduate.

The five phases of Systems Development Life Cycle: scope definition, problem analysis, requirements analysis, logical design and decision analysis.

**Prerequisites:** admis to BS-APC prog; APC 300(P); 320(P); 330(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 380 Project Management Techniques**

3 cr. Undergraduate.

An introduction to project management techniques including project selection and life cycle, stakeholder/scopequality/procurement management, budget control, scheduling, risk identification.

**Prerequisites:** admis to BS-APC prog; APC 300(P); APC 320(P); APC 330(P).**Last Taught:** Spring 2023, Summer 2022, Spring 2022, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 390 Object Oriented Programming**

3 cr. Undergraduate.

An introduction to Object-Oriented Programming techniques using the Java programming language.

**Prerequisites:** APC 350(P)**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 400 Applied Communication Networks**

3 cr. Undergraduate.

Fundamental concepts in the design, configuration, and problem solving of computer networks.

**Prerequisites:** admis to BS-APC prog; APC 350(P).**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 410 Database Management 2**

3 cr. Undergraduate.

Architecture and use-cases of non-relational (NoSQL) based on four types of databases including document, Graph, Key-value, and wide column store.

**Prerequisites:** admis to BS-APC prog; APC 360(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 420 Computer Security 1**

3 cr. Undergraduate.

Security and risk management, security engineering, identity and access management, and security operations.

**Prerequisites:** APC 350(P).**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 430 Applied Data Structures and Algorithms**

3 cr. Undergraduate.

Concepts and the application of data structures and algorithms.

**Prerequisites:** APC 390(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 440 Web Development**

3 cr. Undergraduate.

Creating advanced and interactive websites web sites using technologies like HTML 5, CSS, JavaScript, Bootstrap, XML, web services, and database integration within the ASP.Net platform.

**Prerequisites:** APC 360(P).**Last Taught:** Summer 2023, Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 450 Operating Systems Theory and Practice**

3 cr. Undergraduate.

An introduction to important operating systems concepts such as processes, threads, scheduling, concurrency control and memory management.

**Prerequisites:** admis to BS-APC prog; APC 430(C).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 460 Software Engineering**

3 cr. Undergraduate.

Basic software development methodologies and tools, including the waterfall, iterative, and agile approaches.

**Prerequisites:** APC 370(P); 390(P).**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**APC 470 IS Strategy and Management**

3 cr. Undergraduate.

Organizational/IS strategy using a capability maturity model for topics such as budgeting, acquisition, service/change/personnel management.

**Prerequisites:** admis to the Applied Computing program and APC 380(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 480 Computer Security 2**

3 cr. Undergraduate.

Communication and network security, security assessment and testing, software development security, and asset security.

**Prerequisites:** APC 360(P); 400(P); 420(P); 450(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 490 Capstone Project Preparation**

1 cr. Undergraduate.

Student capstone project and creation of initial plan with specific deliverables identified.

**Prerequisites:** admis to the Applied Computing program, APC 380(P), and APC 460(C).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**APC 495 Capstone Project**

3 cr. Undergraduate.

Development, management and delivery of an applied computer science project for a client, including communication of project requirements and status to a non-technical audience.

**Prerequisites:** admis to BS-APC prog; APC 490(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Arabic (ARABIC)

**ARABIC 101 First Semester Arabic**

5 cr. Undergraduate.

For students with no previous knowledge of Arabic. Emphasis on one standard dialect. Language laboratory required.

**Prerequisites:** none.**Course Rules:** Open to native speakers of Arabic only w/cons instr.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARABIC 102 Second Semester Arabic**

5 cr. Undergraduate.

Elements of reading and writing contemporary literary Arabic.

**Prerequisites:** Arabic 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro crs).**Course Rules:** Open to native speakers of Arabic only w/cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARABIC 111 Cultures and Civilizations of the Muslim Middle East**

3 cr. Undergraduate.

Muslim Middle East through historical and ethnographic materials; reading of Quran and some modern literature.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARABIC 164 Arabs and Islam in America**

3 cr. Undergraduate.

History of Arab immigration, experience of Arabs, and nature of Islam and Islamic communities in America.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2022, Fall 2020, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARABIC 197 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARABIC 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Fall 2006, Spring 2006, Fall 2005, Fall 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARABIC 201 Third Semester Arabic**

5 cr. Undergraduate.

Continuation of 102. Further practice in the standard language. Study of weak verbs and quadrilateral verbs. Relative and conditional sentences.

**Prerequisites:** Arabic 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro crs).**Course Rules:** Open to native speakers of Arabic only w/cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARABIC 202 Fourth Semester Arabic**

5 cr. Undergraduate.

Continuation of 201. Noun forms. Use of cases. Particles and prepositions. Introduction to Arabic verse.

**Prerequisites:** Arabic 201(P). Generates L&S credit for demonstrated equivalent preparation (12 retro crs).**Course Rules:** Open to native speakers of Arabic only w/cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARABIC 289 Internship in Arabic, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Arabic in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Arabic; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Spring 2018, Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2010, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 301 Fifth Semester Arabic**

3 cr. Undergraduate.

Continuation of Arabic 202. Root and pattern systems; complex sentence structure; continued development of conversation and writing skills; strategies in reading culturally-oriented texts.

**Prerequisites:** Arabic 202(P).

**Course Rules:** Open to native speakers of Arabic only w/cons instr.

Generates L&S credit for demonstrated equivalent preparation (16 retro crs).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 302 Sixth Semester Arabic**

3 cr. Undergraduate.

Continuation of Arabic 301. More complex grammatical forms; vocabulary building principles; continued development of skills in conversation, reading, writing, culturally-oriented readings, and films.

**Prerequisites:** Arabic 301(P). Generates L&S credit for demonstrated equivalent preparation (16 retro crs).

**Course Rules:** Open to native speakers of Arabic only w/cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 390 Islam: Religion and Culture**

3 cr. Undergraduate.

Survey of the Islamic religion and its cultural manifestations.

**Prerequisites:** satisfaction of OWC-A.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 397 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/ change in topic.

**Last Taught:** Summer 2022, Fall 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 404 Introduction to Translation: Arabic to English**

3 cr. Undergraduate.

Translating a variety of texts from Arabic to English, including media articles, political texts, and literary and consumer-oriented texts.

Identifying and developing translation strategies.

**Prerequisites:** jr st; grade B or better in Arabic 302(P) or equiv, or cons instr.

**Last Taught:** Fall 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 489 Internship in Arabic, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of Arabic in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Arabic; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Summer 2023, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2021, Spring 2014, Spring 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 514 Advanced Translation: Arabic to English**

3 cr. Undergraduate.

Translating texts from Arabic to English, including media articles, political texts, literary and consumer-oriented texts. Identifying and developing translation strategies; proofreading and editing own work.

**Prerequisites:** Arabic 404(P) or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 597 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/ change in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 597G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/ change in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 697 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 697G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARABIC 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a faculty member.

For more information, consult dept chair.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2022, Spring 2021, Fall 2020, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Architecture (ARCH)

**ARCH 101 Introduction to Architecture**

3 cr. Undergraduate.

An introductory course intended to provide non-majors with a foundation in the basic concepts of architecture. Provides a general understanding of contemporary issues in architecture, architecture practice and the role architecture plays in the design.

**Prerequisites:** none.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 111 Design I**

3 cr. Undergraduate.

An introductory course about architecture and architectural making. 2D and 3D form and space tested through the theoretical, pragmatic, and contextual issues that influence architecture.

**Prerequisites:** none.

**Course Rules:** Previously ARCH 100.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 112 Design II**

3 cr. Undergraduate.

Survey and application of twentieth century design techniques in architecture.

**Prerequisites:** none.

**Course Rules:** Previously ARCH 103.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 140 Introduction to Architectural Careers**

1 cr. Undergraduate.

An overview of the School of Architecture and Urban Planning, the architecture and urban planning professions, academic requirements, and student resources.

**Prerequisites:** none.

**Course Rules:** Previously ARCH 110.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 151 History & Theory I**

3 cr. Undergraduate.

Broad overview of the histories and theories that have shaped the discipline of architecture: its histories, theories and methodologies.

**Prerequisites:** none.

**Course Rules:** Previously ARCH 102.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 152 History & Theory II**

3 cr. Undergraduate.

Canonical buildings since 1800 alongside their accompanying theoretical texts are evaluated within the discipline and allied fields of inquiry.

**Prerequisites:** none.

**Course Rules:** Previously ARCH 104.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 190 Living Learning Community:**

1-3 cr. Undergraduate.

Presentation of new material on experimental basis. Material appropriate for testing interest and ability in architecture.

**Prerequisites:** none.

**Course Rules:** May be retaken with change in topic to 9 cr max. Specific credits and additional prerequisites announced in the Schedule of Classes whenever course is offered.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 211 Design III**

6 cr. Undergraduate.

Formal concepts that order the production of architecture, using physical and virtual models, sketches, and drafted, scaled, orthographic drawings. Issues related to site, function and environment.

**Prerequisites:** ARCH 111(100)(P) and ARCH 112(103)(P).

**Course Rules:** Previously ARCH 310.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 212 Design IV**

6 cr. Undergraduate.

Architectural design as a synthetic discipline that considers material/spatial experience, contextual analysis, formal concepts, and social/cultural relationships. Material/graphic representation explored in models, drawings, collage and renderings.

**Prerequisites:** ARCH 211(310)(P).

**Course Rules:** Previously ARCH 320.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 271 Representation I**

3 cr. Undergraduate.

Development of precise standards of drawing and the history and techniques of descriptive and analytical drawing.

**Prerequisites:** ARCH 111(100)(P) and ARCH 112(103)(P).

**Course Rules:** Previously ARCH 282.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 272 Representation II**

3 cr. Undergraduate.

Exploration of the potential for representation to communicate generative, atmospheric, and presentational qualities.

**Prerequisites:** ARCH 271(282)(P).

**Course Rules:** Previously ARCH 283.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 311 Design V**

6 cr. Undergraduate.

Design projects explore basic issues: clients' needs; site planning; masonry, wood, and steel construction; health and safety. Composition employs analysis of precedent.

**Prerequisites:** ARCH 212(320)(P).

**Course Rules:** Previously ARCH 410.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 312 Design VI**

6 cr. Undergraduate.

Design projects explore complex contexts and programs. Solutions employ hybrid construction technologies, and codes for safety and accessibility; they also integrate interior and exterior spaces.

**Prerequisites:** ARCH 311(410)(P).

**Course Rules:** Previously ARCH 420.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 321 Building Technology I**

3 cr. Undergraduate.

The behavior of structures, structural materials and planning, and the principles and performance of building envelope systems.

**Prerequisites:** junior standing.

**Course Rules:** Previously ARCH 301.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 322 Building Technology II**

3 cr. Undergraduate.

Investigation of environmental control and life safety requirements and their implications on architectural form and design.

**Prerequisites:** ARCH 321(301)(P).

**Course Rules:** Previously ARCH 303.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 326 Energy Design Fundamentals**

3 cr. Undergraduate/Graduate.

Energy-related issues as they apply to site planning and architectural design, including thermal comfort, site climate analysis, building thermal response, and solar system design.

**Prerequisites:** jr st.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 326G Energy Design Fundamentals**

3 cr. Undergraduate/Graduate.

Energy-related issues as they apply to site planning and architectural design, including thermal comfort, site climate analysis, building thermal response, and solar system design.

**Prerequisites:** jr st.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 340 Urban Design**

3 cr. Undergraduate/Graduate.

Survey of urban design, including the study of precedents, recent philosophy, design vocabulary, behavioral responses, and implementation strategies.

**Prerequisites:** jr st; acceptance to Level 2 or arch studies minor & Arch 300(P); or grad st.

**Last Taught:** Fall 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 340G Urban Design**

3 cr. Undergraduate/Graduate.

Survey of urban design, including the study of precedents, recent philosophy, design vocabulary, behavioral responses, and implementation strategies.

**Prerequisites:** jr st; acceptance to Level 2 or arch studies minor & Arch 300(P); or grad st.

**Last Taught:** Fall 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 341 Professional Practice I**

3 cr. Undergraduate.

Review and analysis of building code and programming requirements in relation to building project goals, user requirements, socio-cultural determinants, design criteria, site selection and analysis, building type analysis, and cost projections.

**Prerequisites:** junior standing.

**Course Rules:** Previously ARCH 586.

**Last Taught:** Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 342 Professional Practice II**

3 cr. Undergraduate/Graduate.

Principles of the professional production of architectural documents covering and the interface and workflow of Building Information Modeling software.

**Prerequisites:** senior standing or architecture studies minor.

**Course Rules:** Previously ARCH 382.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 343 Professional Practice III**

3 cr. Undergraduate.

An introduction to architectural practice; content includes office procedures, contract management, legal constraints.

**Prerequisites:** senior standing or architecture studies minor.

**Course Rules:** Previously ARCH 581/581G.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 350 Greening Milwaukee**

3 cr. Undergraduate.

City wide environmental organizations are organized into lecture series on the state of sustainable issues. Thirty hours of service are required.

**Prerequisites:** soph st.

**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 351 Survey of Architectural History & Theory**

3 cr. Undergraduate.

Introduction to architectural history and its theoretical base. The course covers classical architecture to the present, focusing on the theories underlying architecture of a period.

**Prerequisites:** ARCH 151(102)(P) and ARCH 152(104)(P); or architecture studies minor.

**Course Rules:** Previously ARCH 300.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 352 History & Theory III**

3 cr. Undergraduate.

Introduction to behavioral, social and cultural factors and their implications for the design and planning of the built environment.

**Prerequisites:** ARCH 151(102)(P) and ARCH 152(104)(P); or architecture studies minor.

**Course Rules:** Previously ARCH 302.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 353 History & Theory IV**

3 cr. Undergraduate.

Disciplinary methods and themes through rigorous readings of texts and objects concerning contemporary architectural criticism, and histories and theories of urban form and urban planning.

**Prerequisites:** junior standing and completion of OWC-A and ARCH 151(102)(P) and ARCH 152(104)(P).

**Course Rules:** Previously ARCH 304.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 380 Drawing in Architecture**

3 cr. Undergraduate/Graduate.

Visual communication skills are developed in relation to basic design theory and architectural design process.

**Prerequisites:** jr st & acceptance to level 2 or arch studies minor; or grad st.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 380G Drawing in Architecture**

3 cr. Undergraduate/Graduate.

Visual communication skills are developed in relation to basic design theory and architectural design process.

**Prerequisites:** jr st & acceptance to level 2 or arch studies minor; or grad st.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 383 Landscape Architecture**

3 cr. Undergraduate/Graduate.

Introduction to the history of landscape architecture as well as the process of contemporary landscape architecture and its relationship to contemporary architecture.

**Prerequisites:** jr st & acceptance to level 2 or arch studies minor; or grad st.

**Last Taught:** Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 383G Landscape Architecture**

3 cr. Undergraduate/Graduate.

Introduction to the history of landscape architecture as well as the process of contemporary landscape architecture and its relationship to contemporary architecture.

**Prerequisites:** jr st & acceptance to level 2 or arch studies minor; or grad st.

**Last Taught:** Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 391 Directed Research**

3 cr. Undergraduate.

Student participation in research projects under faculty supervision.

**Prerequisites:** jr st; acceptance to Level 2 or arch studies minor & cons instr.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 392 Independent Studies**

3 cr. Undergraduate.

Independent investigation of issues related to architecture.

**Prerequisites:** jr st; acceptance to Level 2 or arch studies minor & cons instr.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, UWinteriM 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 411 Design VII**

6 cr. Undergraduate.

Design projects explore complex contexts and programs related to living collectively.

**Prerequisites:** ARCH 312(420)(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 412 Design VIII:**

6 cr. Undergraduate.

Advanced design studio emphasizing schematic design to detailed development of programmatic spaces, structural and environmental systems, life-safety provisions, wall sections, and building materials and assemblies.

**Prerequisites:** senior standing.

**Course Rules:** Retakeable with change in topic to 12 cr max. Counts as a repeat of ARCH 825.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 421 Building Technology III**

3 cr. Undergraduate.

Statics, strength of materials and analysis of simple structural elements and systems. Design and economics of simple building structures.

**Prerequisites:** senior standing and ARCH 322(303)(P).

**Course Rules:** Previously ARCH 510.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 422 Building Technology IV**

3 cr. Undergraduate.

Review and analysis of architectural construction systems in relation to building projects of various scales. Construction techniques and contract documentation are covered.

**Prerequisites:** senior standing and ARCH 421(301)(P).

**Course Rules:** Previously ARCH 516.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 423 Building Technology V**

3 cr. Undergraduate/Graduate.

The impact of visual and thermal comfort requirements on the design of building enclosures, lighting systems and HVAC systems.

**Prerequisites:** senior standing and ARCH 422(516)(P).

**Course Rules:** Previously ARCH 520.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 497 Study Abroad:**

3-12 cr. Undergraduate.

Studio and/or field study designed to provide relevant course work for a study abroad program in architecture.

**Prerequisites:** acceptance to Level 2 or architecture studies minor and accepted for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Summer 2023, Summer 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 521 Environmental Systems: Resources-Fluid Distribution Systems**

3 cr. Undergraduate/Graduate.

Water resources supplies and treatment, distribution and disposal systems. Atmospheric and thermal comfort. Air treatment, distribution systems, and related energy systems for human comfort.

**Prerequisites:** sr st & Arch 303(P); or grad st.

**Last Taught:** Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 521G Environmental Systems: Resources-Fluid Distribution Systems**

3 cr. Undergraduate/Graduate.

Water resources supplies and treatment, distribution and disposal systems. Atmospheric and thermal comfort. Air treatment, distribution systems, and related energy systems for human comfort.

**Prerequisites:** sr st & Arch 303(P); or grad st.

**Last Taught:** Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 522 Environmental Systems: Lighting and Acoustical Design**

3 cr. Undergraduate/Graduate.

The development and application of visual/auditory comfort criteria, lighting and acoustical design, and their architectural design implications.

**Prerequisites:** sr st & Arch 303(P); or grad st.

**Last Taught:** Fall 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 522G Environmental Systems: Lighting and Acoustical Design**

3 cr. Undergraduate/Graduate.

The development and application of visual/auditory comfort criteria, lighting and acoustical design, and their architectural design implications.

**Prerequisites:** sr st & Arch 303(P); or grad st.

**Last Taught:** Fall 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 534 Field Study:**

3 cr. Undergraduate/Graduate.

Theoretical developments and their historical contexts are explored in a particular setting. Focus and setting are announced in advance.

**Prerequisites:** jr st; Arch 300(P).

**Course Rules:** May be retaken w/chg in topic to max of 6 cr.

**Last Taught:** Summer 2017, Summer 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 534G Field Study:**

3 cr. Undergraduate/Graduate.

Theoretical developments and their historical contexts are explored in a particular setting. Focus and setting are announced in advance.

**Prerequisites:** jr st; Arch 300(P).

**Course Rules:** May be retaken w/chg in topic to max of 6 cr.

**Last Taught:** Summer 2017, Summer 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 550 Seminar in Building Types and Settings**

3 cr. Undergraduate/Graduate.

Development and usage of various building types and settings based upon social, behavioral, political, and economic factors.

**Prerequisites:** sr st, & Arch 300(P) or 302(P), or cons instr.

**Last Taught:** Spring 2019, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 550G Seminar in Building Types and Settings**

3 cr. Undergraduate/Graduate.

Development and usage of various building types and settings based upon social, behavioral, political, and economic factors.

**Prerequisites:** sr st, & Arch 300(P) or 302(P), or cons instr.

**Last Taught:** Spring 2019, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 551 American Vernacular Architecture**

3 cr. Undergraduate/Graduate.

Introductory seminar on the historical development of all forms of vernacular and popular architecture. Buildings are analyzed in detail within their cultural contexts.

**Prerequisites:** sr st & Arch 300(P); or grad st.**Last Taught:** Summer 2016, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 551G American Vernacular Architecture**

3 cr. Undergraduate/Graduate.

Introductory seminar on the historical development of all forms of vernacular and popular architecture. Buildings are analyzed in detail within their cultural contexts.

**Prerequisites:** sr st & Arch 300(P); or grad st.**Last Taught:** Summer 2016, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 553 Vernacular Buildings and Groupings**

3 cr. Undergraduate/Graduate.

Study of the patterns and characteristics of human settlements and individual structures built according to local traditions.

**Prerequisites:** sr st & Arch 302(P); or grad st.**Last Taught:** Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 553G Vernacular Buildings and Groupings**

3 cr. Undergraduate/Graduate.

Study of the patterns and characteristics of human settlements and individual structures built according to local traditions.

**Prerequisites:** sr st & Arch 302(P); or grad st.**Last Taught:** Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 560 Introduction to Historic Preservation**

3 cr. Undergraduate/Graduate.

Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.

**Prerequisites:** senior standing and acceptance to level 2; or graduate standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 560G Introduction to Historic Preservation**

3 cr. Undergraduate/Graduate.

Research, discussion and case study development to explore political, social/historical, economic and design/restoration issues of preservation and adaptive use of buildings.

**Prerequisites:** senior standing and acceptance to level 2; or graduate standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 561 Measured Drawing for Architects**

3 cr. Undergraduate/Graduate.

History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.

**Prerequisites:** sr st & Arch 301(P); or grad st.**Last Taught:** Summer 2019, Summer 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 561G Measured Drawing for Architects**

3 cr. Undergraduate/Graduate.

History and theory of measured drawings, field measuring and recording techniques, and production of drawings based on procedures of the Historic American Building Survey.

**Prerequisites:** sr st & Arch 301(P); or grad st.**Last Taught:** Summer 2019, Summer 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 562 Preservation Technology Laboratory**

3 cr. Undergraduate/Graduate.

Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail.

**Prerequisites:** sr st & Arch 301(P); or grad st.**Last Taught:** Summer 2017, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 562G Preservation Technology Laboratory**

3 cr. Undergraduate/Graduate.

Laboratory focusing on the historic preservation of architectural detail. Students will examine historic technologies, write papers on them, and execute them in detail.

**Prerequisites:** sr st & Arch 301(P); or grad st.**Last Taught:** Summer 2017, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 580 Graphic Techniques for Architects**

3 cr. Undergraduate/Graduate.

Architectural presentation techniques focusing on the application of various graphic media including color pencil, pastel, watercolor, marker, and air-brush.

**Prerequisites:** sr st & acceptance to level 2; or grad st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 580G Graphic Techniques for Architects**

3 cr. Undergraduate/Graduate.

Architectural presentation techniques focusing on the application of various graphic media including color pencil, pastel, watercolor, marker, and air-brush.

**Prerequisites:** sr st & acceptance to level 2; or grad st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 583 Emerging Digital Technology:**

3 cr. Undergraduate/Graduate.

Laboratory focusing on the theory and application of emerging digital tools to contemporary problems of architectural design and professional practice. Proficiency in MicroStation, Rhino, formZ, or SketchUp required.

**Prerequisites:** junior standing and acceptance to Level 2 or arch studies minor; or graduate standing.**Course Rules:** May be retaken with change in topic to a max of 9 cr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 583G Emerging Digital Technology:**

3 cr. Undergraduate/Graduate.

Laboratory focusing on the theory and application of emerging digital tools to contemporary problems of architectural design and professional practice. Proficiency in MicroStation, Rhino, formZ, or SketchUp required.

**Prerequisites:** junior standing and acceptance to Level 2 or arch studies minor; or graduate standing.

**Course Rules:** May be retaken with change in topic to a max of 9 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 584 Urban Landscape Architecture**

3 cr. Undergraduate/Graduate.

Study of historic and contemporary exterior urban space, urban site planning methodology; design and detailing of exterior urban space; pedestrian and vehicular movement; use of plant materials.

**Prerequisites:** sr st & acceptance to level 2 or arch studies minor; or grad st.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 584G Urban Landscape Architecture**

3 cr. Undergraduate/Graduate.

Study of historic and contemporary exterior urban space, urban site planning methodology; design and detailing of exterior urban space; pedestrian and vehicular movement; use of plant materials.

**Prerequisites:** sr st & acceptance to level 2 or arch studies minor; or grad st.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 587 Post-Occupancy Evaluation of Built Environments**

3 cr. Undergraduate/Graduate.

Evaluation of built environments: technical, functional, and socio-behavioral factors; design of post-occupancy evaluation studies and instruments; and analysis of a built environment.

**Prerequisites:** sr st & Arch 302(P); or grad st.

**Last Taught:** Fall 2011, Fall 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 587G Post-Occupancy Evaluation of Built Environments**

3 cr. Undergraduate/Graduate.

Evaluation of built environments: technical, functional, and socio-behavioral factors; design of post-occupancy evaluation studies and instruments; and analysis of a built environment.

**Prerequisites:** sr st & Arch 302(P); or grad st.

**Last Taught:** Fall 2011, Fall 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 600 Design Elective:**

6 cr. Undergraduate.

Intermediate concepts and methods of architectural design relevant to contemporary theory and practice.

**Prerequisites:** ARCH 312(420)(P).

**Course Rules:** Previously ARCH 650. May be retaken with change in topic to max of 12 cr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 601 Special Topics:**

1-3 cr. Undergraduate.

Provides a format for the development and presentation of new material.

**Prerequisites:** junior standing or architecture studies minor.

**Course Rules:** Previously ARCH 390. May be retaken with change in topic to max of 12 cr. Specific credits and any additional prerequisites announced in the Schedule of Classes whenever course is offered.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 660 Topics in Architectural History & Theory:**

3 cr. Undergraduate.

This variable content course will focus on the study of a particular architectural theory or the work of an individual architect and its theoretical base.

**Prerequisites:** sophomore standing.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

Previously ARCH 533.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 685 Advanced Research Methods in Architecture**

3 cr. Undergraduate.

Review of various data collection and analysis methods used in architectural research and design; exploration of the epistemological foundations of our knowledge about the built environment.

**Prerequisites:** senior standing.

**Course Rules:** Previously ARCH 585.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 711 Graduate Design I**

6 cr. Graduate.

This design studio introduces students to theories and methodologies of architectural design. Design projects explore various design procedures, graphic techniques, and building tectonics.

**Prerequisites:** graduate standing.

**Course Rules:** Previously ARCH 810.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 712 Graduate Design II**

6 cr. Graduate.

Design studio further develops the theories and methodologies of architectural design. Design projects emphasize specific issues of theory, structure, context, program, and graphic communication.

**Prerequisites:** graduate standing and ARCH 711(810)(P).

**Course Rules:** Previously ARCH 820.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 716 Art of Detailing**

3 cr. Graduate.

Seminar/workshop dealing with creative aspects of architectural construction technology. Building details are analyzed with respect to technical appropriateness, durability, context and design consequences.

**Prerequisites:** grad st; Arch 516(P) & 1 600 or above level studio; Arch 501(R) or 510(R).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ARCH 718 Topics in Professional Practice**

3 cr. Graduate.

Examines, critically appraises, and imagines expanded options for career development and professional practice in architecture and design.

**Prerequisites:** graduate standing or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 721 Building Technology I**

3 cr. Graduate.

The behavior of structures, structural materials and planning, and the principles and performance of building envelope systems.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of ARCH 301G.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 722 Building Technology II**

3 cr. Graduate.

Study of the relationships between architectural design, illumination, visual tasks, energy conservation and daylighting design.

**Prerequisites:** graduate standing and ARCH 721(301G)(P).**Course Rules:** Previously ARCH 303G.**Last Taught:** Spring 2012, Spring 1995.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 723 Fundamentals of Ecological Architecture**

3 cr. Graduate.

Investigation of the ecological issues affecting an architectural design process that aims to produce buildings, landscapes and cities with minimal demands on the environment.

**Prerequisites:** grad st. Counts as repeat of ARCH 790 with same title.**Last Taught:** Fall 2023, Fall 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 741 Professional Practice I**

3 cr. Graduate.

Review and analysis of building code and programming requirements in relation to building project goals, user requirements, socio-cultural determinants, design criteria, site selection and analysis, building type analysis, and cost projections.

**Prerequisites:** graduate standing.**Course Rules:** Previously ARCH 586G.**Last Taught:** Spring 2000, Spring 1998, Spring 1996, Spring 1995.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 742 Professional Practice II**

3 cr. Graduate.

Principles of the professional production of architectural documents covering and the interface and workflow of Building Information Modeling software.

**Prerequisites:** graduate standing.**Course Rules:** Previously ARCH 382G.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 743 Professional Practice III**

3 cr. Graduate.

An introduction to architectural practice; content includes office procedures, contract management, legal constraints.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of ARCH 581G.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 749 Urban Design as Public Policy**

3 cr. Graduate.

Orients students in urban planning to urban design problems as matters of public policy with focus on the analysis and implementation of urban design proposals rather than on the techniques used to generate such proposals.

**Prerequisites:** grad st.**Course Rules:** Not open to students who have cr in UrbPlan 857 which is identical to Arch 749.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 750 Proseminar in Environment Design Research**

3 cr. Graduate.

Intensive review of important findings in environmental design from research and professional literature and analysis of impacts on the built environment.

**Prerequisites:** grad st; Arch 585(C), or cons instr.**Last Taught:** Fall 2019, Spring 2019, Fall 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 751 Survey of Architectural History & Theory**

3 cr. Graduate.

Introduction to architectural history and its theoretical base. The course covers classical architecture to the present, focusing on the theories underlying architecture of a period.

**Prerequisites:** graduate standing.**Course Rules:** Previously ARCH 300G.**Last Taught:** Spring 2019, Spring 2016, Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 752 History & Theory III**

3 cr. Graduate.

Introduction to behavioral, social and cultural factors and their implications for the design and planning of the built environment.

**Prerequisites:** graduate standing.**Course Rules:** Previously ARCH 302G.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 753 History & Theory IV**

3 cr. Graduate.

Disciplinary methods and themes through rigorous readings of texts and objects concerning contemporary architectural criticism, and histories and theories of urban form and urban planning.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of ARCH 304G.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 760 History of Building Technology**

3 cr. Graduate.

An examination of evolving technology in architecture from antiquity to the mid-twentieth century, concentrating on examples in the united states; includes field trips.

**Prerequisites:** graduate standing.**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 771 Representation I**

3 cr. Graduate.

Development of precise standards of drawing and the history and techniques of descriptive and analytical drawing.

**Prerequisites:** graduate standing.**Course Rules:** Previously ARCH 782.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 772 Representation II**

3 cr. Graduate.

Exploration of the potential for representation to communicate generative, atmospheric, and presentational qualities.

**Prerequisites:** graduate standing and ARCH 771(782)(P).**Course Rules:** Previously ARCH 783.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 780 The Built Environment and Real Estate Development**

3 cr. Graduate.

A course providing an understanding of the relationships between economics and architectural design and skills in manipulation of variables in both areas on real projects.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2019, Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 788 Green Building Seminar**

3 cr. Graduate.

Investigation and research into the environmental and architectural opportunities and constraints of building and landscape materials.

**Prerequisites:** grad st. Counts as repeat of ARCH 790 with same title.**Last Taught:** Fall 2022, Spring 2020, Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 791 Master's Level Directed Research**

1-3 cr. Graduate.

Student participation in research projects under faculty supervision.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable to 3 cr max.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 792 Master's Level Independent Studies and Research**

1-3 cr. Graduate.

Independent investigation of issues related to architecture.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable to 3 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 794 Pre-Thesis or Master's Project Research**

3 cr. Graduate.

Background preparation and research completed prior to master's thesis or project.

**Prerequisites:** grad st; eligibility for thesis or master's project next semester.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 797 Study Abroad:**

3-12 cr. Graduate.

Studio and/or field study designed to provide relevant course work for a study abroad program in architecture.

**Prerequisites:** grad st; acceptance to Study Abroad Program.**Course Rules:** Retakable to 12 cr max w/chg in topic.**Last Taught:** Summer 2023, Summer 2022, UWinteriM 2020, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 800 Design Elective:**

6 cr. Graduate.

Advanced concepts and methods of architectural design relevant to contemporary theory and practice.

**Prerequisites:** graduate standing.**Course Rules:** Retakeable with change in topic to max of 18 cr. Previously ARCH 850.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 801 Special Topics:**

1-3 cr. Graduate.

Development and presentation of new material on an experimental, one-term basis. Specific credits and any additional prerequisites announced in schedule of classes whenever course is offered.

**Prerequisites:** graduate standing.**Course Rules:** Retakeable with change in topic to max of 24 cr. Previously ARCH 790.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 812 Graduate Design III:**

6 cr. Graduate.

Advanced design studio emphasizing schematic design to detailed development of programmatic spaces, structural and environmental systems, life-safety provisions, wall sections, and building materials and assemblies.

**Prerequisites:** graduate standing.**Course Rules:** Retakeable with change in topic to 12 cr max. Previously ARCH 825.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 821 Building Technology III**

3 cr. Graduate.

Statics, strength of materials and analysis of simple structural elements and systems. Design and economics of simple building structures.

**Prerequisites:** graduate standing.**Course Rules:** Previously ARCH 510G.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 822 Building Technology IV**

3 cr. Graduate.

Review and analysis of architectural construction systems in relation to building projects of various scales. Construction techniques and contract documentation are covered.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of ARCH 516G.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARCH 823 Building Technology V**

3 cr. Graduate.

The impact of visual and thermal comfort requirements on the design of building enclosures, lighting systems and HVAC systems.

**Prerequisites:** graduate standing.**Course Rules:** Previously ARCH 520G.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 860 Topics in Architectural History & Theory:**

3 cr. Graduate.

This variable content course will focus on the study of a particular architectural theory or the work of an individual architect and its theoretical base.

**Prerequisites:** graduate standing.**Course Rules:** May be retaken with change in topic to max of 9 cr. Previously ARCH 533G.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirements.

**Prerequisites:** graduate standing**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 3 cr max. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 890 Master's Thesis**

6 cr. Graduate.

Production of a written thesis under the supervision of a faculty committee selected by student.

**Prerequisites:** grad st; cons advisor; cons chair if taken before final semester.**Last Taught:** Spring 2023, Spring 2017, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 891 Master's Project**

6 cr. Graduate.

Production of an independent design project under the supervision of a faculty committee selected by student.

**Prerequisites:** grad st; cons advisor; cons chair if taken before final semester.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 985 Advanced Research Methods in Architecture**

3 cr. Graduate.

Advanced treatment of existing and emerging qualitative and quantitative research and analysis methods, including research designs, scholarly, structural, field, survey, experimental and multivariate methods.

**Prerequisites:** graduate standing.**Course Rules:** Previously ARCH 585G and ARCH 785.**Last Taught:** Fall 2018, Spring 2016, Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 990 Doctoral Dissertation**

3-12 cr. Graduate.

Research toward the completion of the PhD dissertation under the direction of the candidate's dissertation chair and committee.

**Prerequisites:** grad st; admis to candidacy for the PhD; & cons PhD prog comm.**Course Rules:** May be retaken.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 991 Doctoral Level Research**

1-3 cr. Graduate.

Research work for doctoral students in Architecture.

**Prerequisites:** grad st; cons instr**Course Rules:** Retakable to 12 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARCH 992 Doctoral Level Independent Work**

1-3 cr. Graduate.

Independent study on topics selected in agreement with supervising professor.

**Prerequisites:** grad st; cons instr**Course Rules:** Retakable to 12 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Art and Design (ART)

**ART 100 American Art and Culture**

3 cr. Undergraduate.

Appreciation of North American art through study of diverse cultural traditions including African-American, Native-American, Latino-American, Asian-American and European-American expressive practices.

**Prerequisites:** none.**Course Rules:** Not open for cr or enrollment to Art & Art Educ majors.**General Education Requirements:** A, CD**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 101 Drawing I**

3 cr. Undergraduate.

Exploration of drawing materials, methods, concepts and expression based on visual observation.

**Prerequisites:** Art major or minor.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 105 Art & Design Lecture Series**

3 cr. Undergraduate.

Introduction to contemporary art and design as presented through artist lecture series; addresses themes of form, function, criticism and audience relative to contemporary art practice..

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 106 Art Survey: Creative Practice, Culture and Context**

3 cr. Undergraduate.

Introduction to the visual arts disciplines and contemporary critical concerns. Course themes investigate inter-relations between technical process and expressive intent.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 107 Art Explorations:**

3 cr. Undergraduate.

Special topic course in Art and Design for non-art majors.

**Prerequisites:** none.**Course Rules:** May be retaken with change in topic to 6 cr max. Not open to Art & Art Ed majors.**General Education Requirements:** A**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 108 2D Studio: Concept, Color and Composition**

3 cr. Undergraduate.

An introduction to visual problem solving. Organization of the two-dimensional plane using the elements and principles of design. Includes the study of black and white and the basics of color.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 109 3D Studio: Form, Idea and Technique**

3 cr. Undergraduate.

An introduction to three-dimensional design through constructed surface and form studies, tool usage and fabrication techniques.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 118 Digital Arts: Culture, Theory, Practice**

3 cr. Undergraduate.

Introduction to electronic art and imaging. Focus on historical and cultural contexts, theoretical concepts and studio skills using imaging software.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 124 Design Survey**

3 cr. Undergraduate.

Survey of design disciplines and movements of the 19th, 20th and 21st centuries. Slide lectures include industrial design, architecture, graphic design, and design movements.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 150 Multicultural America**

3 cr. Undergraduate.

Cross-cultural study of U.S. ethnic and racial identities through materials drawn from a variety of media arts practices (e.g. film, photography, new media) with attention to African-, Asian-, Hispanic- and Native American experiences.

**Prerequisites:** none.**Course Rules:** Cultures and Communities Prog course. Jointly offered with & counts as repeat of Film 150.**General Education Requirements:** A, CD**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 152 Photography Survey**

3 cr. Undergraduate.

Survey of photographic processes and movements of the 19th, 20th, and 21st centuries, with emphasis on historical and cultural contexts that shaped the application of the medium.

**Prerequisites:** none**General Education Requirements:** A**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 201 Drawing II**

3 cr. Undergraduate.

Expanded development of drawing materials, methods and expression; focus on conceptual and perceptual process.

**Prerequisites:** ART 101(P), and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 207 Undergraduate Research Assistantship in Art and Design**

1-3 cr. Undergraduate.

An opportunity for freshmen and sophomores to work collaboratively with an Art and Design faculty member on a specific and sustained research project.

**Prerequisites:** admis to First Year Prog or Art & Design, & cons instr.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 208 Color Studio**

3 cr. Undergraduate.

Expanded exploration of the art and science of color for studio media; focus on pigment, screen and digital output.

**Prerequisites:** Art 101(P), 108(P); or cons instr.**Last Taught:** UWinteriM 2015, Summer 2013, Fall 2011, UWinteriM 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 212 Creative Technologies**

3 cr. Undergraduate.

Students explore the relationship between computer graphics, game engines, basic programming, computer vision, and extended reality; students integrate these technologies into a creative dynamic digital experience.

**Prerequisites:** ART 101(P), ART 108(P) or ART 109(P), ART 118(P), and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 218 Moving Images and Sound in Art & Design**

3 cr. Undergraduate.

Introduction to digital and time-based images; including tools in animation, audio, and video production.

**Prerequisites:** satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); ART 101(P), ART 108(P) or 109(P) and ART 118(P); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 221 Introduction to Design**

3 cr. Undergraduate.

Introduction to computer as design and production tool for graphic design, use software to create graphics, edit images and design complex layouts.

**Prerequisites:** ART 101(P), ART 108(P), ART 109(P), ART 118(P), and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 223 Introduction to Typography**

3 cr. Undergraduate.

Introduction to the fundamentals of designing with type; emphasis on formal design skills, type history, conceptual problem-solving.

**Prerequisites:** ART 101(P), ART 108(P), ART 109(P), and ART 118(P); ART 221(C) or ART ED 227(C); satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 224 Dynamic Typography**

3 cr. Undergraduate.

Fundamentals of designing with type; emphasis on formal design skills, conceptual problem solving. Focus on screen-based projects and type in motion, some print design.

**Prerequisites:** Art 101(P), 108(P), & 118(P); or pre-Inter-Arts/IAT prog; Math 102(C), or Math 103(C), or Math 105(C), or Math 108(C), or Level 30 on Math Placement Test; or cons instr.**Last Taught:** Spring 2011, Fall 2010, Fall 2009, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 227 Design Workshop:**

3 cr. Undergraduate.

A concept oriented workshop in graphic design.

**Prerequisites:** see Schedule of Classes. Math 102(C), 103(C), 105(C), 108(C), or Level 30 on Math Placement Test; or cons instr.**Course Rules:** May be retaken w/chg in topic to max of 6 cr.**Last Taught:** Fall 2018, Fall 2017, Fall 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 231 Introduction to Fibers**

3 cr. Undergraduate.

Introduction to fiber materials and processes and contemporary aesthetic consideration in fiber arts.

**Prerequisites:** ART 101(P); ART 108(P) or ART 109(P); and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 238 Fiber Workshop:**

3 cr. Undergraduate.

Special topics course in fibers.

**Prerequisites:** see Schedule of Classes; or cons instr.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Spring 2013, Fall 2012, UWinterIM 2008, Summer 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 243 Introduction to Painting**

3 cr. Undergraduate.

Exploration of oil painting medium including color and construction of pictorial space. Work primarily from observation, investigating range of motifs and personal content.

**Prerequisites:** ART 101(P) and ART 108(P); and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 249 Painting and Drawing Workshop:**

1-3 cr. Undergraduate.

Special topic course in painting and drawing.

**Prerequisites:** admis to Art and Design Prog.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 253 Introduction to Photography**

3 cr. Undergraduate.

Aesthetics and techniques of photography using digital cameras and hybrid digital/analog processes, focusing on manual capture controls, composition, editing, sequencing, and output to create photographs in response to history and contemporary practices of medium.

**Prerequisites:** ART 108(P), ART 118(P), ART 152(P), FILM 180(P), or FILM 181(P); and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 259 Beginning Photographic Workshop:**

1-3 cr. Undergraduate.

Beginning special topic workshop course in photography.

**Prerequisites:** admis to Art & Design prog or Pre-Film/Film prog or Inter-Arts/IAT prog; or cons instr.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2015, Fall 2014, UWinterIM 2013, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 261 Introduction to Sculpture**

3 cr. Undergraduate.

Basic experiences in various sculpture media with an emphasis on the aesthetic interrelationship of techniques and concept.

**Prerequisites:** Art 101(P) and ART 109(P), and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 269 Sculpture Workshop:**

1-3 cr. Undergraduate.

A short term, special topic workshop in sculpture.

**Prerequisites:** see Schedule of Classes.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Spring 2022, UWinteriM 2011, Spring 2010, UWinteriM 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 271 Introduction to Jewelry and Metalsmithing**

3 cr. Undergraduate.

Introduction to major aspects of metalworking and jewelry. Develop design skills and technical competency and explore metalsmithing as an art form. Outside class work required.

**Prerequisites:** ART 101(P), ART 109(P), and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 277 Design for Digital Fabrication**

3 cr. Undergraduate.

Introduction digital design, drawing and fabrication using 3D modeling software and output devices such as 3D printers and laser cutters.

**Prerequisites:** ART 118(P) or equivalent; and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 278 Introduction to Industrial Craft**

3 cr. Undergraduate.

Introduction to fabrication methods, materials and techniques for problem-solving in the design of physical objects.

**Prerequisites:** ART 277(C) and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 279 Jewelry and Metalsmithing Workshop:**

1-3 cr. Undergraduate.

Special topics workshop in jewelry and metalsmithing.

**Prerequisites:** see Schedule of Classes.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 281 Introduction to Ceramics**

3 cr. Undergraduate.

Handbuilding, surface embellishment and glazing of functional and sculptural ceramic forms. Slide lectures of historical and contemporary approaches to the medium.

**Prerequisites:** ART 101(P), ART 109(P), and satisfaction of or concurrent enrollment in Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 289 Ceramics Workshop:**

1-3 cr. Undergraduate.

A short term, special topic workshop in ceramics.

**Prerequisites:** see Schedule of Classes.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Summer 2023, Fall 2019, Fall 2015, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 291 Introduction to Printmaking & Book Arts**

3 cr. Undergraduate.

Introduction to basic studio practices, skills, and materials including plates, presses, inks, and image processing.

**Prerequisites:** ART 101(P) and ART 108(P); and satisfaction of or concurrent enrollment in ART 118, Math Part A (QL-A) and English Part A (OWC-A); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 297 Study Abroad:**

1-12 cr. Undergraduate.

Studio and special problems designed to provide relevant course work for a study abroad in the visual arts.

**Prerequisites:** advanced to Art and Design Program and acceptance in Study Abroad Program.**Course Rules:** May be retaken with topic change.**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 299 Printmaking Workshop:**

3 cr. Undergraduate.

A special topic workshop in Print &amp; Narrative Forms.

**Prerequisites:** see Schedule of Classes.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Spring 2013, Summer 2012, Summer 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 302 Art and Design Workshop:**

3 cr. Undergraduate/Graduate.

Special topic course in Art and Design.

**Prerequisites:** jr st, & admis to Art and Design prog or to IAT; or grad st.**Course Rules:** May be retaken with topic change to 6 cr max.**Last Taught:** Summer 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 302G Art and Design Workshop:**

3 cr. Undergraduate/Graduate.

Special topic course in Art and Design.

**Prerequisites:** jr st, & admis to Art and Design prog or to IAT; or grad st.**Course Rules:** May be retaken with topic change to 6 cr max.**Last Taught:** Summer 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 306 Introduction to Community Art**

3 cr. Undergraduate.

Study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals.

**Prerequisites:** admis to Art & Design, Multicultural America 150(P) (in any area) or ARTED 227(P).**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 309 Issues in Contemporary Art:**

3 cr. Undergraduate.

Lecture course focused on critical issues/theory in contemporary art and culture.

**Prerequisites:** soph st or cons instr.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**General Education Requirements:** A, CD

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 312 Intermediate Digital Studio:**

3 cr. Undergraduate/Graduate.

Students investigate the relationship between concept, material, process, aesthetic, and context in artmaking. Then, students are encouraged to integrate digital and traditional approaches to production.

**Prerequisites:** junior standing and ART 212(P), ART 218(P), ART 277(P), or FILM 222(P); or graduate standing; or consent of instructor.

**Course Rules:** Retakable up to 6 cr with change in topic.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 312G Intermediate Digital Studio:**

3 cr. Undergraduate/Graduate.

Students investigate the relationship between concept, material, process, aesthetic, and context in artmaking. Then, students are encouraged to integrate digital and traditional approaches to production.

**Prerequisites:** junior standing and ART 212(P), ART 218(P), ART 277(P), or FILM 222(P); or graduate standing; or consent of instructor.

**Course Rules:** Retakable up to 6 cr with change in topic.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 313 Creative Coding**

3 cr. Undergraduate/Graduate.

An introduction to principles and applications of coding languages within art and design practice.

**Prerequisites:** junior standing and ART 212 or junior standing and SOIS, CEAS, or SARUP major; or graduate standing; or consent of instructor.

**Course Rules:** Retakable up to 6 cr with change in topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 313G Creative Coding**

3 cr. Undergraduate/Graduate.

An introduction to principles and applications of coding languages within art and design practice.

**Prerequisites:** junior standing and ART 212 or junior standing and SOIS, CEAS, or SARUP major; or graduate standing; or consent of instructor.

**Course Rules:** Retakable up to 6 cr with change in topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 314 Digital Painting**

3 cr. Undergraduate.

Use image-editing/painting software and tablets to generate digital paintings. Traditional rendering techniques will be considered along with color and kinetic concepts.

**Prerequisites:** ART 101(P), ART 108(P), ART 109(P) and ART 118(P); or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 315 Participatory Art and Social Practice**

3 cr. Undergraduate/Graduate.

Students study installation and eco-art, participatory art and social practice, and incorporate contemporary concepts and their strategies into individual and collaborative work.

**Prerequisites:** jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.

**Course Rules:** Counts as repeat of Art 327 w/similar topic.

**Last Taught:** Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 315G Participatory Art and Social Practice**

3 cr. Undergraduate/Graduate.

Students study installation and eco-art, participatory art and social practice, and incorporate contemporary concepts and their strategies into individual and collaborative work.

**Prerequisites:** jr st, admis to Inter-Arts/IAT prog or Art & Design prog; or cons instr.

**Course Rules:** Counts as repeat of Art 327 w/similar topic.

**Last Taught:** Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 316 Creative Interfaces**

3 cr. Undergraduate/Graduate.

An introduction to the creation of interactive experiences using game engines, computer vision, and signal processing technologies.

**Prerequisites:** junior standing and ART 218(P); or junior standing and SOIS, CEAS or SARUP major; or graduate standing; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 316G Creative Interfaces**

3 cr. Undergraduate/Graduate.

An introduction to the creation of interactive experiences using game engines, computer vision, and signal processing technologies.

**Prerequisites:** junior standing and ART 218(P); or junior standing and SOIS, CEAS or SARUP major; or graduate standing; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 317 3D Environments and XR**

3 cr. Undergraduate/Graduate.

An introduction to 3D digital environments, including 3D modeling and Extended Reality (Virtual Reality, Augmented Reality, and Mixed Reality).

**Prerequisites:** junior standing and ART 218(P) or ART 212(P); or junior standing and Information Studies, Engineering, Architecture, or Urban Planning major; or graduate standing; or consent of instructor.

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 317G 3D Environments and XR**

3 cr. Undergraduate/Graduate.

An introduction to 3D digital environments, including 3D modeling and Extended Reality (Virtual Reality, Augmented Reality, and Mixed Reality).

**Prerequisites:** junior standing and ART 218(P) or ART 212(P); or junior standing and Information Studies, Engineering, Architecture, or Urban Planning major; or graduate standing; or consent of instructor.

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 318 Creative Electronics**

3 cr. Undergraduate/Graduate.

Art production using interactive systems such as sensors, microcontrollers, motors, lights.

**Prerequisites:** junior standing and ART 212(P); or junior standing and SOIS, CEAS, or SARUP major; or graduate standing; or consent of instructor.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 318G Creative Electronics**

3 cr. Undergraduate/Graduate.

Art production using interactive systems such as sensors, microcontrollers, motors, lights.

**Prerequisites:** junior standing and ART 212(P); or junior standing and SOIS, CEAS, or SARUP major; or graduate standing; or consent of instructor.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 319 Hybrid Sculptural Forms:**

3 cr. Undergraduate.

Introduction to kinetic, dynamic and responsive sculptural media employing basic electronics, light, interactivity and assembly.

**Prerequisites:** ART 101(P), ART 108(P), ART 109(P) and ART 118(P); or junior standing and SOIS, CEAS or SARUP major; or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 321 Design and Visual Communication I**

3 cr. Undergraduate.

Basic forms and concepts for design and visual communication.

Basic professional and academic concepts explored through studio assignments, lectures and readings.

**Prerequisites:** grade of B- or better in ART 221(P), ART 223(P), and successful completion of Design and Visual Communication portfolio review; or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 322 Topics in Illustration:**

3 cr. Undergraduate.

Application of design and media skills to illustration problems.

Interrelation of image and typography in various graphic forms.

**Prerequisites:** soph st & admis to Art and Design Prog; or cons instr.**Course Rules:** May be retaken w/chg in topic to max of 6 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 323 Typography II**

3 cr. Undergraduate.

Continuation of ART 223; more advanced application of typography in categories of informational and publication design; emphasis on contemporary typographic concepts and designs.

**Prerequisites:** a grade of B- or better in ART 321(P) or consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 324 Web Design**

3 cr. Undergraduate.

Introduction to design for the Internet: information architecture, hypertextuality, creative and client-based sites, critical issues of Internet culture; fundamentals of markup languages, CSS, and software.

**Prerequisites:** sophomore standing and ART 118(P); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 325 Web Design II**

3 cr. Undergraduate.

Exploration of responsive design using HTML, CSS and prototyping tools/frameworks; focus on design for usability across devices.

**Prerequisites:** ART 324(P) or consent of instructor.**Last Taught:** Fall 2020, Fall 2018, Fall 2017, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 327 Digital Media Workshop:**

3 cr. Undergraduate/Graduate.

A concept oriented workshop in digital media.

**Prerequisites:** junior standing or graduate standing or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max. See Schedule of Classes for additional prerequisites.**Last Taught:** Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 327G Digital Media Workshop:**

3 cr. Undergraduate/Graduate.

A concept oriented workshop in digital media.

**Prerequisites:** junior standing or graduate standing or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max. See Schedule of Classes for additional prerequisites.**Last Taught:** Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 329 Package Design**

3 cr. Undergraduate.

Introduction to package design, branding and marketing.

**Prerequisites:** ART 221(P) or ART 277(P); Art 223(R); or consent of instructor.**Course Rules:** May be retaken to a max of 6 cr. Counts as a repeat of ART 427 with similar topic.**Last Taught:** Fall 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 332 Woven Structure I**

3 cr. Undergraduate.

Contemporary concepts in weaving using various materials and loom techniques.

**Prerequisites:** Admis to Art and Design Prog & Art 231(P); or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 333 Pliable Materials/Sculptural Forms**

3 cr. Undergraduate.

Contemporary concepts in fiber construction using various materials &amp; hand construction techniques.

**Prerequisites:** Admis to Art and Design Prog & Art 231(P); or cons instr.**Last Taught:** Fall 2023, Fall 2020, Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ART 336 Print, Paint and Dye on Fabric**

3 cr. Undergraduate.

Batik, tie-die and direct application of dyes and pigments on textiles.

**Prerequisites:** admis to Art and Design Prog & Art 231(P); or cons instr.

**Last Taught:** Fall 2019, Spring 2017, Fall 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 337 Screen Printing on Fabric**

3 cr. Undergraduate.

Design and repeat pattern through the screen printing process on textiles.

Use of dyes and pigments, stencil design and cloth construction.

**Prerequisites:** admis to Art and Design Prog & Art 231(P); or cons instr.

**Last Taught:** Fall 2022, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 342 Figure Drawing**

3 cr. Undergraduate.

Exploration of the figure through traditional and contemporary interpretations using a variety of drawing mediums. Observation of the nude/clothed figure model is required for the course.

**Prerequisites:** ART 101(P), ART 201(102)(P), ART 106(P), and ART 108(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 343 Figure Painting**

3 cr. Undergraduate.

Traditional and contemporary approaches to figurative painting, expanded media/techniques, development of personal direction. Approaches include painting from the figure, abstraction exploration, materials experimentation. Observation of the nude/clothed figure model is required for the course.

**Prerequisites:** ART 243(P) and previous completion of or concurrent enrollment in ART 342.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 344 Watercolor**

3 cr. Undergraduate.

Painting in transparent watercolor. Introduction to basic principles and techniques.

**Prerequisites:** admis to Art and Design prog.

**Last Taught:** Summer 2018, Summer 2017, Summer 2016, Summer 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 347 Reading Works of Art**

3 cr. Undergraduate/Graduate.

An advanced course in the visual 'reading' of works of art from the artists' point of view. Course includes slide lecture, with discussion. Student presentation required.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 347G Reading Works of Art**

3 cr. Undergraduate/Graduate.

An advanced course in the visual 'reading' of works of art from the artists' point of view. Course includes slide lecture, with discussion. Student presentation required.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 350 Intermediate Color Photography and Digital Imaging**

3 cr. Undergraduate.

Critical theory and practices in photography and digital imaging, along with aesthetic and technical challenges of digital photography and color capture, concentrating on digital workflow, retouching, manipulation, compositing, color management, and printing.

**Prerequisites:** ART 218(P), ART 221(P), ART 243(P), ART 253(P), ART 291(P), or FILM 222(P); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 357 Intermediate Studio Lighting**

3 cr. Undergraduate.

Studio and location photography utilizing artificial strobes and continuous lights with modification tools, as an expressive medium to combine technique and aesthetics.

**Prerequisites:** ART 218(P), ART 221(P), ART 243(P), ART 253(P), ART 291(P) or FILM 222(P); or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 358 Intermediate Darkroom Photography**

3 cr. Undergraduate.

Aesthetic and technical analog photography with 35mm, medium, and large format cameras; utilizing light sensitive materials, chemical processes, and digital hybrid methods to produce fine art prints.

**Prerequisites:** ART 108(P), ART 218(P), ART 221(P), ART 243(P), ART 253(P), ART 291(P), FILM 180(P), or FILM 181(P); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2022, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 359 Intermediate Photography Workshop:**

1-3 cr. Undergraduate.

Intermediate special topic workshop course in photography.

**Prerequisites:** soph st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 363 Form and Materials**

3 cr. Undergraduate.

Intermediate level experiences in an expanding range of sculpture processes. Development of expressive awareness through lectures, critiques, discussion and demonstrations.

**Prerequisites:** admis to Art and Design prog & Art 261(P).

**Last Taught:** Fall 2010, Spring 2010, Fall 2009, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 364 Sculpture II**

3 cr. Undergraduate.

Continuation of Art 363.

**Prerequisites:** Art 363(P).

**Last Taught:** Spring 2008, Fall 2007, Spring 2007, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 365 Foundry Techniques**

3 cr. Undergraduate.

Basic and advanced techniques using new and traditional moldmaking technologies. Fields trips to iron pours and conferences when possible.

**Prerequisites:** admis to Art and Design prog & Art 261(P).**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Spring 2012, Summer 2010, Fall 2008, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 366 Between Painting and Sculpture**

3 cr. Undergraduate/Graduate.

A studio laboratory consisting of a wide spectrum of techniques and ideologies, concentrating on the exploration of joining painting and sculpture as a consummate form.

**Prerequisites:** jr st; Art 261(P).**Last Taught:** Spring 2008, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 366G Between Painting and Sculpture**

3 cr. Undergraduate/Graduate.

A studio laboratory consisting of a wide spectrum of techniques and ideologies, concentrating on the exploration of joining painting and sculpture as a consummate form.

**Prerequisites:** jr st; Art 261(P).**Last Taught:** Spring 2008, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 368 Sculptural Practices:**

3 cr. Undergraduate.

Intermediate level course in specialized sculpture processes &amp; skills.

**Prerequisites:** admis to Visual Art prog & Art 261(P).**Course Rules:** May be retaken w/chg in topic to 15 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 369 Sculpture Workshop:**

3 cr. Undergraduate.

A special topic workshop in sculpture.

**Prerequisites:** admis to Art and Design prog & Art 261(P).**Course Rules:** May be retaken w/chg in topic change to 6 cr max.**Last Taught:** Fall 2014, Fall 2013, UWinterIM 2012, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 371 Construction and Fabrication in Jewelry and Metalsmithing**

3 cr. Undergraduate.

Exploration of construction and fabrication methods and expansion of the aesthetic, physical, functional and cultural vocabulary of specific metalsmithing techniques. Four hours studio monitoring mandatory.

**Prerequisites:** admis to Art and Design program and ART 271(P).**Course Rules:** Repeatable to 6 cr max.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 372 The Multiple in Jewelry and Metalsmithing**

3 cr. Undergraduate.

Introduces formal and conceptual issues associated with multiples as an art making strategy, using traditional and experimental casting processes. Four hours studio monitoring mandatory.

**Prerequisites:** admis to Art and Design program and ART 271(P).**Course Rules:** Repeatable to 6 cr max.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 373 Blacksmithing**

3 cr. Undergraduate/Graduate.

Introduction to the fundamentals of blacksmithing and the forging process, the history of blacksmithing, and its use in contemporary art and design.

**Prerequisites:** junior standing and ART 261(P), ART 271(P), or ART 278(P); or graduate standing; or consent of instructor.**Course Rules:** Repeatable to 6 cr max. Counts as a repeat of ART 479 with similar topic.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 373G Blacksmithing**

3 cr. Undergraduate/Graduate.

Introduction to the fundamentals of blacksmithing and the forging process, the history of blacksmithing, and its use in contemporary art and design.

**Prerequisites:** junior standing and ART 261(P), ART 271(P), or ART 278(P); or graduate standing; or consent of instructor.**Course Rules:** Repeatable to 6 cr max. Counts as a repeat of ART 479 with similar topic.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 378 Industrial Processes and Fabrication**

3 cr. Undergraduate/Graduate.

Survey of fabrication methods with emphasis on manipulation of material through industrial processes. Four hours studio monitoring mandatory.

**Prerequisites:** Art 261(P), or Art 271(P), or Art 278(P); or grad st; or cons instr.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 378G Industrial Processes and Fabrication**

3 cr. Undergraduate/Graduate.

Survey of fabrication methods with emphasis on manipulation of material through industrial processes. Four hours studio monitoring mandatory.

**Prerequisites:** Art 261(P), or Art 271(P), or Art 278(P); or grad st; or cons instr.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 379 Jewelry and Metalsmithing Workshop:**

1-3 cr. Undergraduate.

Special topics workshop in jewelry and metalsmithing.

**Prerequisites:** admis to Art and Design prog & Art 271(P).**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2014, Summer 2014, Summer 2013, Summer 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 381 Throwing and Wheel Construction**

3 cr. Undergraduate.

Introduction to the potter's wheel as a forming tool, including integration of hand built and wheel thrown forms, and basic glaze formulation.

**Prerequisites:** admis to Art and Design prog & Art 281(P).**Last Taught:** Fall 2023, Spring 2022, Spring 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 382 Building from the Figure in Clay**

3 cr. Undergraduate.

Human form in clay through observation, drawing and modeling using a variety of ceramic construction methods. Individual conceptual and expressive approaches emphasized. Observation of nude/clothed figure model is required for the course.

**Prerequisites:** Admis to Art and Design program and ART 281(P); or consent of instructor.

**Last Taught:** Fall 2023, Fall 2020, Fall 2017, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 383 Molds and Multiples in Ceramics**

3 cr. Undergraduate.

Moldmaking for ceramics focusing on plaster molds. Press molds and slip casting methods for replication of forms in series, and issues of multiplicity are addressed.

**Prerequisites:** admis to Art and Design prog & Art 281(P); or cons instr.

**Last Taught:** Fall 2022, Fall 2019, Fall 2018, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 384 Experimental Processes in Woodfiring I**

3 cr. Undergraduate.

Contemporary approaches to the ancient process of woodfiring. Development of personal aesthetic using woodfire effects on functional and sculptural work. Technical research, firing participation required.

**Prerequisites:** admis to Art and Design prog & Art 281(P); or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 389 Ceramics Workshop:**

1-3 cr. Undergraduate.

A short term special topic workshop in ceramics.

**Prerequisites:** admis to Art and Design program and ART 281(P); or consent of instructor.

**Course Rules:** May be retaken with change in topic 6 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 391 Intermediate Printmaking & Book Arts:**

3 cr. Undergraduate.

Continuation of Printmaking & Book Arts with focused studio investigations in specialized print media and book arts techniques.

**Prerequisites:** ART 201(P), ART 218(P), ART 221(P), ART 231(P), ART 243(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.

**Course Rules:** May be retaken with change in topic to 15 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 392 Lithography**

3 cr. Undergraduate/Graduate.

Studio work based on stone and plate lithography; lectures on history, multicolor printing, polyester plate and experimental techniques in lithography.

**Prerequisites:** ART 201(P), ART 243(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.

**Last Taught:** Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 392G Lithography**

3 cr. Undergraduate/Graduate.

Studio work based on stone and plate lithography; lectures on history, multicolor printing, polyester plate and experimental techniques in lithography.

**Prerequisites:** ART 201(P), ART 243(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.

**Last Taught:** Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 393 Digital Printmaking**

3 cr. Undergraduate.

A studio course exploring digital media and traditional printmaking. Media/content focus to include array of relevant topics.

**Prerequisites:** admis to Art and Design prog; & Art 291(P), 221(P), or 253(P); or admis to Inter-Arts/IAT; or cons instr.

**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 394 Intaglio**

3 cr. Undergraduate/Graduate.

Studio work in intaglio; drypoint engraving, etching, relief-intaglio; aquatint, experimental procedures, color printing, development of personal graphic concept.

**Prerequisites:** ART 201(P), ART 243(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 394G Intaglio**

3 cr. Undergraduate/Graduate.

Studio work in intaglio; drypoint engraving, etching, relief-intaglio; aquatint, experimental procedures, color printing, development of personal graphic concept.

**Prerequisites:** ART 201(P), ART 243(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 396 Screenprinting**

3 cr. Undergraduate/Graduate.

Screen-print process using the photo-stencil to reproduce hand-drawn and computer manipulated marks and images; printing skills, experimentation with materials and multiple reproduction.

**Prerequisites:** ART 221(P), ART 231(P), ART 253(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.

**Last Taught:** Spring 2014, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 396G Screenprinting**

3 cr. Undergraduate/Graduate.

Screen-print process using the photo-stencil to reproduce hand-drawn and computer manipulated marks and images; printing skills, experimentation with materials and multiple reproduction.

**Prerequisites:** ART 221(P), ART 231(P), ART 253(P), or ART 291(P); or special student and consent of instructor; or consent of instructor.

**Last Taught:** Spring 2014, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 397 Book Arts Workshop:**

3 cr. Undergraduate/Graduate.

Studio work exploring traditional and experimental book structures.

Media/content focus variable to include array of relevant topics.

**Prerequisites:** jr st; or grad st; or cons instr.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 397G Book Arts Workshop:**

3 cr. Undergraduate/Graduate.

Studio work exploring traditional and experimental book structures.

Media/content focus variable to include array of relevant topics.

**Prerequisites:** jr st; or grad st; or cons instr.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 398 Photo Printmaking**

3 cr. Undergraduate.

Studio practice in the use of photo-sensitized plates, various printmaking processes (intaglio, lithography, relief) with emphasis on multiple plate color printing.

**Prerequisites:** admis to Art and Design prog & Art 291(P) or 253(P).**Last Taught:** Fall 2014, Fall 2012, Fall 2010, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 402 Art and Design Workshop:**

1-3 cr. Undergraduate/Graduate.

Special topic course in Art and Design.

**Prerequisites:** jr st & admis to Art and Design prog; or grad st; or cons instr.**Course Rules:** May be retaken w/chg in topic change to 6 cr max.**Last Taught:** Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 402G Art and Design Workshop:**

1-3 cr. Undergraduate/Graduate.

Special topic course in Art and Design.

**Prerequisites:** jr st & admis to Art and Design prog; or grad st; or cons instr.**Course Rules:** May be retaken w/chg in topic change to 6 cr max.**Last Taught:** Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 405 Product Realization**

3 cr. Undergraduate/Graduate.

This interdisciplinary course for engineering and art students considers the diverse aspects of the product realization process.

**Prerequisites:** junior standing and advanced to major in an Art & Design program; or BME 305(P), BME 310(P), and BME 325(P); or IND ENG 350(P), IND ENG 360(P), and IND ENG 370(P); or MECHENG 321(C), MECHENG 360(P), MECHENG 368(P), and MECHENG 370(P); or graduate standing and consent of instructor.**Course Rules:** ART 405 and MECHENG 405 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 405G Product Realization**

3 cr. Undergraduate/Graduate.

This interdisciplinary course for engineering and art students considers the diverse aspects of the product realization process.

**Prerequisites:** junior standing and advanced to major in an Art & Design program; or BME 305(P), BME 310(P), and BME 325(P); or IND ENG 350(P), IND ENG 360(P), and IND ENG 370(P); or MECHENG 321(C), MECHENG 360(P), MECHENG 368(P), and MECHENG 370(P); or graduate standing and consent of instructor.**Course Rules:** ART 405 and MECHENG 405 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 406 Community Arts II**

3 cr. Undergraduate/Graduate.

Intermediate study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals.

**Prerequisites:** Art 306(P); or grad st; or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 406G Community Arts II**

3 cr. Undergraduate/Graduate.

Intermediate study of community arts as a tool for enriching community life, affirming cultural identity, and pursuing political and social justice goals.

**Prerequisites:** Art 306(P); or grad st; or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 408 Nonprofit Information Technology**

3 cr. Undergraduate.

Provides experiential project-based learning opportunities to UWM students while working on a technology project for a local nonprofit organization.

**Prerequisites:** none.**Course Rules:** ART 408, DAC 408, and INFOST 408 are jointly offered and count as repeats of one another. Repeatable to 9 cr max.**Last Taught:** Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 412 Advanced Creative Technologies**

3 cr. Undergraduate/Graduate.

An advanced course that combines technical and conceptual skills from across the Creative Technologies spectrum to design and prototype dynamic creative technology experiences.

**Prerequisites:** junior standing and one of the following: ART 313(P), ART 316(P), ART 317(P), or ART 318(P); or graduate standing; or consent of instructor.**Course Rules:** Retakable up to 9 credits with change in topic. See Schedule of Classes for additional prerequisites for specific topics offerings.**Last Taught:** Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 412G Advanced Creative Technologies**

3 cr. Undergraduate/Graduate.

An advanced course that combines technical and conceptual skills from across the Creative Technologies spectrum to design and prototype dynamic creative technology experiences.

**Prerequisites:** junior standing and one of the following: ART 313(P), ART 316(P), ART 317(P), or ART 318(P); or graduate standing; or consent of instructor.

**Course Rules:** Retakable up to 9 credits with change in topic. See Schedule of Classes for additional prerequisites for specific topics offerings.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 418 Advanced Electronics and Sculpture:**

3 cr. Undergraduate/Graduate.

Advanced art production using interactive systems such as sensors, microcontrollers, motors, lights for interactivity installations & performance.

**Prerequisites:** jr st, admis to Art prog or IAT prog, & Art 318; or grad st; or cons instr. See schedule of classes for any additional prereqs.

**Course Rules:** May be retaken/chg in topic to 9 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 418G Advanced Electronics and Sculpture:**

3 cr. Undergraduate/Graduate.

Advanced art production using interactive systems such as sensors, microcontrollers, motors, lights for interactivity installations & performance.

**Prerequisites:** jr st, admis to Art prog or IAT prog, & Art 318; or grad st; or cons instr. See schedule of classes for any additional prereqs.

**Course Rules:** May be retaken/chg in topic to 9 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 421 Design and Visual Communication II**

3 cr. Undergraduate.

Intermediate level emphasizes a beginning professional synthesis of fundamentals of typography, symbol, image in comprehensive design projects.

**Prerequisites:** a grade of B- or better in ART 321(P) and ART 323(P); or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 422 Design Methodologies: Process, Communication & Theory**

3 cr. Undergraduate.

Focus on creative process and communication; and entrepreneurial, professional and cross-disciplinary practices in design and related fields.

**Prerequisites:** Art 323(P) & successful completion of or exemption from a QL-A course; or cons instr.

**General Education Requirements:** QL B

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 423 Experimental Typography**

3 cr. Undergraduate/Graduate.

Advanced understanding of typography, its use in innovative information systems, its historical context and function in various media including print, architectural applications, Web and multimedia.

**Prerequisites:** junior standing and ART 223(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 423G Experimental Typography**

3 cr. Undergraduate/Graduate.

Advanced understanding of typography, its use in innovative information systems, its historical context and function in various media including print, architectural applications, Web and multimedia.

**Prerequisites:** junior standing and ART 223(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 424 Topics in Web, Interaction and Screen Design:**

3 cr. Undergraduate.

Exploration of concepts and technologies in web, interaction and screen design. Topic and additional prerequisites will be published in Schedule of Classes; students must meet additional prereqs.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 426 Motion Graphics**

3 cr. Undergraduate/Graduate.

Introduction to history and production of short-duration motion graphics (industry, Internet, titling, graphics, creative projects) using contemporary production tools (video editing, compositing, audio recording/sequencing).

**Prerequisites:** jr st & Art 118(P); or grad st; or cons instr.

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 426G Motion Graphics**

3 cr. Undergraduate/Graduate.

Introduction to history and production of short-duration motion graphics (industry, Internet, titling, graphics, creative projects) using contemporary production tools (video editing, compositing, audio recording/sequencing).

**Prerequisites:** jr st & Art 118(P); or grad st; or cons instr.

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 427 Advanced Design Workshop:**

1-3 cr. Undergraduate/Graduate.

A short term, concept oriented workshop in graphic design.

**Prerequisites:** junior standing and ART 221(R) or consent of instructor.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 427G Advanced Design Workshop:**

1-3 cr. Undergraduate/Graduate.

A short term, concept oriented workshop in graphic design.

**Prerequisites:** junior standing and ART 221(R) or consent of instructor.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 431 Special Topics in Fibers:**

3 cr. Undergraduate/Graduate.

Advanced problem-solving working toward the development of cohesive body of work in non-loom construction.

**Prerequisites:** jr st, & Admis to Art and Design prog, & Art 231 (P); or cons instr; or grad st.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 431G Special Topics in Fibers:**

3 cr. Undergraduate/Graduate.

Advanced problem-solving working toward the development of cohesive body of work in non-loom construction.

**Prerequisites:** jr st, & Admis to Art and Design prog, & Art 231 (P); or cons instr; or grad st.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 432 Woven Structure II**

3 cr. Undergraduate/Graduate.

Continuation of ART 332. Further development of individual concepts in weaving leading to a cohesive body of work.

**Prerequisites:** jr st, & Art 332(232)(P); or cons instr; or grad st.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 432G Woven Structure II**

3 cr. Undergraduate/Graduate.

Continuation of ART 332. Further development of individual concepts in weaving leading to a cohesive body of work.

**Prerequisites:** jr st, & Art 332(232)(P); or cons instr; or grad st.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 433 Digital Imaging for Fabric**

3 cr. Undergraduate/Graduate.

Digital processes and screen-printing on textiles with an emphasis on individual expression.

**Prerequisites:** jr st, & Admis to Art and Design prog, & Art 231 (P); or cons instr; or grad st.**Last Taught:** Fall 2015, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 433G Digital Imaging for Fabric**

3 cr. Undergraduate/Graduate.

Digital processes and screen-printing on textiles with an emphasis on individual expression.

**Prerequisites:** jr st, & Admis to Art and Design prog, & Art 231 (P); or cons instr; or grad st.**Last Taught:** Fall 2015, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 434 Fibers III-Weaving**

3 cr. Undergraduate/Graduate.

Individual research and execution of projects in various processes of weaving. Professional execution of work emphasized.

**Prerequisites:** jr st; Art 432(P).**Last Taught:** Spring 2023, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 434G Fibers III-Weaving**

3 cr. Undergraduate/Graduate.

Individual research and execution of projects in various processes of weaving. Professional execution of work emphasized.

**Prerequisites:** jr st; Art 432(P).**Last Taught:** Spring 2023, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 435 Mixed Materials: Concept/Object**

3 cr. Undergraduate/Graduate.

Individual research and execution of projects in various processes of non-loom fiber construction. Professional execution of work emphasized.

**Prerequisites:** jr st, & Admis to Art and Design prog, & Art 231 (P); or cons instr; or grad st.**Last Taught:** Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 435G Mixed Materials: Concept/Object**

3 cr. Undergraduate/Graduate.

Individual research and execution of projects in various processes of non-loom fiber construction. Professional execution of work emphasized.

**Prerequisites:** jr st, & Admis to Art and Design prog, & Art 231 (P); or cons instr; or grad st.**Last Taught:** Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 436 Cloth Construction: Surface to Structure**

3 cr. Undergraduate/Graduate.

Individual research and execution of projects in various processes of fabric printing and construction.

**Prerequisites:** jr st, & Admis to Art and Design prog, & Art 231 (P); or cons instr; or grad st.**Last Taught:** Fall 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 436G Cloth Construction: Surface to Structure**

3 cr. Undergraduate/Graduate.

Individual research and execution of projects in various processes of fabric printing and construction.

**Prerequisites:** jr st, & Admis to Art and Design prog, & Art 231 (P); or cons instr; or grad st.**Last Taught:** Fall 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 438 Fiber Workshop:**

3 cr. Undergraduate/Graduate.

A special topic course in fibers.

**Prerequisites:** specific prerequisites for topics published in the schedule of classes each term.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 438G Fiber Workshop:**

3 cr. Undergraduate/Graduate.

A special topic course in fibers.

**Prerequisites:** specific prerequisites for topics published in the schedule of classes each term.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 441 Drawing Strategies**

3 cr. Undergraduate/Graduate.

Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work with both assigned and independently-conceived problems.

**Prerequisites:** junior standing and ART 342(P); or graduate standing; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 441G Drawing Strategies**

3 cr. Undergraduate/Graduate.

Advanced investigation of drawing as an organizing tool for thought and personal image exploration. Students work with both assigned and independently-conceived problems.

**Prerequisites:** junior standing and ART 342(P); or graduate standing; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 442 Figure Explorations**

3 cr. Undergraduate.

Focus traditional and experimental modes of employing the figure through painting and drawing. Emphasis will be placed on development of a personal direction.

**Prerequisites:** junior standing, admis to Art and Design program, and ART 342(P); or consent of instructor.

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 443 Painting Strategies**

3 cr. Undergraduate.

Emphasis on painting concepts, problem solving, research, construction strategies and development of personal direction.

**Prerequisites:** junior standing ART 243(P), and ART 342(P); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 444 Watercolor**

3 cr. Undergraduate.

Continuation of Art 344. Greater emphasis on individual development and experimental use of the medium.

**Prerequisites:** Art 344(P).

**Last Taught:** Summer 2008, Summer 1998, Spring 1996, Fall 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 447 Reading Works of Art**

3 cr. Undergraduate/Graduate.

Continuation of Art 347.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2008, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 447G Reading Works of Art**

3 cr. Undergraduate/Graduate.

Continuation of Art 347.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2008, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 449 Painting And Drawing Workshop:**

1-3 cr. Undergraduate/Graduate.

A short term, special topic course in painting and drawing. Additional prereqs may appear in the Schedule of Classes.

**Prerequisites:** jr st or writ cons instr.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 449G Painting And Drawing Workshop:**

1-3 cr. Undergraduate/Graduate.

A short term, special topic course in painting and drawing. Additional prereqs may appear in the Schedule of Classes.

**Prerequisites:** jr st or writ cons instr.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 451 Special Topics in Photography:**

3 cr. Undergraduate/Graduate.

Specific topic and additional prerequisites will appear in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing and one of the following: ART 350(P), ART 357(P), ART 358(P), ART 458(P) or FILM 303(P); or graduate standing; or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 451G Special Topics in Photography:**

3 cr. Undergraduate/Graduate.

Specific topic and additional prerequisites will appear in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing and one of the following: ART 350(P), ART 357(P), ART 358(P), ART 458(P) or FILM 303(P); or graduate standing; or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 452 Contemporary Issues in Photography**

3 cr. Undergraduate/Graduate.

Addresses critical issues, theory, and practices surrounding contemporary photography and how photographers have worked to challenge, expand, and reinvent the medium.

**Prerequisites:** junior standing and ART 350(P), ART 357(P), ART 358(P), or FILM 303(P); or graduate standing; or consent of instructor.

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 452G Contemporary Issues in Photography**

3 cr. Undergraduate/Graduate.

Addresses critical issues, theory, and practices surrounding contemporary photography and how photographers have worked to challenge, expand, and reinvent the medium.

**Prerequisites:** junior standing and ART 350(P), ART 357(P), ART 358(P), or FILM 303(P); or graduate standing; or consent of instructor.

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 454 Narrative Photography**

3 cr. Undergraduate/Graduate.

Investigation of contemporary and historical narrative strategies that range from documentary to tableau, utilizing single images and sequencing, and the book, video, and sound.

**Prerequisites:** junior standing, ART 350(P), ART 357(P), ART 358(P), or FILM 303(P); or graduate standing; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 454G Narrative Photography**

3 cr. Undergraduate/Graduate.

Investigation of contemporary and historical narrative strategies that range from documentary to tableau, utilizing single images and sequencing, and the book, video, and sound.

**Prerequisites:** junior standing, ART 350(P), ART 357(P), ART 358(P), or FILM 303(P); or graduate standing; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 456 Advanced Photography & Imaging:**

3 cr. Undergraduate/Graduate.

Topic and additional prerequisites will appear in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing, ART 350(P), ART 357(P), ART 358(P), or ART 458(P) with corresponding topic; or graduate standing; or consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 456G Advanced Photography & Imaging:**

3 cr. Undergraduate/Graduate.

Topic and additional prerequisites will appear in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing, ART 350(P), ART 357(P), ART 358(P), or ART 458(P) with corresponding topic; or graduate standing; or consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 458 Photographic Materials and Processes**

3 cr. Undergraduate/Graduate.

Exploration of experimental methods and aesthetics of the photograph as object from image capture to print, including darkroom/digital manipulation, historical processes, hybrid practice, and alternative presentation strategies.

**Prerequisites:** junior standing or greater; or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 458G Photographic Materials and Processes**

3 cr. Undergraduate/Graduate.

Exploration of experimental methods and aesthetics of the photograph as object from image capture to print, including darkroom/digital manipulation, historical processes, hybrid practice, and alternative presentation strategies.

**Prerequisites:** junior standing or greater; or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 459 Advanced Photography Workshop:**

1-3 cr. Undergraduate/Graduate.

Advanced special topic workshop course in photography.

**Prerequisites:** jr st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or gr st; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 459G Advanced Photography Workshop:**

1-3 cr. Undergraduate/Graduate.

Advanced special topic workshop course in photography.

**Prerequisites:** jr st, admis to Art & Design prog, Pre-Film/Film prog, or Inter-Arts/IAT prog; or gr st; or cons instr. Additional prerequisites may be announced in the Schedule of Classes each time course is offered.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 461 Structural Fabrication/Assembled Objects**

3 cr. Undergraduate.

Exploration of welding processes, wood-working techniques, and mixed media assemblage.

**Prerequisites:** jr st, admis to Art and Design prog, & Art 261(P).

**Last Taught:** Fall 2010, Fall 2009, Fall 2008, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 464 Contemporary Figure Sculpture**

3 cr. Undergraduate.

Exploration and investigation of the human figure from live models. Includes study of anatomy and historical references.

**Prerequisites:** jr st, admis to Art and Design prog, & Art 261(P).

**Last Taught:** Fall 2010, Spring 2008, Fall 2007, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 468 Advanced Sculptural Practices:**

3 cr. Undergraduate/Graduate.

Advanced level course in specialized sculpture processes & skills.

**Prerequisites:** jr st & Art 368(P); or grad st. See Schedule of Classes for additional prereq.

**Course Rules:** May be retaken w/chg in topic to 15 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 468G Advanced Sculptural Practices:**

3 cr. Undergraduate/Graduate.

Advanced level course in specialized sculpture processes & skills.

**Prerequisites:** jr st & Art 368(P); or grad st. See Schedule of Classes for additional prereq.

**Course Rules:** May be retaken w/chg in topic to 15 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 469 Sculpture Workshop:**

1-3 cr. Undergraduate/Graduate.

A short term special topic workshop in sculpture. Specific topic and additional prerequisites may appear in the Timetable each semester.

**Prerequisites:** jr standing or writ cons instr.

**Course Rules:** May be retaken w/chg in topic to a 6 cr max.

**Last Taught:** Fall 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ART 469G Sculpture Workshop:**

1-3 cr. Undergraduate/Graduate.

A short term special topic workshop in sculpture. Specific topic and additional prerequisites may appear in the Timetable each semester.

**Prerequisites:** jr standing or writ cons instr.

**Course Rules:** May be retaken w/chg in topic to a 6 cr max.

**Last Taught:** Fall 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 470 Metal Forming**

3 cr. Undergraduate.

Development of technical competency in metal forming and angle raising through traditional and experimental processes. Four hours studio monitoring mandatory.

**Prerequisites:** admis to Art and Design program and ART 271(P).

**Course Rules:** Repeatable to 6 cr max.

**Last Taught:** Spring 2022, Spring 2020, Spring 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 472 Color on Metal**

3 cr. Undergraduate.

Exploration of surface enrichment through vitreous enamel on metal and other traditional and experimental coloration techniques. Four hours studio monitoring mandatory.

**Prerequisites:** admis to Art and Design program and ART 271(P).

**Course Rules:** Repeatable to 6 cr max.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 473 Special Topics in Jewelry and Metalsmithing:**

3 cr. Undergraduate.

Specific topic and additional prerequisites will appear in Schedule of Classes each time the course is offered. Four hours studio monitoring mandatory.

**Prerequisites:** admis to Art and Design prog & Art 271(P).

**Course Rules:** May be retaken w/chg in topic to 12 cr max.

**Last Taught:** Fall 2019, Spring 2018, Fall 2016, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 474 Portfolio Development in Jewelry and Metalsmithing**

3 cr. Undergraduate/Graduate.

Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, visual documentation and portfolio presentation. Four hours studio monitoring mandatory.

**Prerequisites:** jr st & Admis to Art and Design prog; Art 371(P) or 372(P) or 378(P) or 470(P) or 472(P) or 473(P) or 478(P); or grad st & cons instr.

**Course Rules:** May be retaken to 12 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 474G Portfolio Development in Jewelry and Metalsmithing**

3 cr. Undergraduate/Graduate.

Introduction to professional and academic portfolio preparation including a cohesive body of work, resume, artist statement, visual documentation and portfolio presentation. Four hours studio monitoring mandatory.

**Prerequisites:** jr st & Admis to Art and Design prog; Art 371(P) or 372(P) or 378(P) or 470(P) or 472(P) or 473(P) or 478(P); or grad st & cons instr.

**Course Rules:** May be retaken to 12 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 476 Making and Marketing**

3 cr. Undergraduate/Graduate.

Develop business and marketing skills needed to begin a craft entrepreneur business. Research, design, produce and market a cohesive line of production work and packaging. Group production event participation required. Four hours studio monitoring mandatory.

**Prerequisites:** junior standing or greater; or consent of instructor.

**Course Rules:** Repeatable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 476G Making and Marketing**

3 cr. Undergraduate/Graduate.

Develop business and marketing skills needed to begin a craft entrepreneur business. Research, design, produce and market a cohesive line of production work and packaging. Group production event participation required. Four hours studio monitoring mandatory.

**Prerequisites:** junior standing or greater; or consent of instructor.

**Course Rules:** Repeatable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 478 Digital Fabrication and Craft**

3 cr. Undergraduate/Graduate.

Survey of fabrication methods with an emphasis on computer numeric controlled fabrication & exploration into digital fabrication & craft.

**Prerequisites:** ART 261 and ART 277(P), or ART 271(P) and ART 277(P), or ART 277(P) and ART 278(P), or ARCH 281(P) and ARCH 282(P); or MECHENG 111 and MECHENG 270(P); or graduate standing; or consent of instructor.

**Course Rules:** Retakable up to 6 cr max. Four hours studio monitoring mandatory.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 478G Digital Fabrication and Craft**

3 cr. Undergraduate/Graduate.

Survey of fabrication methods with an emphasis on computer numeric controlled fabrication & exploration into digital fabrication & craft.

**Prerequisites:** ART 261 and ART 277(P), or ART 271(P) and ART 277(P), or ART 277(P) and ART 278(P), or ARCH 281(P) and ARCH 282(P); or MECHENG 111 and MECHENG 270(P); or graduate standing; or consent of instructor.

**Course Rules:** Retakable up to 6 cr max. Four hours studio monitoring mandatory.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 479 Jewelry and Metalsmithing Workshop:**

1-3 cr. Undergraduate/Graduate.

Special topics workshop in jewelry and metalsmithing.

**Prerequisites:** junior standing, admis to Art and Design program, and ART 271(P); or graduate standing and consent of instructor.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 479G Jewelry and Metalsmithing Workshop:**

1-3 cr. Undergraduate/Graduate.

Special topics workshop in jewelry and metalsmithing.

**Prerequisites:** junior standing, admis to Art and Design program, and ART 271(P); or graduate standing and consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 481 Ceramics Studio**

3 cr. Undergraduate/Graduate.

Advanced problem-solving working toward the development of a cohesive body of work in the ceramic medium.

**Prerequisites:** junior standing, admis to Art and Design program, and ART 281(P); or consent of instructor; or graduate standing and consent of instructor.**Last Taught:** Fall 2023, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 481G Ceramics Studio**

3 cr. Undergraduate/Graduate.

Advanced problem-solving working toward the development of a cohesive body of work in the ceramic medium.

**Prerequisites:** junior standing, admis to Art and Design program, and ART 281(P); or consent of instructor; or graduate standing and consent of instructor.**Last Taught:** Fall 2023, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 482 Ceramics Special Topics and Portfolio II**

3 cr. Undergraduate/Graduate.

Continuation of ART 481. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.

**Prerequisites:** jr st, & Art 481(P); or grad st & cons instr.**Last Taught:** Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 482G Ceramics Special Topics and Portfolio II**

3 cr. Undergraduate/Graduate.

Continuation of ART 481. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.

**Prerequisites:** jr st, & Art 481(P); or grad st & cons instr.**Last Taught:** Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 483 Ceramics Special Topics and Portfolio III**

3 cr. Undergraduate/Graduate.

Continuation of ART 482. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.

**Prerequisites:** jr st & Art 482(P); or grad st.**Last Taught:** Fall 2017, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 483G Ceramics Special Topics and Portfolio III**

3 cr. Undergraduate/Graduate.

Continuation of ART 482. Advanced problem solving and development of a cohesive body of work in the ceramic medium. Exploration of special thematic topics.

**Prerequisites:** jr st & Art 482(P); or grad st.**Last Taught:** Fall 2017, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 489 Ceramics Workshop:**

1-3 cr. Undergraduate/Graduate.

A short-term special topic course in ceramics.

**Prerequisites:** jr st & writ cons instr.**Course Rules:** May be retaken w/chg in topic to max of 6 cr.**Last Taught:** Fall 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 489G Ceramics Workshop:**

1-3 cr. Undergraduate/Graduate.

A short-term special topic course in ceramics.

**Prerequisites:** jr st & writ cons instr.**Course Rules:** May be retaken w/chg in topic to max of 6 cr.**Last Taught:** Fall 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 493 Advanced Digital Printmaking**

3 cr. Undergraduate/Graduate.

An advanced studio course exploring digital media and traditional printmaking. Media/content focus to include array of relevant topics.

**Prerequisites:** jr st & Art 393(293)(P); or grad st; or cons instr.**Last Taught:** Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 493G Advanced Digital Printmaking**

3 cr. Undergraduate/Graduate.

An advanced studio course exploring digital media and traditional printmaking. Media/content focus to include array of relevant topics.

**Prerequisites:** jr st & Art 393(293)(P); or grad st; or cons instr.**Last Taught:** Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 495 Advanced Printmaking & Book Arts:**

3 cr. Undergraduate/Graduate.

Advanced development in Printmaking &amp; Book Arts with focused studio investigations in specialized printmaking media and book arts techniques.

**Prerequisites:** junior standing and ART 391(P) with corresponding topic; or graduate standing; or consent of instructor.**Course Rules:** May be retaken to 9 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 495G Advanced Printmaking & Book Arts:**

3 cr. Undergraduate/Graduate.

Advanced development in Printmaking &amp; Book Arts with focused studio investigations in specialized printmaking media and book arts techniques.

**Prerequisites:** junior standing and ART 391(P) with corresponding topic; or graduate standing; or consent of instructor.**Course Rules:** May be retaken to 9 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 496 Sequence and Structure**

3 cr. Undergraduate/Graduate.

Advanced studio course exploring the creation of sequential art and the development of visual narratives using experimental book structures as well as electronic media (web, multimedia).

**Prerequisites:** jr st & Art 291(P) or 253(P); or 221(228)(P); or grad st & cons instr.

**Last Taught:** Spring 2012, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 496G Sequence and Structure**

3 cr. Undergraduate/Graduate.

Advanced studio course exploring the creation of sequential art and the development of visual narratives using experimental book structures as well as electronic media (web, multimedia).

**Prerequisites:** jr st & Art 291(P) or 253(P); or 221(228)(P); or grad st & cons instr.

**Last Taught:** Spring 2012, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Studio and special problems designed to provide relevant course work for a study abroad program in the visual arts.

**Prerequisites:** junior standing and acceptance in Study Abroad Program.

**Course Rules:** May be retaken with change in topic to max of 12 cr.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Studio and special problems designed to provide relevant course work for a study abroad program in the visual arts.

**Prerequisites:** junior standing and acceptance in Study Abroad Program.

**Course Rules:** May be retaken with change in topic to max of 12 cr.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 499 Advanced Printmaking Workshop:**

3 cr. Undergraduate/Graduate.

Special topic course in Print and Narrative Forms.

**Prerequisites:** jr st; or grad st; or cons instr. Add'l prereqs may appear in Schedule of Classes each time course is offered.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2013, Summer 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 499G Advanced Printmaking Workshop:**

3 cr. Undergraduate/Graduate.

Special topic course in Print and Narrative Forms.

**Prerequisites:** jr st; or grad st; or cons instr. Add'l prereqs may appear in Schedule of Classes each time course is offered.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2013, Summer 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 501 Studio Research, Practice, and Portfolio**

3 cr. Undergraduate.

Development of advanced concepts in contemporary studio art practices leading to production of capstone project. Should be taken in student's penultimate semester.

**Prerequisites:** senior standing and at least 9 credits of 300+ level studio coursework in Art & Design; or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 502 Undergraduate Classroom Assistantship in Art and Design**

3 cr. Undergraduate.

Student classroom experience as an assistant to the course instructor in a closely-monitored mentoring situation.

**Prerequisites:** jr st & cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 505 BA Project**

3 cr. Undergraduate.

BA students collect, organize, synthesize, and present capstone project in public event.

**Prerequisites:** senior standing, ART 501(P), and ART 604(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 507 Undergraduate Research Assistantship in Art and Design**

1-3 cr. Undergraduate.

An opportunity for juniors and seniors to work collaboratively with an Art and Design faculty member on a specific and sustained research project.

**Prerequisites:** jr st & cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 509 Art & Design Seminar:**

3 cr. Undergraduate/Graduate.

Topics and critical issues in the modern and/or contemporary field of art. Student research and written/oral reports required.

**Prerequisites:** junior standing and completion of Oral and Written Communication (OWC) Competency Part A; or consent of instructor.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 509G Art & Design Seminar:**

3 cr. Undergraduate/Graduate.

Topics and critical issues in the modern and/or contemporary field of art. Student research and written/oral reports required.

**Prerequisites:** junior standing and completion of Oral and Written Communication (OWC) Competency Part A; or consent of instructor.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 522 Topics in Advanced Illustration:**

3 cr. Undergraduate.

Advanced course exploring contemporary illustration: technologies for its creation, dissemination and viewing, its relationship to design and fine art practice.

**Prerequisites:** jr st & Art 322(P); or cons instr.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2022, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 524 Professional Practice in Design:**

3-6 cr. Undergraduate/Graduate.

Preparation for the design profession through research, writing and portfolio development.

**Prerequisites:** junior standing and ART 221(P); or graduate standing; or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max. Graduate level requires additional research.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 524G Professional Practice in Design:**

3-6 cr. Undergraduate/Graduate.

Preparation for the design profession through research, writing and portfolio development.

**Prerequisites:** junior standing and ART 221(P); or graduate standing; or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max. Graduate level requires additional research.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 526 Research in Universal Design and Fabrication**

3 cr. Undergraduate/Graduate.

Exploration of topics focused on Human Factors in Universal Design.

**Prerequisites:** junior standing; completion of one of the following: ART 221(P), ART 261(P), ART 277(P), ART 378(P), or ART 478(P); or OCCTHPY 220(P) and OCCTHPY 320(P); or ARCH 302(P); or graduate standing; or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max. Counts as a repeat of ART 427 with similar topic.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 526G Research in Universal Design and Fabrication**

3 cr. Undergraduate/Graduate.

Exploration of topics focused on Human Factors in Universal Design.

**Prerequisites:** junior standing; completion of one of the following: ART 221(P), ART 261(P), ART 277(P), ART 378(P), or ART 478(P); or OCCTHPY 220(P) and OCCTHPY 320(P); or ARCH 302(P); or graduate standing; or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max. Counts as a repeat of ART 427 with similar topic.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 528 Print Production and Presentation Techniques**

3 cr. Undergraduate.

Introduction to aspects of design production including scheduling, budgeting, pre-press, paper selection, printing, digital files, vendor communication; digital and hand-assembled mock-ups will be produced.

**Prerequisites:** Art 221(228)(P); or cons instr.**Last Taught:** Fall 2016, Spring 2015, Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 529 Design & Visual Communication III: Capstone & Exhibition**

3 cr. Undergraduate/Graduate.

Capstone course emphasizes a complete and comprehensive synthesis of design and visual communication through comprehensive studio projects developed for a graduate portfolio and exhibition.

**Prerequisites:** junior standing and a grade of B- or better in ART 421(P); or graduate standing; or consent of instructor.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 529G Design & Visual Communication III: Capstone & Exhibition**

3 cr. Undergraduate/Graduate.

Capstone course emphasizes a complete and comprehensive synthesis of design and visual communication through comprehensive studio projects developed for a graduate portfolio and exhibition.

**Prerequisites:** junior standing and a grade of B- or better in ART 421(P); or graduate standing; or consent of instructor.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 531 Senior Project in Fibers**

3 cr. Undergraduate.

Further development of fiber investigations leading to a final project for BFA exhibition.

**Prerequisites:** sr st & cons instr.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2022, Fall 2020, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 539 Fibers-Independent Study**

1-6 cr. Undergraduate/Graduate.

Individual program of supervised study for the advanced student in fibers.

**Prerequisites:** jr st; Admis to Art and Design prog; or grad st, & cons instr.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 539G Fibers-Independent Study**

1-6 cr. Undergraduate/Graduate.

Individual program of supervised study for the advanced student in fibers.

**Prerequisites:** jr st; Admis to Art and Design prog; or grad st, & cons instr.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 541 Drawing Studio**

3 cr. Undergraduate/Graduate.

Advanced investigation of drawing; emphasis on problem solving, research, construction strategies and development of personal direction.

**Prerequisites:** junior standing and ART 441(P); or graduate standing; or consent of instructor.**Course Rules:** May be retaken to 9 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 541G Drawing Studio**

3 cr. Undergraduate/Graduate.

Advanced investigation of drawing; emphasis on problem solving, research, construction strategies and development of personal direction.

**Prerequisites:** junior standing and ART 441(P); or graduate standing; or consent of instructor.

**Course Rules:** May be retaken to 9 cr max.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 542 Advanced Figure Explorations**

3 cr. Undergraduate/Graduate.

Advanced exploration of the human figure through modes of painting and drawing. Emphasis will be placed on development of a personal direction.

**Prerequisites:** junior standing, admis to Art and Design program and ART 442(P); or grad standing with instructor permission.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 542G Advanced Figure Explorations**

3 cr. Undergraduate/Graduate.

Advanced exploration of the human figure through modes of painting and drawing. Emphasis will be placed on development of a personal direction.

**Prerequisites:** junior standing, admis to Art and Design program and ART 442(P); or grad standing with instructor permission.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 543 Painting Studio**

3 cr. Undergraduate/Graduate.

Advanced investigation of painting focused upon personal image exploration through independently conceived problems.

**Prerequisites:** jr st & Admis to Art and Design prog; Art 441(P), & 443(P); or grad st.

**Course Rules:** May be retaken to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 543G Painting Studio**

3 cr. Undergraduate/Graduate.

Advanced investigation of painting focused upon personal image exploration through independently conceived problems.

**Prerequisites:** jr st & Admis to Art and Design prog; Art 441(P), & 443(P); or grad st.

**Course Rules:** May be retaken to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 552 Studio Practice and Research in Photography**

3 cr. Undergraduate/Graduate.

Research and development of a creative practice in support of a professional/academic portfolio; including a cohesive body of work, CV, artist statement, online presence and public presentation/exhibition.

**Prerequisites:** senior standing and completion of two of the following: ART 451(P), ART 452(P), ART 454(P), ART 456(P) or ART 458(P); or graduate standing; or consent of instructor.

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 552G Studio Practice and Research in Photography**

3 cr. Undergraduate/Graduate.

Research and development of a creative practice in support of a professional/academic portfolio; including a cohesive body of work, CV, artist statement, online presence and public presentation/exhibition.

**Prerequisites:** senior standing and completion of two of the following: ART 451(P), ART 452(P), ART 454(P), ART 456(P) or ART 458(P); or graduate standing; or consent of instructor.

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 553 Senior Project in Photography**

3 cr. Undergraduate.

Further development of studio investigations leading to a final project for BFA Exhibition.

**Prerequisites:** sr st, grade of B- or better in Art 552(P); or cons instr.

**Last Taught:** Fall 2022, Spring 2022, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 561 Conceptual Process, Sculptural Presence**

3 cr. Undergraduate/Graduate.

Development of advanced concepts in contemporary sculpture.

**Prerequisites:** jr st; Admis to Art and Design prog, & Art 261(P), & 363(P); or 365(P); or 461(P); or 464(P); or grad st.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 561G Conceptual Process, Sculptural Presence**

3 cr. Undergraduate/Graduate.

Development of advanced concepts in contemporary sculpture.

**Prerequisites:** jr st; Admis to Art and Design prog, & Art 261(P), & 363(P); or 365(P); or 461(P); or 464(P); or grad st.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 562 Environmental Sculpture and Installation**

3 cr. Undergraduate/Graduate.

Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.

**Prerequisites:** jr st & Admis to Art and Design prog; Art 363(P) & 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2010, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 562G Environmental Sculpture and Installation**

3 cr. Undergraduate/Graduate.

Development of sculptural work that incorporates the environment, integration of sculptural form, installation, and performance.

**Prerequisites:** jr st & Admis to Art and Design prog; Art 363(P) & 365(P), or 461(P), or 464(P), or 561(P); or grad st & cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2010, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 567 Senior Project in Sculpture**

3 cr. Undergraduate.

Further development of independent sculpture investigations leading to a final project for BFA Exhibition.

**Prerequisites:** sr st & Art 561(P); or 562(P); or cons instr.**Last Taught:** Fall 2022, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 573 Advanced Blacksmithing**

3 cr. Undergraduate/Graduate.

Advanced explorations of blacksmithing and the forging process.

Students will apply advanced skills and concepts to developed projects in the medium.

**Prerequisites:** ART 373(P) or ART 373G(P) or consent of instructor.**Course Rules:** Repeatable to 6 cr max. Counts as a repeat of ART 479 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 573G Advanced Blacksmithing**

3 cr. Undergraduate/Graduate.

Advanced explorations of blacksmithing and the forging process.

Students will apply advanced skills and concepts to developed projects in the medium.

**Prerequisites:** ART 373(P) or ART 373G(P) or consent of instructor.**Course Rules:** Repeatable to 6 cr max. Counts as a repeat of ART 479 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 575 Senior Project in Jewelry and Metalsmithing**

3 cr. Undergraduate.

Research and create a cohesive body of work based on technical, aesthetic and conceptual explorations for BFA Exhibition.

**Prerequisites:** sr st & Art 371(P), 474 (P); & four of the following: 372(C), 378 (C), 470(C), 472(C), 473(C), 478(C); or cons instr.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 578 Research in Digital Fabrication and Craft:**

3 cr. Undergraduate/Graduate.

Interdisciplinary research into digital fabrication, rapid prototyping and design.

**Prerequisites:** ART 478(P); or graduate standing; or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 578G Research in Digital Fabrication and Craft:**

3 cr. Undergraduate/Graduate.

Interdisciplinary research into digital fabrication, rapid prototyping and design.

**Prerequisites:** ART 478(P); or graduate standing; or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 583 Senior Project in Ceramics**

3 cr. Undergraduate.

Further development of independent investigations in ceramics leading to a final project for BFA Exhibition.

**Prerequisites:** sr st & Art 482(P); or cons instr.**Last Taught:** Fall 2021, Spring 2021, Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 584 Experimental Processes in Woodfiring II**

3 cr. Undergraduate/Graduate.

Advanced research and further development of personal aesthetic in woodfiring. Leadership in supervising the firing process required.

**Prerequisites:** jr st, & Art 384(P); or grad st & cons instr.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 584G Experimental Processes in Woodfiring II**

3 cr. Undergraduate/Graduate.

Advanced research and further development of personal aesthetic in woodfiring. Leadership in supervising the firing process required.

**Prerequisites:** jr st, & Art 384(P); or grad st & cons instr.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 591 Portfolio in Print and Narrative Forms**

3 cr. Undergraduate/Graduate.

Introduction to professional and academic portfolio preparation including a cohesive body of work, studio research strategies, artist statement, professional writing samples, and visual documentation.

**Prerequisites:** junior standing or graduate standing or consent of instructor.**Course Rules:** May be retaken to 9 cr max.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 591G Portfolio in Print and Narrative Forms**

3 cr. Undergraduate/Graduate.

Introduction to professional and academic portfolio preparation including a cohesive body of work, studio research strategies, artist statement, professional writing samples, and visual documentation.

**Prerequisites:** junior standing or graduate standing or consent of instructor.**Course Rules:** May be retaken to 9 cr max.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 595 Colloquium: Print and Narrative Forms**

3 cr. Undergraduate/Graduate.

Imaging and hybrid forms in contemporary photographic, book arts, narrative forms and print work.

**Prerequisites:** jr st; or grad st; or cons instr.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Fall 2016, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 595G Colloquium: Print and Narrative Forms**

3 cr. Undergraduate/Graduate.

Imaging and hybrid forms in contemporary photographic, book arts, narrative forms and print work.

**Prerequisites:** jr st; or grad st; or cons instr.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Fall 2016, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 597 Senior Project in Print and Narrative Forms**

3 cr. Undergraduate.

Further development of studio investigations leading to a final project for BFA Exhibition.

**Prerequisites:** sr st & cons instr.**Last Taught:** Fall 2022, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 601 BFA Project and Exhibition**

3 cr. Undergraduate.

Further development of studio investigations leading to a final project for BFA Exhibition.

**Prerequisites:** senior standing and ART 501(P).

**Last Taught:** Fall 2023, Spring 2023, Spring 1996, Spring 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 603 Advanced Studio Practice**

1-3 cr. Undergraduate/Graduate.

A special course open only to seniors and graduate students with written cons instr.

**Prerequisites:** sr st; writ cons instr.

**Course Rules:** May be retaken to max of 3 cr.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 603G Advanced Studio Practice**

1-3 cr. Undergraduate/Graduate.

A special course open only to seniors and graduate students with written cons instr.

**Prerequisites:** sr st; writ cons instr.

**Course Rules:** May be retaken to max of 3 cr.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 604 Professional Practices**

3 cr. Undergraduate.

Preparation for graduating Art and Design seniors with skills needed for a career in the competitive field of visual art: professional writing, resumes, budgets, taxes.

**Prerequisites:** senior standing, concurrent enrollment in or previous completion of ART 501, and successful completion of, or exemption from, a QL-A course; or consent of instructor.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 605 BFA Exhibition**

1 cr. Undergraduate.

Independent supervised preparation and exhibition in Art & Design to fulfill BFA degree requirements.

**Prerequisites:** sr st, enrol conc in an advanced studio course; or cons instr.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 606 BFA Exhibition in Design**

1 cr. Undergraduate.

Supervised preparation and exhibition in conjunction with Art 529 Graphic Design III to fulfill degree requirements.

**Prerequisites:** Art 421(P) & 529(C).

**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 608 Art and Design Internship**

3-6 cr. Undergraduate/Graduate.

Provides structured opportunities for art students to earn credit for skills and professional experience gained working in galleries, museums, studios, arts organizations or art businesses.

**Prerequisites:** jr st & admis to Art and Design prog; or grad st & cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 608G Art and Design Internship**

3-6 cr. Undergraduate/Graduate.

Provides structured opportunities for art students to earn credit for skills and professional experience gained working in galleries, museums, studios, arts organizations or art businesses.

**Prerequisites:** jr st & admis to Art and Design prog; or grad st & cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 609 Independent Reading and Research**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** sr st & writ cons instr.

**Course Rules:** May be retaken/chg in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 609G Independent Reading and Research**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** sr st & writ cons instr.

**Course Rules:** May be retaken/chg in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 612 Senior Project in Digital Studio Practice**

3 cr. Undergraduate.

Further development of independent investigation in Digital Media, leading to a final project for BFA Exhibition.

**Prerequisites:** sr st & cons instr.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 621 The Design Group**

3 cr. Undergraduate.

Development of advanced understanding of visual, theoretical, historical, professional and technical aspects of design practice through work with client(s).

**Prerequisites:** cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 627 Design Seminar:**

3 cr. Undergraduate/Graduate.

Role and responsibility of professional designer investigated. Topics may include contemporary trends and issues, design education, ethics, social activism, career opportunities.

**Prerequisites:** jr st; or grad st; or cons instr.

**Last Taught:** Fall 2017, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 627G Design Seminar:**

3 cr. Undergraduate/Graduate.

Role and responsibility of professional designer investigated. Topics may include contemporary trends and issues, design education, ethics, social activism, career opportunities.

**Prerequisites:** jr st; or grad st; or cons instr.**Last Taught:** Fall 2017, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 643 Senior Project in Painting**

3 cr. Undergraduate.

Further development of independent painting investigations leading to a final project for BFA Exhibition.

**Prerequisites:** sr st & Art 543(P); or cons instr.**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 645 Painting and Drawing Critique**

3 cr. Undergraduate/Graduate.

An advanced critique format course to investigate painting and drawing mediums. Students will develop and discuss conceptual, technical, and collective dialogue strategies.

**Prerequisites:** sr st or writ cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 645G Painting and Drawing Critique**

3 cr. Undergraduate/Graduate.

An advanced critique format course to investigate painting and drawing mediums. Students will develop and discuss conceptual, technical, and collective dialogue strategies.

**Prerequisites:** sr st or writ cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 705 Graduate Graphic Design**

3 cr. Graduate.

Individual research in graphic design.

**Prerequisites:** graduate standing or consent of instructor.**Course Rules:** Previously ART 629.**Last Taught:** Fall 2013, Spring 2011, Spring 2008, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 721 Design Thinking & Making**

3 cr. Graduate.

Focus on design process: identify/define problems, communication modes, nature of representation, dimensions of context, solution assessment. Develop storytelling skills. Rapid prototyping, qualitative/quantitative research, collaboration, co-design.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 727 MA Thesis Seminar in Design Entrepreneurship + Innovation**

3 cr. Graduate.

Seminar focused on theory and methods for graduate research in Design Entrepreneurship + Innovation.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 753 Graduate Photography I**

3 cr. Graduate.

Self-directed research in photography with involvement in group critiques.

**Prerequisites:** grad st.**Last Taught:** Spring 2007, Spring 2006, Fall 2005, Fall 1998.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 821 Collaborative Project in Design Entrepreneurship + Innovation**

3 cr. Graduate.

Focus on collaboration and human-centered design practices, processes and activities including design thinking, research, iterative process, prototyping, and storytelling.

**Prerequisites:** grad st & Art 721(P); or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 827 MA Thesis Prep in Design Entrepreneurship + Innovation**

1-3 cr. Graduate.

Supervision in support of MA Thesis Project separate from but in conjunction with students MA Thesis Committee.

**Prerequisites:** Art 727(P) & cons instr.**Course Rules:** Retakable to 3 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 851 Graduate Photography II**

3 cr. Graduate.

Continuation of Art 753.

**Prerequisites:** grad st; Art 753(P).**Last Taught:** Spring 2007, Spring 2006, Spring 1999, Spring 1997.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirements.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Summer 2015, Fall 2006, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 900 Graduate Studio**

3 cr. Graduate.

Ongoing critique of individual studio research in students' chosen medium(s). Emphasis on developing and maintaining interdisciplinary dialogue. Studio research, individual, and group critiques required.

**Prerequisites:** grad st.**Course Rules:** Retakable to 21 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 901 Seminar in Art-Philosophy and Concepts**

3 cr. Graduate.

Presentations and discussions centering on contemporary concerns in art. Student research and oral reports.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART 903 Seminar in Art-Reading and Research**

3 cr. Graduate.

Experience in the systematic development and production of written and visual documentation or research.

**Prerequisites:** grad st**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ART 904 Seminar In Art-Unique Topics:**

3 cr. Graduate.

Examination of unique topics and issues of the modern and/or contemporary field of art. Student scholarly research and written/oral reports required.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 905 Seminar in Art - Critique Colloquium**

3 cr. Graduate.

Studio critique/discussion to develop analytical perceptual skills in the understanding/comprehension of works of art. Student research, presentation and written/oral reports required.

**Prerequisites:** grad st

**Last Taught:** Spring 2009, Spring 2007, Spring 2005, Spring 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 906 Graduate Workshop:**

3 cr. Graduate.

A special topic workshop for graduate students including reading, research, writing and studio practice.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 908 Advanced Studio Research**

1-4 cr. Graduate.

Independent studio research.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 909 Independent Reading and Research**

1-4 cr. Graduate.

Independent reading and research relative to scholarly issues in art.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Fall 2023, Spring 2023, UWinteriM 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 918 Advanced Research-InterMedia**

1-4 cr. Graduate.

Independent work and research in combined media.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 929 Advanced Research-Design & Digital Media**

1-4 cr. Graduate.

Individual work and research in design and digital media.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 930 Advanced Research-Fibers**

1-4 cr. Graduate.

Independent work and research in fibers.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Fall 2016, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 943 Advanced Research-Painting**

1-4 cr. Graduate.

Independent work and research in painting/drawing.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Spring 2019, Fall 2018, Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 952 Advanced Research-Photography**

1-4 cr. Graduate.

Independent work and research in photography.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 961 Advanced Research - Sculpture**

1-4 cr. Graduate.

Independent work and research in sculpture.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Spring 2019, Spring 2017, Fall 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 973 Advanced Research-Jewelry and Metalsmithing**

1-4 cr. Graduate.

Independent work and research in jewelry and metalsmithing.

**Prerequisites:** grad st

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 989 Advanced Research-Ceramics**

1-4 cr. Graduate.

Independent work and research in ceramics.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Fall 2017, Spring 2015, Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART 994 Advanced Research-Printmaking**

1-4 cr. Graduate.

Independent work and research in printmaking, bookmaking, and experimental narrative.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 21 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

# Art Education (ART ED)

## ART ED 130 Multicultural Art and Visual Learning in Elementary Education

3 cr. Undergraduate.

A study of art and its relationship to human development. Designed for teachers interested in providing developmentally appropriate art experiences for children from pre-school through 6th grade. Lectures, discussions, readings, and lab activities will emphasize the use of art materials, equipment, and visual aids

**Prerequisites:** none.

**Course Rules:** Not open for degree cr to Art & Art Ed majors. Not open for degree cr to Art & Art Ed majors.

**General Education Requirements:** A, CD

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 227 Introduction to Art Education

3 cr. Undergraduate.

Early introduction to the field of art education, afford students opportunity to observe in schools, and provide Art Ed faculty opportunity to connect with students earlier in program.

**Prerequisites:** soph st; admis to Art and Design prog.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 228 Learning Processes in Art Education

3 cr. Undergraduate.

Introduction to theories of visual learning, art criticism centered on contemporary artists, academic language for teaching in K-12 settings. Exploration of portable technologies in teaching-learning.

**Prerequisites:** soph st; admis to Art and Design prog.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 327 Art Education Theory and Practice: Elementary

6 cr. Undergraduate.

Theory and practice explored through school-based field experiences, readings, and research. Curriculum design and implementation with an urban focus. 50 hrs of observations in elementary school required.

**Prerequisites:** jr st, admis to Art Ed prog, & completion of Oral and Written Communication (OWC) Competency Part A GER, & cons instr.

**Course Rules:** Counts as repeat of Art Ed 225, 250, & 375.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 328 Art Education Theory and Practice: Secondary

6 cr. Undergraduate.

Theory and practice explored through school-based field experiences, readings, and research. Curriculum design and implementation with an urban focus. 50 hrs of observations in secondary school required.

**Prerequisites:** jr st, admis to Art Ed prog, Art Ed 327(P), & successful completion of or exemption from a QL-A course & cons instr.

**Course Rules:** Counts as repeat of Art Ed 325 & 350.

**General Education Requirements:** QLB

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 425 Student Teaching in Art I - Elementary Levels

5 cr. Undergraduate.

Pre-professional teaching internship in preschool/kindergarten through sixth grade.

**Prerequisites:** sr st & Art Ed majors or Art Cert students only, dept GPA requirements, English proficiency, health clearance, Art Ed 227(P), 327(P), 328(P), 426(C), & cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 426 Student Teaching in Art II: Secondary Levels

5 cr. Undergraduate.

Pre-professional teaching internship in grades seven through twelve.

**Prerequisites:** sr st & Art Ed majors or Art Cert students only; dept GPA requirements, English proficiency, health clearance, Art Ed 227(P), 327(P), 328(P), 425(C), & cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 489 Art Education Workshop:

1-3 cr. Undergraduate/Graduate.

A short-term, concept-oriented workshop in the visual and tactile arts with special focus on current issues of particular interest to the professional art educator.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 6 cr.

**Last Taught:** Summer 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 489G Art Education Workshop:

1-3 cr. Undergraduate/Graduate.

A short-term, concept-oriented workshop in the visual and tactile arts with special focus on current issues of particular interest to the professional art educator.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 6 cr.

**Last Taught:** Summer 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 699 Independent Reading and Research

1-4 cr. Undergraduate.

**Prerequisites:** sr st & writ cons instr.

**Course Rules:** May be retaken for cr.

**Last Taught:** Fall 2023, Spring 2023, UWinteriM 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 801 Seminar in Urban Education and the Visual Arts

3 cr. Graduate.

Seminar on issues related to urban schools. Emphasis on the art in urban education and consequent demands made upon curriculum.

**Prerequisites:** grad st; Art Ed 750 or cons instr.

**Last Taught:** Spring 2000, Spring 1997, Spring 1995, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## ART ED 810 Curricular Designs for Art Instruction

3 cr. Graduate.

Curricular rationales and models will be studied and tested. Emphasis on use of art history and criticism with studio-based curricula.

**Prerequisites:** grad st; Art Ed 775 or cons instr.

**Last Taught:** Fall 2016, Spring 2011, Fall 1998, Fall 1996.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ART ED 830 Teaching Art With Works of Art**

3 cr. Graduate.

Study of ways historic and contemporary masterworks can enhance art curricula. Use of art museums will be emphasized and visual resources examined.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2017, Spring 2015, Spring 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART ED 850 Supervision and Administration of Art Programs**

3 cr. Graduate.

Study of supervisory and administrative practices related to art programs. Staff development techniques, management procedures, evaluation processes, community relations, and grant writing emphasized.

**Prerequisites:** grad st; Art Ed 750(P) or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART ED 860 Teaching Art in Higher Education**

3 cr. Graduate.

Study of curricular models, administrative structures and policies, and teaching methods used by arts administrators, educators, and master artists in higher education.

**Prerequisites:** grad st; Art Ed 725(P) or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART ED 900 Advanced Independent Problems in Art Education**

3 cr. Graduate.

Applied research in art education with emphasis on student generated problems in studio practices, Art History, criticism, Anthropology, Sociology, and aesthetics, or Psychology.

**Prerequisites:** grad st; cons grad advisor & instr.**Course Rules:** May be repeated to max of 6 cr.**Last Taught:** Spring 2021, Fall 2016, Spring 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART ED 910 Seminar in Art Education:**

3 cr. Graduate.

Each seminar will focus on a special topic relevant to art education. Topic related lectures, readings, and discussions will conclude in a required research report.

**Prerequisites:** grad st; cons instr.**Course Rules:** May be repeated with change in topic to max of 9 cr.**Last Taught:** Fall 2016, Fall 2015, Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART ED 920 Research Methods in Art Education**

3 cr. Graduate.

The study of research models and methods used in the field. Student will develop a research proposal and design a research strategy. Participation in a field study required.

**Prerequisites:** grad st; cons instr. Completion of 24 grad cr in degree program.**Last Taught:** Spring 2018, Spring 2016, Spring 2015, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART ED 990 Master's Thesis**

1-3 cr. Graduate.

Thesis research and advisement for m.s. in art education students who have completed course requirements for the degree.

**Prerequisites:** grad st; completion of 30 grad cr; cons grad advisor.**Course Rules:** May be repeated to max of 9 cr.**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART ED 998 Doctoral Dissertation**

1-3 cr. Graduate.

Doctoral dissertation research and advisement for candidates for Ph.D. in urban education with a specialty in art education.

**Prerequisites:** doctoral candidacy; approval of doctoral advisor.**Course Rules:** May be repeated to max of 12 cr.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ART ED 999 Independent Reading and Research**

1-4 cr. Graduate.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2020, Fall 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Art History (ARTHIST)

**ARTHIST 101 Ancient and Medieval Art and Architecture**

3 cr. Undergraduate.

The great originative styles of Egypt, Greece, Rome, and the Christian West in architecture, sculpture, and painting.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 102 Renaissance to Modern Art and Architecture**

3 cr. Undergraduate.

Representative masters in the historical development of European painting, sculpture, and architecture from the fifteenth century to the present.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 103 History of Architecture**

3 cr. Undergraduate.

Architecture from Stonehenge to the present, examining the nature of the art, major styles and significant architects, and relation to society, technology, and the environment.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 104 African, New World and Oceanic Art and Architecture**

3 cr. Undergraduate.

Major art forms in oceanic, pre-Columbian, American Indian, and African art; their functions and meanings.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Summer 2023, Spring 2023, Spring 2022, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 105 Asian Art and Architecture**

3 cr. Undergraduate.

Functions and meanings of major art forms in the art of Asia, including India, China, Japan, and Southeast Asia.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 111 Entertainment Arts: Film, Television, and the Internet**

3 cr. Undergraduate.

History of film, television, and the Internet. Focus on economic and aesthetic features of these media and interrelationships among them.

Models for critiquing each form.

**Prerequisites:** none.**Course Rules:** ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 192 First-Year Seminar.**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** HU**Last Taught:** Fall 2019, Fall 2005, Fall 2002, Fall 2001.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 205 History of Film I: Development of an Art**

3 cr. Undergraduate.

The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.

**Prerequisites:** none.**Course Rules:** ArtHist 205 & FilmStd 205 are jointly offered; they count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 206 History of Film II: Development of an Art**

3 cr. Undergraduate.

The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.

**Prerequisites:** none.**Course Rules:** ArtHist 206 & FilmStd 206 are jointly offered; they count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 210 The Art and Architecture of the First Cities: A Global Perspective**

3 cr. Undergraduate.

The art and monuments of the first cities of the ancient world from the Near East to the Americas which gave rise to urbanization as we know it.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 220 Introduction to Medieval Art and Architecture**

3 cr. Undergraduate.

Introduces key principles of artistic production in the late Roman, early Christian, Byzantine, and Medieval periods, c. 150-800 CE, including the style, the role of the Bible in medieval image theory, iconography, and typology.

**Prerequisites:** none.**Last Taught:** Spring 2018, Spring 2016, Spring 2015, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 237 Northern Renaissance Art**

3 cr. Undergraduate.

Painting, graphics, and sculpture, 1364-1569; their influence on great 15th- and 16th-century styles. Main French, Dutch, and German artistic developments in historical context.

**Prerequisites:** soph st.**Last Taught:** Fall 2022, Spring 2021, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 240 Introduction to Prints and Printmaking: History and Techniques**

3 cr. Undergraduate.

The history of print media and its development in Europe, Asia, and the Americas since 1450. Emphasis on historical, artistic, material, cultural contexts.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 241 Introduction to Baroque Art**

3 cr. Undergraduate.

Representative masters of the 17th century, including Caravaggio, Rubens, Rembrandt, Bernini, Velazquez, and Poussin.

**Prerequisites:** soph st.**General Education Requirements:** HU**Last Taught:** Spring 2023, Fall 2019, Fall 2013, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 250 Introduction to American Art**

3 cr. Undergraduate.

Traces major artists, styles, themes, and issues in American painting, sculpture, and photography from colonial through contemporary periods.

**Prerequisites:** soph st.

**General Education Requirements:** HU

**Last Taught:** Fall 2021, Fall 2020, Fall 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 251 Introduction to the Art and Architecture of Latin America**

3 cr. Undergraduate.

Art and architecture of Latin America from 1492 to the mid-twentieth century.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 255 Survey of Italian Renaissance Painting and Sculpture**

3 cr. Undergraduate.

Overview of Italian Renaissance art, tracing its origins with the painter Giotto in the fourteenth century to its culmination in Michelangelo's sixteenth-century masterpieces.

**Prerequisites:** none

**Last Taught:** Fall 2023, Spring 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 260 Spanish Visual Art and Culture: 1450-1830**

3 cr. Undergraduate.

Masterpieces by Spanish artists, including El Greco, Velazquez, and Goya; the social and intellectual forces at play in their works.

**Prerequisites:** soph st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 261 Modern Art**

3 cr. Undergraduate.

Survey of characteristics and developments of modern art movements.

Representative theories, groups, and personalities.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Spring 2022, Fall 2021, Fall 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 270 Pre-Columbian Art, Myth, and Legacy**

3 cr. Undergraduate.

The conquest of the Americas and the art of three Pre-Columbian civilizations: the Aztec, Maya, and Inca.

**Prerequisites:** none.

**Last Taught:** Spring 2015, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 281 Modern and Contemporary Chinese Art**

3 cr. Undergraduate.

Comprehensive survey of modern and contemporary Chinese art history.

**Prerequisites:** none.

**Last Taught:** Fall 2015, Spring 2014, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 289 Internship in Art History, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of art history in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in ArtHist; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Fall 2018, Fall 2005, Spring 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** UWinterIM 2024, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 1997, Spring 1997, Fall 1995, Spring 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 307 Film Directors:**

3 cr. Undergraduate/Graduate.

Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work.

**Prerequisites:** jr st; ArtHist 205(R) or 305(R).

**Course Rules:** May be retaken w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another.

**Last Taught:** Fall 2016, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 307G Film Directors:**

3 cr. Undergraduate/Graduate.

Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work.

**Prerequisites:** jr st; ArtHist 205(R) or 305(R).

**Course Rules:** May be retaken w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another.

**Last Taught:** Fall 2016, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 308 Film Styles:**

3 cr. Undergraduate/Graduate.

A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another.

**Last Taught:** Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 308G Film Styles:**

3 cr. Undergraduate/Graduate.

A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another.

**Last Taught:** Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 312 Minoan and Mycenaean Art and Archaeology**

3 cr. Undergraduate/Graduate.

Architecture, sculpture, and painting in the Aegean during the Bronze Age, with emphasis on recent archaeological discoveries.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 312G Minoan and Mycenaean Art and Archaeology**

3 cr. Undergraduate/Graduate.

Architecture, sculpture, and painting in the Aegean during the Bronze Age, with emphasis on recent archaeological discoveries.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 313 Greek Art and Archaeology**

3 cr. Undergraduate/Graduate.

Major developments in Greek art from Archaic times through the Hellenistic period. Emphasis on architecture, sculpture, and painting of the Archaic and Classical periods.

**Prerequisites:** jr st.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 313G Greek Art and Archaeology**

3 cr. Undergraduate/Graduate.

Major developments in Greek art from Archaic times through the Hellenistic period. Emphasis on architecture, sculpture, and painting of the Archaic and Classical periods.

**Prerequisites:** jr st.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 314 Art and Archaeology of the Ancient Near East**

3 cr. Undergraduate/Graduate.

Ur, Gilgamesh, Mesopotamia; the art and archaeology of the first cities in the ancient Near East from the Neolithic to Alexander the Great's conquest.

**Prerequisites:** jr st; ArtHist 101(P).

**Course Rules:** Counts as repeat of ArtHist 499 w/same topic.

**Last Taught:** Spring 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 314G Art and Archaeology of the Ancient Near East**

3 cr. Undergraduate/Graduate.

Ur, Gilgamesh, Mesopotamia; the art and archaeology of the first cities in the ancient Near East from the Neolithic to Alexander the Great's conquest.

**Prerequisites:** jr st; ArtHist 101(P).

**Course Rules:** Counts as repeat of ArtHist 499 w/same topic.

**Last Taught:** Spring 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 315 Art and Archaeology of Ancient Egypt**

3 cr. Undergraduate/Graduate.

Architecture, arts, and crafts created for Egyptian kings, nobles, and commoners from the Predynastic period (5500 B.C.E.) to Cleopatra (31 B.C.E.).

**Prerequisites:** jr st; ArtHist 101(R).

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 315G Art and Archaeology of Ancient Egypt**

3 cr. Undergraduate/Graduate.

Architecture, arts, and crafts created for Egyptian kings, nobles, and commoners from the Predynastic period (5500 B.C.E.) to Cleopatra (31 B.C.E.).

**Prerequisites:** jr st; ArtHist 101(R).

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 316 Roman Art and Archaeology**

3 cr. Undergraduate/Graduate.

Major developments in the evolution of Roman architecture, sculpture and painting from Republican through late Imperial times.

**Prerequisites:** jr st.

**Last Taught:** Spring 2019, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 316G Roman Art and Archaeology**

3 cr. Undergraduate/Graduate.

Major developments in the evolution of Roman architecture, sculpture and painting from Republican through late Imperial times.

**Prerequisites:** jr st.

**Last Taught:** Spring 2019, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 323 Age of Apocalypse: Western European Art after the First Millennium**

3 cr. Undergraduate/Graduate.

A survey of art and architecture in Western Europe after the year 1,000 until the middle of the twelfth century.

**Prerequisites:** junior standing, or completion of ARTHIST 101(P) or ARTHIST 220(P).

**Course Rules:** Previously ARTHIST 425.

**Last Taught:** Fall 2023, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 323G Age of Apocalypse: Western European Art after the First Millennium**

3 cr. Undergraduate/Graduate.

A survey of art and architecture in Western Europe after the year 1,000 until the middle of the twelfth century.

**Prerequisites:** junior standing, or completion of ARTHIST 101(P) or ARTHIST 220(P).

**Course Rules:** Previously ARTHIST 425.

**Last Taught:** Fall 2023, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 324 Early Christian and Byzantine Art and Architecture**

3 cr. Undergraduate/Graduate.

Art and architecture of Constantinople and vicinity from the fourth to the fifteenth century.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 324G Early Christian and Byzantine Art and Architecture**

3 cr. Undergraduate/Graduate.

Art and architecture of Constantinople and vicinity from the fourth to the fifteenth century.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 325 Early Medieval Art in the West**

3 cr. Undergraduate/Graduate.

Architecture, sculpture, metalwork, and manuscript illumination from c.500-c.1050 C.E. in Ireland, Britain, France, Spain, Germany, Scandinavia, and Northern Italy.

**Prerequisites:** jr st; ArtHist 101(R).

**Last Taught:** Fall 2010, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 325G Early Medieval Art in the West**

3 cr. Undergraduate/Graduate.

Architecture, sculpture, metalwork, and manuscript illumination from c.500-c.1050 C.E. in Ireland, Britain, France, Spain, Germany, Scandinavia, and Northern Italy.

**Prerequisites:** jr st; ArtHist 101(R).

**Last Taught:** Fall 2010, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 326 Chivalry and Spirituality: French Gothic Art and Architecture**

3 cr. Undergraduate/Graduate.

A survey of French art and architecture during the great age of Cathedral building and manuscript illumination.

**Prerequisites:** junior standing; ARTHIST 101(R) or ARTHIST 220(R).

**Course Rules:** Previously ARTHIST 426.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 326G Chivalry and Spirituality: French Gothic Art and Architecture**

3 cr. Undergraduate/Graduate.

A survey of French art and architecture during the great age of Cathedral building and manuscript illumination.

**Prerequisites:** junior standing; ARTHIST 101(R) or ARTHIST 220(R).

**Course Rules:** Previously ARTHIST 426.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 327 Caliphs, Emirs, & Kings: Art & Architecture of Medieval Spain**

3 cr. Undergraduate/Graduate.

Visual arts of the peoples that lived in Al-Andalus (the Arabic name for Muslim Spain) from the 8th to the 15th centuries.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 327G Caliphs, Emirs, & Kings: Art & Architecture of Medieval Spain**

3 cr. Undergraduate/Graduate.

Visual arts of the peoples that lived in Al-Andalus (the Arabic name for Muslim Spain) from the 8th to the 15th centuries.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 328 Frankish Art of the Crusader Period in the Levant**

3 cr. Undergraduate/Graduate.

Chronological survey of the visual and material cultures of the Frankish states of the eastern Mediterranean (corresponding to modern Israel, Palestine, Lebanon, and Syria) from twelfth to thirteenth century.

**Prerequisites:** ARTHIST 101(P); and junior standing or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 328G Frankish Art of the Crusader Period in the Levant**

3 cr. Undergraduate/Graduate.

Chronological survey of the visual and material cultures of the Frankish states of the eastern Mediterranean (corresponding to modern Israel, Palestine, Lebanon, and Syria) from twelfth to thirteenth century.

**Prerequisites:** ARTHIST 101(P); and junior standing or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 329 Late Medieval Art and Architecture**

3 cr. Undergraduate/Graduate.

Church architecture, manuscript illumination, and architectural and figural sculpture from the Gothic era to the rise of the Renaissance.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2010, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 329G Late Medieval Art and Architecture**

3 cr. Undergraduate/Graduate.

Church architecture, manuscript illumination, and architectural and figural sculpture from the Gothic era to the rise of the Renaissance.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2010, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 333 High Renaissance Art in Italy**

3 cr. Undergraduate/Graduate.

The formation of the great style discussed in terms of the attainments of representative artists such as Leonardo da Vinci, Michelangelo, Raphael, and Titian.

**Prerequisites:** jr st.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 333G High Renaissance Art in Italy**

3 cr. Undergraduate/Graduate.

The formation of the great style discussed in terms of the attainments of representative artists such as Leonardo da Vinci, Michelangelo, Raphael, and Titian.

**Prerequisites:** jr st.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 341 Art of the Dutch Golden Age**

3 cr. Undergraduate/Graduate.

The development of art in Flanders and Holland during the seventeenth century, examining the works of artists Rubens, Van Dyck, Rembrandt, Hals, and Vermeer.

**Prerequisites:** jr st.**Last Taught:** Fall 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 341G Art of the Dutch Golden Age**

3 cr. Undergraduate/Graduate.

The development of art in Flanders and Holland during the seventeenth century, examining the works of artists Rubens, Van Dyck, Rembrandt, Hals, and Vermeer.

**Prerequisites:** jr st.**Last Taught:** Fall 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 342 Art and Society in Renaissance Florence**

3 cr. Undergraduate/Graduate.

Masterpieces by artists including Donatello, Piero della Francesca, and Botticelli in concert with Florentine civic discourse on politics, religion, and gender.

**Prerequisites:** jr st.**Last Taught:** Fall 2011, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 342G Art and Society in Renaissance Florence**

3 cr. Undergraduate/Graduate.

Masterpieces by artists including Donatello, Piero della Francesca, and Botticelli in concert with Florentine civic discourse on politics, religion, and gender.

**Prerequisites:** jr st.**Last Taught:** Fall 2011, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 343 Art and Culture of Spain and Latin America, 1500-1750**

3 cr. Undergraduate/Graduate.

Art and culture in Spain and its empire, including Mexico and Peru. Major artists such as El Greco, Velázquez, and Ribera.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 343G Art and Culture of Spain and Latin America, 1500-1750**

3 cr. Undergraduate/Graduate.

Art and culture in Spain and its empire, including Mexico and Peru. Major artists such as El Greco, Velázquez, and Ribera.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 349 American Postmodernism 1960-2000**

3 cr. Undergraduate/Graduate.

Critical survey of Pop, Op, Kinetic, Systemic, Minimal, Colorfield, New-Realism, Antiform, Earthworks, Conceptual, and other avant-garde movements.

**Prerequisites:** ArtHist 102(P)**Last Taught:** Fall 2016, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 349G American Postmodernism 1960-2000**

3 cr. Undergraduate/Graduate.

Critical survey of Pop, Op, Kinetic, Systemic, Minimal, Colorfield, New-Realism, Antiform, Earthworks, Conceptual, and other avant-garde movements.

**Prerequisites:** ArtHist 102(P)**Last Taught:** Fall 2016, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 353 American Art: Colonial Period - 1870**

3 cr. Undergraduate/Graduate.

Architecture, painting, sculpture, and decorative arts of colonial America through the civil war period with emphasis on their aesthetic and social contexts.

**Prerequisites:** jr st.**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 353G American Art: Colonial Period - 1870**

3 cr. Undergraduate/Graduate.

Architecture, painting, sculpture, and decorative arts of colonial America through the civil war period with emphasis on their aesthetic and social contexts.

**Prerequisites:** jr st.**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ARTHIST 354 American Art: 1870 - Present**

3 cr. Undergraduate/Graduate.

Painting, sculpture, and the decorative arts from 1870 to the present with emphasis on their aesthetic and social contexts.

**Prerequisites:** jr st.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 354G American Art: 1870 - Present**

3 cr. Undergraduate/Graduate.

Painting, sculpture, and the decorative arts from 1870 to the present with emphasis on their aesthetic and social contexts.

**Prerequisites:** jr st.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 355 American Folk Art**

3 cr. Undergraduate/Graduate.

Survey of American folk art from colonization to the present. Emphasis on major styles and themes, regional developments, and relationship to the fine arts.

**Prerequisites:** jr st.

**Last Taught:** Spring 2017, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 355G American Folk Art**

3 cr. Undergraduate/Graduate.

Survey of American folk art from colonization to the present. Emphasis on major styles and themes, regional developments, and relationship to the fine arts.

**Prerequisites:** jr st.

**Last Taught:** Spring 2017, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 356 American Architecture**

3 cr. Undergraduate/Graduate.

Architecture in the United States from its beginnings in the 17th century to its absorption into international Modernism at the time of World War II. **Prerequisites:** junior standing; ARTHIST 102(P), ARTHIST 103(P), or consent of instructor.

**Course Rules:** Previously ARTHIST 459.

**Last Taught:** Spring 2015, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 356G American Architecture**

3 cr. Undergraduate/Graduate.

Architecture in the United States from its beginnings in the 17th century to its absorption into international Modernism at the time of World War II.

**Prerequisites:** junior standing; ARTHIST 102(P), ARTHIST 103(P), or consent of instructor.

**Course Rules:** Previously ARTHIST 459.

**Last Taught:** Spring 2015, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 357 Rococo to Revolution: European Art, 1750-1850**

3 cr. Undergraduate/Graduate.

History of European art and visual culture from 1750 to 1850.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 357G Rococo to Revolution: European Art, 1750-1850**

3 cr. Undergraduate/Graduate.

History of European art and visual culture from 1750 to 1850.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 358 Realism to Post-Impressionism: European Art, 1850-1900**

3 cr. Undergraduate/Graduate.

Artistic developments including Realism, Impressionism, Post-Impressionism, Symbolism, and Art Nouveau; the modern art museum, the rise of the art market, the impact of global encounters, and new media (e.g. photography, film).

**Prerequisites:** junior standing.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 358G Realism to Post-Impressionism: European Art, 1850-1900**

3 cr. Undergraduate/Graduate.

Artistic developments including Realism, Impressionism, Post-Impressionism, Symbolism, and Art Nouveau; the modern art museum, the rise of the art market, the impact of global encounters, and new media (e.g. photography, film).

**Prerequisites:** junior standing.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 364 Modernism and the Avant-Garde, 1900-1960**

3 cr. Undergraduate/Graduate.

Overview of the major movements of this period (e.g., Fauvism, Expressionism, Cubism, Dada, Surrealism, Pop Art) within a historical, political, and social context.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 364G Modernism and the Avant-Garde, 1900-1960**

3 cr. Undergraduate/Graduate.

Overview of the major movements of this period (e.g., Fauvism, Expressionism, Cubism, Dada, Surrealism, Pop Art) within a historical, political, and social context.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 365 History of Photography**

3 cr. Undergraduate/Graduate.

A survey of photography from its inception in 1826 to the present.

Topics include stylistic and technological evolution, cultural impact, and aesthetic considerations of photography.

**Prerequisites:** jr st; ArtHist 102(R) or 357(R).

**Last Taught:** Spring 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 365G History of Photography**

3 cr. Undergraduate/Graduate.

A survey of photography from its inception in 1826 to the present.

Topics include stylistic and technological evolution, cultural impact, and aesthetic considerations of photography.

**Prerequisites:** jr st; ArtHist 102(R) or 357(R).

**Last Taught:** Spring 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 366 German Painting, 1800-1933**

3 cr. Undergraduate/Graduate.

Major German painters from Runge to Beckmann. Romantic art theory, landscape, Expressionism, and 'Neve Sachlichkeit.'

**Prerequisites:** jr st.**Last Taught:** Spring 2011, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 366G German Painting, 1800-1933**

3 cr. Undergraduate/Graduate.

Major German painters from Runge to Beckmann. Romantic art theory, landscape, Expressionism, and 'Neve Sachlichkeit.'

**Prerequisites:** jr st.**Last Taught:** Spring 2011, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 367 Latin American Modernisms**

3 cr. Undergraduate/Graduate.

Modernist developments in Latin American art, circa 1900 to circa 1960.

National and regional histories and artistic trajectories; relationships between European and Latin American modernisms.

**Prerequisites:** jr st.**Last Taught:** Spring 2009, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 367G Latin American Modernisms**

3 cr. Undergraduate/Graduate.

Modernist developments in Latin American art, circa 1900 to circa 1960.

National and regional histories and artistic trajectories; relationships between European and Latin American modernisms.

**Prerequisites:** jr st.**Last Taught:** Spring 2009, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 368 History of Modern Design**

3 cr. Undergraduate/Graduate.

An investigation of the craft or decorative arts—specially furniture, ceramics, glass, metalwork, and textiles—from the Great Exhibition of 1851 to the present.

**Prerequisites:** jr st.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 368G History of Modern Design**

3 cr. Undergraduate/Graduate.

An investigation of the craft or decorative arts—specially furniture, ceramics, glass, metalwork, and textiles—from the Great Exhibition of 1851 to the present.

**Prerequisites:** jr st.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 369 Introduction to Contemporary Art**

3 cr. Undergraduate/Graduate.

Legacies of Minimalism and Conceptual Art on global contemporary art movements such as site-specific art, earth and land art, institutional critique, body and performance art.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of ArtHist 470 w/same topic.**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 369G Introduction to Contemporary Art**

3 cr. Undergraduate/Graduate.

Legacies of Minimalism and Conceptual Art on global contemporary art movements such as site-specific art, earth and land art, institutional critique, body and performance art.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of ArtHist 470 w/same topic.**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 370 Trends in Contemporary Architecture**

3 cr. Undergraduate/Graduate.

Current trends in architectural practice, focusing on organic and animate built forms, as well as modular and portable structures within performative, digital, and visual architecture.

**Prerequisites:** jr st.**Last Taught:** Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 370G Trends in Contemporary Architecture**

3 cr. Undergraduate/Graduate.

Current trends in architectural practice, focusing on organic and animate built forms, as well as modular and portable structures within performative, digital, and visual architecture.

**Prerequisites:** jr st.**Last Taught:** Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 371 African Art**

3 cr. Undergraduate/Graduate.

Art of the indigenous peoples of different sections of Africa, with consideration of both aesthetic qualities and the social context of the art.

**Prerequisites:** jr st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 371G African Art**

3 cr. Undergraduate/Graduate.

Art of the indigenous peoples of different sections of Africa, with consideration of both aesthetic qualities and the social context of the art.

**Prerequisites:** jr st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 372 Art of the Inca and their Ancestors**

3 cr. Undergraduate/Graduate.

Native arts of South America before European contact; emphasis on artistic developments in the Andean region.

**Prerequisites:** jr st.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 372G Art of the Inca and their Ancestors**

3 cr. Undergraduate/Graduate.

Native arts of South America before European contact; emphasis on artistic developments in the Andean region.

**Prerequisites:** jr st.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 373 Art of Ancient Mexico and Central America**

3 cr. Undergraduate/Graduate.

Arts of ancient Mexico and Central America; emphasis on the Olmec, the Maya, and the Aztecs.

**Prerequisites:** jr st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 373G Art of Ancient Mexico and Central America**

3 cr. Undergraduate/Graduate.

Arts of ancient Mexico and Central America; emphasis on the Olmec, the Maya, and the Aztecs.

**Prerequisites:** jr st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 375 Art of the Aztec Empire**

3 cr. Undergraduate/Graduate.

Comprehensive introduction to the art of the Aztec Empire, including architecture, monumental sculpture, small-scale sculpture, ceramics, painting, lapidary work, goldwork, and featherwork.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of ArtHist 499 with same subtitle.**Last Taught:** Spring 2008, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 375G Art of the Aztec Empire**

3 cr. Undergraduate/Graduate.

Comprehensive introduction to the art of the Aztec Empire, including architecture, monumental sculpture, small-scale sculpture, ceramics, painting, lapidary work, goldwork, and featherwork.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of ArtHist 499 with same subtitle.**Last Taught:** Spring 2008, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 376 History and Theory of New Media Art**

3 cr. Undergraduate/Graduate.

The history and critical theory of new media artworks, focusing on artists who utilize interactive technologies.

**Prerequisites:** junior standing.**Course Rules:** Previously ARTHIST 472.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 376G History and Theory of New Media Art**

3 cr. Undergraduate/Graduate.

The history and critical theory of new media artworks, focusing on artists who utilize interactive technologies.

**Prerequisites:** junior standing.**Course Rules:** Previously ARTHIST 472.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 377 Art and Performance**

3 cr. Undergraduate/Graduate.

Intersections between art and performance, beginning in the 1960s, and including performance and body art, live art, dance, and participatory or relational post-studio art practice.

**Prerequisites:** junior standing.**Course Rules:** Previously ARTHIST 473.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 377G Art and Performance**

3 cr. Undergraduate/Graduate.

Intersections between art and performance, beginning in the 1960s, and including performance and body art, live art, dance, and participatory or relational post-studio art practice.

**Prerequisites:** junior standing.**Course Rules:** Previously ARTHIST 473.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 380 Chinese Painting**

3 cr. Undergraduate/Graduate.

Major developments in Chinese painting from 6 B.C.E. to the modern period, including landscapes, figures, flowers-and-birds, and calligraphy.

**Prerequisites:** junior standing.**Course Rules:** Previously ARTHIST 480.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 380G Chinese Painting**

3 cr. Undergraduate/Graduate.

Major developments in Chinese painting from 6 B.C.E. to the modern period, including landscapes, figures, flowers-and-birds, and calligraphy.

**Prerequisites:** junior standing.**Course Rules:** Previously ARTHIST 480.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 381 Honors Seminar:**

3 cr. Undergraduate.

Specific topics vary.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.**Course Rules:** May be retaken with change in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 382 Chinese Art and Architecture**

3 cr. Undergraduate/Graduate.

Chinese bronzes, jades, painting, sculpture, and architecture from the Neolithic (5000 B.C.E.) to the modern period, including Buddhist, Daoist, Confucianist, and Communist art.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 382G Chinese Art and Architecture**

3 cr. Undergraduate/Graduate.

Chinese bronzes, jades, painting, sculpture, and architecture from the Neolithic (5000 B.C.E.) to the modern period, including Buddhist, Daoist, Confucianist, and Communist art.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 383 Japanese Art and Architecture**

3 cr. Undergraduate/Graduate.

Japanese temples, shrines, paintings, prints, and crafts from the Neolithic to the modern period, including films, Zen art, and the tea ceremony.

**Prerequisites:** jr st.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 383G Japanese Art and Architecture**

3 cr. Undergraduate/Graduate.

Japanese temples, shrines, paintings, prints, and crafts from the Neolithic to the modern period, including films, Zen art, and the tea ceremony.

**Prerequisites:** jr st.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 384 Art and Immortality in Ancient China**

3 cr. Undergraduate/Graduate.

In-depth study of art related to immortality created for nobles and commoners of Ancient China, according to the most recent archeological excavations.

**Prerequisites:** junior standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 384G Art and Immortality in Ancient China**

3 cr. Undergraduate/Graduate.

In-depth study of art related to immortality created for nobles and commoners of Ancient China, according to the most recent archeological excavations.

**Prerequisites:** junior standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 386 Art, Ritual, and Ethnicity of China**

3 cr. Undergraduate/Graduate.

In depth introduction to the ethnic arts and religions of China; architecture, painting, film, and religious ceremonies of Daoism, Buddhism, and Dongba.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 386G Art, Ritual, and Ethnicity of China**

3 cr. Undergraduate/Graduate.

In depth introduction to the ethnic arts and religions of China; architecture, painting, film, and religious ceremonies of Daoism, Buddhism, and Dongba.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 387 Buddhist Art and Architecture**

3 cr. Undergraduate/Graduate.

Buddhist arts and architectures of India, central Asia, China, Korea, Japan, and southeast Asia. Emphasis on Tibetan art.

**Prerequisites:** jr st.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 387G Buddhist Art and Architecture**

3 cr. Undergraduate/Graduate.

Buddhist arts and architectures of India, central Asia, China, Korea, Japan, and southeast Asia. Emphasis on Tibetan art.

**Prerequisites:** jr st.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 412 Cities and Sanctuaries of Ancient Greece**

3 cr. Undergraduate/Graduate.

Development of Greek urban and religious architecture from Archaic through Hellenistic times. The growth of such centers as Athens, Delphi, Olympia, Paestum, Priene, and Pergamon.

**Prerequisites:** jr st.**Last Taught:** Fall 2007, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 412G Cities and Sanctuaries of Ancient Greece**

3 cr. Undergraduate/Graduate.

Development of Greek urban and religious architecture from Archaic through Hellenistic times. The growth of such centers as Athens, Delphi, Olympia, Paestum, Priene, and Pergamon.

**Prerequisites:** jr st.**Last Taught:** Fall 2007, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 413 Greek Sculpture**

3 cr. Undergraduate/Graduate.

Development of sculpture from the Geometric Period through the Hellenistic age. All forms of sculpture considered, not just freestanding works.

**Prerequisites:** jr st.**Last Taught:** Fall 2008, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 413G Greek Sculpture**

3 cr. Undergraduate/Graduate.

Development of sculpture from the Geometric Period through the Hellenistic age. All forms of sculpture considered, not just freestanding works.

**Prerequisites:** jr st.**Last Taught:** Fall 2008, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 431 Renaissance Architecture in Italy**

3 cr. Undergraduate/Graduate.

Florentine and other Italian architecture in the fifteenth and sixteenth centuries; such artists as Brunelleschi, Alberti, Bramante, Leonardo da Vinci, Michelangelo, and Palladio.

**Prerequisites:** jr st.**Last Taught:** Fall 2009, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 431G Renaissance Architecture in Italy**

3 cr. Undergraduate/Graduate.

Florentine and other Italian architecture in the fifteenth and sixteenth centuries; such artists as Brunelleschi, Alberti, Bramante, Leonardo da Vinci, Michelangelo, and Palladio.

**Prerequisites:** jr st.**Last Taught:** Fall 2009, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 447 Topics in Early Modern Art:**

3 cr. Undergraduate/Graduate.

Key themes, genres, and artists in European art from the fourteenth through the seventeenth centuries. Themes may include gender, politics, and religion.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 447G Topics in Early Modern Art:**

3 cr. Undergraduate/Graduate.

Key themes, genres, and artists in European art from the fourteenth through the seventeenth centuries. Themes may include gender, politics, and religion.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 458 A Comparative History of Architecture and Urbanism:**

3 cr. Undergraduate/Graduate.

Physical history of contrasting cities, concentrating on architectural development of all types: institutional, commercial, industrial, residential, and recreational. Emphasizes historical context as well as formal development.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2005, Spring 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 458G A Comparative History of Architecture and Urbanism:**

3 cr. Undergraduate/Graduate.

Physical history of contrasting cities, concentrating on architectural development of all types: institutional, commercial, industrial, residential, and recreational. Emphasizes historical context as well as formal development.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2005, Spring 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 462 Frank Lloyd Wright**

3 cr. Undergraduate/Graduate.

The work of America's and Wisconsin's best-known architect presented in its historical, cultural and philosophical contexts.

**Prerequisites:** jr st; one of the following courses recom: ArtHist 102(R), 359(R), 360(R), 459(R).

**Last Taught:** Fall 2017, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 462G Frank Lloyd Wright**

3 cr. Undergraduate/Graduate.

The work of America's and Wisconsin's best-known architect presented in its historical, cultural and philosophical contexts.

**Prerequisites:** jr st; one of the following courses recom: ArtHist 102(R), 359(R), 360(R), 459(R).

**Last Taught:** Fall 2017, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 463 Cubism and its Inheritance**

3 cr. Undergraduate/Graduate.

The development of Cubism by Picasso and Braque and its progeny in Paris, in futuristic Italy, and in constructivist Russia.

**Prerequisites:** jr st.

**Last Taught:** Spring 2017, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 463G Cubism and its Inheritance**

3 cr. Undergraduate/Graduate.

The development of Cubism by Picasso and Braque and its progeny in Paris, in futuristic Italy, and in constructivist Russia.

**Prerequisites:** jr st.

**Last Taught:** Spring 2017, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 465 Dada and Surrealist Art**

3 cr. Undergraduate/Graduate.

Two major twentieth-century art movements; their sources, major proponents, and later influence; Duchamp, De Chirico, Ernst, Giacometti, Picasso, Miro, Magritte, Dali.

**Prerequisites:** jr st.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 465G Dada and Surrealist Art**

3 cr. Undergraduate/Graduate.

Two major twentieth-century art movements; their sources, major proponents, and later influence; Duchamp, De Chirico, Ernst, Giacometti, Picasso, Miro, Magritte, Dali.

**Prerequisites:** jr st.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 469 American Artists Revealed:**

3 cr. Undergraduate/Graduate.

Focus on prominent 19th and 20th century American master artists working in various genres and formal approaches.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2017, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 469G American Artists Revealed:**

3 cr. Undergraduate/Graduate.

Focus on prominent 19th and 20th century American master artists working in various genres and formal approaches.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2017, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 470 Topics in American Art:**

3 cr. Undergraduate/Graduate.

In-depth examination of important themes, genres, or subgroups in the evolution of American art.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 470G Topics in American Art:**

3 cr. Undergraduate/Graduate.

In-depth examination of important themes, genres, or subgroups in the evolution of American art.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 471 Topics in Contemporary Art:**

3 cr. Undergraduate.

Art from the 1960s to the present.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 474 Maya Art**

3 cr. Undergraduate/Graduate.

Ancient Maya art, with emphasis on the Classic Period florescence, its development, and major themes.

**Prerequisites:** jr st.**Last Taught:** Fall 2012, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 474G Maya Art**

3 cr. Undergraduate/Graduate.

Ancient Maya art, with emphasis on the Classic Period florescence, its development, and major themes.

**Prerequisites:** jr st.**Last Taught:** Fall 2012, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 481 Topics in Chinese Art:**

1-3 cr. Undergraduate/Graduate.

In-depth examination of important themes, genres, or subgroups in the evolution of Chinese art.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Spring 2016, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 481G Topics in Chinese Art:**

1-3 cr. Undergraduate/Graduate.

In-depth examination of important themes, genres, or subgroups in the evolution of Chinese art.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Spring 2016, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 482 Topics in Non-Western Art:**

3 cr. Undergraduate/Graduate.

In-depth examination of major themes, genres, or regional sub-groups within the field of non-western art.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Spring 2015, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 482G Topics in Non-Western Art:**

3 cr. Undergraduate/Graduate.

In-depth examination of major themes, genres, or regional sub-groups within the field of non-western art.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Spring 2015, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 489 Internship in Art History, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of art history in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in ArtHist; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Last Taught:** Spring 2013, Fall 2012, Summer 2012, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** UWinterIM 2024, Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** UWinterIM 2024, Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** junior standing; additional prerequisites may be assigned to specific topic.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2022, Spring 2015, Fall 2007, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 501 Colloquium in Method and Theory**

3 cr. Undergraduate.

An undergraduate research seminar in various aspects of the history of art, with papers presented by students.

**Prerequisites:** jr st; declared Art History major; cons instr.**Course Rules:** Satisfies L&S research req.**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 603 The Art Museum: History, Theory, Practice**

3 cr. Undergraduate/Graduate.

Directed readings and discussion on the history and cultural practices of the art museum, in conjunction with museum studies and new museum theory.

**Prerequisites:** junior standing or graduate standing.**Course Rules:** No credit for students with credit in ARTHIST 703.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 603G The Art Museum: History, Theory, Practice**

3 cr. Undergraduate/Graduate.

Directed readings and discussion on the history and cultural practices of the art museum, in conjunction with museum studies and new museum theory.

**Prerequisites:** junior standing or graduate standing.

**Course Rules:** No credit for students with credit in ARTHIST 703.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 691 Art Museum Internship**

3 cr. Undergraduate.

Supervised practical experience in local art museums arranged on individual basis. Introduction to curatorial and/or administrative duties; 'hands on' treatment of works of art.

**Prerequisites:** jr st; at least 6 cr Arthist at the 300 level or above & cons internship coord.

**Course Rules:** May be retaken for 3 additional cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 699 Independent Study**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of an Arthist faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept chair.

**Prerequisites:** jr st; 2.0 GPA; consent of constructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2021, Spring 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 700 Proseminar in Art History**

3 cr. Graduate.

Historiography and methodology of art history.

**Prerequisites:** grad st or cons instr

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 703 Introduction to Art Museum Studies I**

3 cr. Graduate.

History and theory of the art museum; emphasis on the discourse of the modern museum, and selected issues in contemporary exhibition and display.

**Prerequisites:** graduate standing.

**Course Rules:** No credit for students with credit in ARTHIST 603. Course fee may be assessed.

**Last Taught:** Fall 2023, Spring 2022, Spring 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 704 Introduction to Art Museum Studies II**

3 cr. Graduate.

Methodologies and technologies of art museum work, including collection management, exhibition organization, catalogue production, and educational programming.

**Prerequisites:** graduate standing.

**Course Rules:** Course fee may be assessed.

**Last Taught:** Fall 2022, Spring 2021, Spring 2019, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 710 Colloquium in Ancient Art and Archaeology:**

3 cr. Graduate.

Directed readings and discussions on topics in the arts of Greece, Rome, Egypt, or the near east. Emphasis on scholarly source materials and methodological approaches.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Last Taught:** Fall 2023, Spring 2020, Spring 2017, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 720 Colloquium in Medieval Art/Architecture:**

3 cr. Graduate.

Directed readings and discussions on topics in early Christian Byzantine and western medieval art and architecture. Emphasis on scholarly source material and methodological approaches.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Last Taught:** Fall 2021, Fall 2018, Spring 2015, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 730 Colloquium in Renaissance/Baroque Art/Architecture:**

3 cr. Graduate.

Directed readings and discussions on topics in the arts of the renaissance and/or baroque periods. Emphasis on scholarly source material and methodology. Specific topic and any additional prerequisites will be announced in the schedule of

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2023, Spring 2018, Spring 2016, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 740 Colloquium in Latin American Art:**

3 cr. Graduate.

Directed readings, critical discussions, and short written reports on topics in Latin American art, 1492 to the present. Emphasis on scholarly sources and methodological approaches.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 750 Colloquium in American Art:**

3 cr. Graduate.

Directed readings, critical discussions, and short written reports on topics in American art 1600-present. Emphasis on scholarly sources and methodological approaches. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2022, Spring 2019, Fall 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ARTHIST 760 Colloquium in Modern Art/Architecture:**

3 cr. Graduate.

Directed readings, critical discussions, and short written reports on topics in modern art/architecture 1800-present. Emphasis on scholarly sources and methodological approaches. Specific topic and any additional prerequisites will be announced in the schedule of classes

**Prerequisites:** graduate standing.**Course Rules:** Retakable with change in topic to 9 cr max.**Last Taught:** Fall 2020, Spring 2020, Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 761 Colloquium in Film History, Theory, Criticism:**

3 cr. Graduate.

Readings in contemporary historiography and theory methodologies. Application of criticism to films and periods. 12 essays, 1 paper. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2015, Fall 2012, Spring 2010, Fall 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 770 Colloquium in Non-Western Art:**

3 cr. Graduate.

Problems in the traditional arts of pre-Columbian America, Africa, and Oceania. Develops methodological skills in art history through the exploration of art in non-western societies. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2022, Fall 2020, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2021, Fall 2020, Spring 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 890 Independent Field Study**

1-3 cr. Graduate.

Independent research in local archives, on local monuments, or on archaeological expeditions.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2020, Spring 2016, Fall 2012, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 891 Art Museum Internship**

3 cr. Graduate.

Supervised practical experience in local art museums arranged on individual basis. Introduction to curatorial and/or administrative duties; 'hands on' treatment of works of art.

**Prerequisites:** grad st; at least 6 cr in ArtHist at grad level & cons internship coord.**Course Rules:** Retakable to 6 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 901 Problems in Art History:**

3 cr. Graduate.

Selected problems in art historical scholarship. Students will research scholarly problems in depth and present the results in both oral and written form. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st; one 700-level colloquium in ArtHist & cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2005, Spring 2005, Spring 2004, Spring 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 990 Thesis Research**

3-6 cr. Graduate.

**Prerequisites:** grad st & writ cons grad advisor or instr.**Course Rules:** Retakable to 6 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 991 Thesis Exhibition**

3-6 cr. Graduate.

Organization and installation of an art exhibition.

**Prerequisites:** grad st; ArtHist 700(P); writ cons grad advisor or instr.**Course Rules:** Retakable to 6 cr max.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ARTHIST 999 Reading and Research**

1-3 cr. Graduate.

Advanced independent research. For information, consult department chair.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Astronomy (ASTRON)

**ASTRON 103 Survey of Astronomy**

3 cr. Undergraduate.

History of astronomy; planets; stellar evolution, nucleosynthesis; death of stars: white dwarfs, neutron stars, black holes; galaxies and quasars; expansion of the universe, dark matter; the big bang.

**Prerequisites:** math placement level 10.**General Education Requirements:** NS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ASTRON 104 Astronomy Laboratory**

1 cr. Undergraduate.

Observations of planets, stars, stellar clusters, and galaxies; related experiments. Correlated with Astron 103.

**Prerequisites:** Astron 103(C) or Astron 211(C).**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ASTRON 175 Cosmic Origins**

3 cr. Undergraduate.

The Big Bang and early universe, stars and star formation, formation of the solar system; geologic and climate history of Earth and the origin and evolution of life; exoplanets and searches for extraterrestrial life.

**Prerequisites:** math placement level 10.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Fall 1995, Fall 1993, Fall 1992.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ASTRON 185 Astronomy for Pre-Education Majors**

3 cr. Undergraduate.

Space: how we know and what we know; the solar system, stars, galaxies, and the universe. 2 hrs lec, lab.

**Prerequisites:** none.

**General Education Requirements:** NS+

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ASTRON 194 First-Year Seminar.**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** NS

**Last Taught:** Spring 2006, Fall 2001, Spring 2001, Fall 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ASTRON 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ASTRON 211 Principles of Astronomy**

3 cr. Undergraduate.

Light and matter; planets; stellar evolution, nucleosynthesis; death of stars; white dwarfs, neutron stars, black holes; galaxies, quasars; expansion of universe, dark matter; big bang.

**Prerequisites:** Physics 120(P) or 209(P) or cons instr.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ASTRON 289 Internship in Astronomy, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in astron; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ASTRON 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Last Taught:** Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ASTRON 400 Astrophysics I**

3 cr. Undergraduate.

Introductory astrophysics for students with junior-/senior-level background in mathematics and physics. Light and matter; stars and the sun; extrasolar planets; compact objects.

**Prerequisites:** Astron 103(P) or 211(P) or cons instr; Physics 309(P); Physics 317(R) recom.

**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ASTRON 401 Astrophysics II**

3 cr. Undergraduate.

Continuation of Astron 400; for students with junior-/senior-level background in mathematics and physics. The Milky Way Galaxy; galactic evolution; structure of the Universe; cosmology.

**Prerequisites:** Astron 400(300)(P).

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ASTRON 489 Internship in Astronomy, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of astronomy in a research, business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in astron; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ASTRON 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Athletic Training (ATRAIN)

**ATRAIN 296 Undergraduate Research**

1-3 cr. Undergraduate.

Undergraduate research under the direction of Faculty in the Athletic Training Program.

**Prerequisites:** consent of instructor.

**Course Rules:** Repeatable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 599 Independent Study I**

1-6 cr. Undergraduate/Graduate.

Advanced undergraduate or beginning graduate independent study in Athletic Training.

**Prerequisites:** junior standing or graduate standing, and consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 599G Independent Study I**

1-6 cr. Undergraduate/Graduate.

Advanced undergraduate or beginning graduate independent study in Athletic Training.

**Prerequisites:** junior standing or graduate standing, and consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 701 Athletic Training Foundational Skills**

1 cr. Graduate.

Use and application of taping, wrapping, bracing, and splinting procedures for the prevention and treatment of musculoskeletal injuries.

**Prerequisites:** graduate standing and MSAT student in good standing; or consent of instructor.

**Course Rules:** Previously PRPP 701.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 702 Ethics in Healthcare**

1 cr. Graduate.

Ethical theory and morality with application to healthcare professions.

**Prerequisites:** graduate standing and MSAT student in good standing; or consent of instructor.

**Course Rules:** Previously PRPP 702.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 703 Foundations of Interprofessional Practice**

1 cr. Graduate.

Introductory knowledge of interprofessional teamwork of health care professionals within the health care system.

**Prerequisites:** graduate standing; good standing in MSAT or DPT program; or consent of instructor.

**Course Rules:** Previously PRPP 703. ATRIN 703 and PT 760 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 704 Professionalism and Leadership in Healthcare**

1 cr. Graduate.

Advanced application of professionalism and leadership skills and behaviors with a focus on transition to independent practice.

**Prerequisites:** graduate standing and MSAT student in good standing; or consent of instructor.

**Course Rules:** Previously PRPP 704.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 705 Athletic Training Practice Based Research I**

2 cr. Graduate.

Research methodology course with emphasis on the use of clinical research to determine best practice.

**Prerequisites:** good standing in MSAT program; or consent of instructor.

**Course Rules:** Previously PRPP 705.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 706 Athletic Training Practice Based Research II**

1 cr. Graduate.

Applications of case based and point-of-care research in athletic training.

**Prerequisites:** graduate standing and good standing in MSAT; or consent of instructor.

**Course Rules:** Repeatable to 2 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 708 Clinical Gait Analysis**

2 cr. Graduate.

Instrumented and observational gait analysis techniques and discussion of the theoretical background of normal and abnormal gait with application to clinical examples.

**Prerequisites:** graduate standing; good standing in MSAT or DPT program; or consent of instructor.

**Course Rules:** Previously PRPP 708.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 710 Prevention & Care of Emergent Medical Conditions in Athletic Training**

4 cr. Graduate.

Introduction to athletic training knowledge and skills to prevent and manage medical emergencies.

**Prerequisites:** graduate standing; good standing in MSAT or DPT program; or consent of instructor.

**Course Rules:** Previously PRPP 710.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 723 Physiological Regulation in Exertion & Disease**

3 cr. Graduate.

Overview of the physiological basis of activity.

**Prerequisites:** graduate standing and good standing in DPT program or consent of instructor.

**Course Rules:** ATRIN 723 and PT 723 are jointly offered and count as repeats of one another. Previously PRPP 736.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 725 Gross Anatomical Kinesiology**

3-4 cr. Graduate.

Anatomical analysis of human body function, including cadaver dissection.

**Prerequisites:** graduate standing; good standing in the MSOT, MSAT, or MS Kinesiology program; or consent of instructor.

**Course Rules:** Previously PRPP 725.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 726 Pathoetiology of Musculoskeletal Injury**

1 cr. Graduate.

Examination of tissue structure, biomechanics, injury, pathology and healing.

**Prerequisites:** good standing in DPT or MSAT program; or graduate student status and consent of instructor.

**Course Rules:** Counts as repeat of KIN 590 with similar title. Previously ATRAIN 521 and PRPP 521.

**Last Taught:** Summer 2023, Summer 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 744 Organizational Competencies in Athletic Training**

3 cr. Graduate.

Practice of management skills in athletic training consistent with practice in the U.S. health care system and current practice environments.

**Prerequisites:** graduate standing and MSAT student in good standing; or consent of instructor.

**Course Rules:** Previously PRPP 744.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 745 Administrative Management in Athletic Training**

2 cr. Graduate.

Leadership and management topics in athletic training.

**Prerequisites:** graduate standing and good standing in MSAT program.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 747 Clinical Exam and Diagnosis of the Lower Extremity in Athletic Training**

3 cr. Graduate.

Knowledge and skills to examine, treat, prevent, and rehabilitate activity-related injuries and pathologies of the lower extremity.

**Prerequisites:** graduate standing; good standing in MSAT program; or consent of instructor.

**Course Rules:** Previously PRPP 747.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 748 Clinical Exam and Diagnosis of the Head and Spine in Athletic Training**

3 cr. Graduate.

Knowledge and skills to examine, treat, prevent, and rehabilitate activity-related injuries and pathologies of the head, spine and pelvis.

**Prerequisites:** graduate standing; good standing in MSAT program; or consent of instructor.

**Course Rules:** Previously PRPP 748.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 749 Clinical Exam and Diagnosis of Upper Extremity in Athletic Training**

3 cr. Graduate.

Knowledge and skills to examine, treat, prevent, and rehabilitate activity-related injury and pathology of the upper extremity.

**Prerequisites:** graduate standing; good standing in MSAT program; or consent of instructor.

**Course Rules:** Previously PRPP 749.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 753 Medical Physiology II**

3 cr. Graduate.

Pathologies and pharmacologic agents related to rehabilitation in physical therapy practice and/or athletic training setting.

**Prerequisites:** graduate standing; good standing in MSAT or DPT program; or consent of instructor.

**Course Rules:** Previously PRPP 753. ATRAIN 753 and PT 722 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 754 Clinical Exam and Diagnosis of Medical Conditions in Athletic Training**

1 cr. Graduate.

Knowledge and skills to examine, treat, and refer general medical conditions common in physically active individuals.

**Prerequisites:** graduate standing; good standing in MSAT program; or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 757 Foundations of Therapeutic Interventions in Athletic Training**

3 cr. Graduate.

Knowledge, skill and science of injury prevention, rehabilitation, and performance in sport and physical activity; focused on the lower extremity.

**Prerequisites:** graduate standing; good standing in MSAT or DPT program; or consent of instructor.

**Course Rules:** Previously PRPP 757.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 758 Physical Agents**

2 cr. Graduate.

The physiological basis, scientific rationale for, and clinical application of thermal, electrophysiology/electrotherapy and electromagnetic physical agents.

**Prerequisites:** graduate standing; good standing in MSAT or DPT program; or consent of instructor.

**Course Rules:** Previously PRPP 758. ATRAIN 758 and PT 704 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 759 Advanced Therapeutic Interventions**

3 cr. Graduate.

Knowledge, skill and science of injury prevention, rehabilitation, and performance in sport and physical activity; focused on the upper extremity along with advanced rehabilitation techniques.

**Prerequisites:** graduate standing and good standing in MSAT; or consent of instructor.

**Course Rules:** Previously PRPP 759.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 785 Clinical Education in Athletic Training: I**

1 cr. Graduate.

Introductory field practicum experience with an emphasis on application of clinical skills and behaviors related to prevention and care of emergent medical conditions.

**Prerequisites:** graduate standing; good standing in MSAT program.

**Course Rules:** Previously PRPP 785.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 786 Clinical Education in Athletic Training: II**

2 cr. Graduate.

Intermediate field practicum experience with an emphasis on application of clinical skills and behaviors related to examination and treatment of injury and pathology of the lower extremity.

**Prerequisites:** graduate standing; good standing in MSAT program.

**Course Rules:** Previously PRPP 786.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 787 Clinical Education in Athletic Training: III**

2 cr. Graduate.

Intermediate field practicum experience with an emphasis on application of clinical skills and behaviors related to examination and treatment of injury and pathology of the head, spine, and pelvis.

**Prerequisites:** graduate standing; good standing in MSAT program.

**Course Rules:** Previously PRPP 787.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 788 Clinical Education in Athletic Training: IV**

2 cr. Graduate.

Advanced field practicum experience with an emphasis on application of clinical skills and behaviors related to examination and treatment of musculoskeletal injuries to the upper extremity.

**Prerequisites:** graduate standing and good standing in MSAT program.

**Course Rules:** Previously PRPP 788.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 790 Advanced Topics in Athletic Training**

1-3 cr. Graduate.

Specific topic is announced in the Schedule of Classes each semester the course is offered.

**Prerequisites:** graduate standing; good standing in MSAT program; or consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 799 Independent Study II**

1-6 cr. Graduate.

Intermediate level independent study under the direction of Athletic Training faculty.

**Prerequisites:** graduate standing.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Spring 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 800 Athletic Training Board of Certification Exam Preparation**

2 cr. Graduate.

Provides athletic training students with a systematic roadmap for independent preparation for the Board of Certification for the Athletic Trainer Exam (BOC Exam).

**Prerequisites:** graduate standing and good standing in MSAT program; or special student and consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 883 Capstone Clinical Education in Athletic Training**

6 cr. Graduate.

Capstone field practicum experience with an emphasis on application of clinical skills and behaviors related to athletic training practice.

**Prerequisites:** graduate standing; good standing in MSAT program.

**Course Rules:** Must be taken twice for a total of 12 cr. Previously PRPP 883.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 888 Candidate for Degree**

0 cr. Graduate.

Available for students who have completed all credit requirements and who need to enroll to complete other graduation requirements.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 890 Research and Thesis**

1-6 cr. Graduate.

Production of a thesis under the supervision of the student's major professor with the consultation of the degree committee.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 895 Capstone**

1-6 cr. Graduate.

Production of a capstone project the supervision of the student's major professor.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 6 cr max. Satisfactory/Unsatisfactory only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 900 Teaching, Learning and Educational Leadership in the Health Sciences**

3 cr. Graduate.

Overview of higher education in the health sciences and the responsibilities of the professoriate in fulfilling the missions of research, teaching, and service.

**Prerequisites:** graduate standing.

**Course Rules:** ATRIN 900, OCCTHPY 900, PRPP 900, and PT 900 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRIN 901 Seminar in Athletic Training**

1-3 cr. Graduate.

Scholarly discussion forum for graduate students, moderated by program faculty.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 909 Guided Teaching Experience in Health Sciences**

3 cr. Graduate.

This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.

**Prerequisites:** graduate standing, one of the following: ATRAIN 900(P), OCCTHPY 900(P), PRPP 900(P), or PT 900(P), and consent of instructor.

**Course Rules:** Satisfactory/Unsatisfactory only. ATRAIN 909, BMS 909, COMSDIS 909, HCA 909, KIN 909, OCCTHPY 909, PT 909, and PRPP 909 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 990 Research and Dissertation**

1-12 cr. Graduate.

Production of a dissertation under the supervision of the student's major professor with the consultation of the degree committee.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 18 cr max. Satisfactory/Unsatisfactory only.

**Last Taught:** Spring 2023, Fall 2022, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATRAIN 999 Advanced Independent Study**

1-6 cr. Graduate.

Advanced graduate level independent study.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Retakable to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Atmospheric Sciences (ATM SCI)

**ATM SCI 100 Survey of Meteorology**

3 cr. Undergraduate.

Concepts and principles of meteorology; cyclones, fronts, thunderstorms, tornadoes, air pollution, and climate. Interpretation of weather maps, charts, and forecasts. 2 hrs lec, 2 hrs lab-dis.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of 3 cr ATM SCI 100 taken for 4 cr.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 101 Preparing for a Career in Atmospheric Science**

1 cr. Undergraduate.

Provides students with an introduction to student success strategies and campus support services, an understanding of the atmospheric science major's academic requirements, and an opportunity to explore careers, internships, and scholarships in the atmospheric sciences.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 109 Thunderstorms, Tornadoes and Hurricanes**

3 cr. Undergraduate.

The study of basic processes that lead to dry and moist convection. Characteristic atmospheric structure and cloud microphysical processes that produce thunderstorms, tornadoes and hurricanes.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 110 The Origin, Composition, and Structure of the Planetary Atmospheres**

3 cr. Undergraduate.

Origin of the solar system, its planets, and planetary atmospheres.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 194 First-Year Seminar**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** NS

**Last Taught:** Spring 2019, Fall 2016, Fall 2014, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2023, Fall 2013, Spring 2013, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 240 Introduction to Meteorology**

4 cr. Undergraduate.

Quantitative approach to understanding fundamental concepts in meteorology. Radiation, heat balance of the atmosphere, thermodynamics, horizontal motion, general circulation, atmospheric observations, clouds, weather map analysis.

**Prerequisites:** concurrent enrollment in or previous completion of PHYSICS 209, PHYSICS 214, and MATH 232.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 250 Introduction to Climate Science**

4 cr. Undergraduate.

Fundamentals of climate system's inner workings and analysis methods. Climate subsystems and feedbacks, energy balance of the Earth, climates of the past, global warming, internal variability and predictability of climate, dynamical climate models, statistical approaches.

**Prerequisites:** PHYSICS 120(P), or PHYSICS 209(P) and PHYSICS 214(P); COMPSCI 202(P); and MATH 213(P), MATH 221(P), or MATH 231(P); or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 289 Internship in Atmospheric Sciences, Lower Division**

1-6 cr. Undergraduate.

Application of basic knowledge of Atmospheric Sciences in business, organizational, educational, political or other appropriate setting.

**Prerequisites:** soph st.; 2.50 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2015, Fall 2013, Fall 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**General Education Requirements:** NS

**Last Taught:** UWinterIM 2019, UWinterIM 2018, UWinterIM 2015, UWinterIM 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2019, Fall 2013, Fall 1994, Fall 1992.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 330 Air-Pollution Meteorology**

3 cr. Undergraduate/Graduate.

Pollutant sources and sinks, fundamental pollutant chemistry, monitoring techniques, averaging boundary layers and turbulence, diffusion theories, diffusion models, regional and global-scale pollution problems.

**Prerequisites:** ATM SCI 240(P); CHEM 102(P); statistics course recommended.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 330G Air-Pollution Meteorology**

3 cr. Undergraduate/Graduate.

Pollutant sources and sinks, fundamental pollutant chemistry, monitoring techniques, averaging boundary layers and turbulence, diffusion theories, diffusion models, regional and global-scale pollution problems.

**Prerequisites:** ATM SCI 240(P); CHEM 102(P); statistics course recommended.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 350 Atmospheric Thermodynamics**

3 cr. Undergraduate/Graduate.

Radiant energy, sensible heat, and atmospheric thermodynamics; the gas laws; hydrostatic and psychrometric equations; dry and moist convection; clouds and their physical and energy relations. Optional field exercise.

**Prerequisites:** junior standing; MATH 232(P); ATM SCI 240(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 350G Atmospheric Thermodynamics**

3 cr. Undergraduate/Graduate.

Radiant energy, sensible heat, and atmospheric thermodynamics; the gas laws; hydrostatic and psychrometric equations; dry and moist convection; clouds and their physical and energy relations. Optional field exercise.

**Prerequisites:** junior standing; MATH 232(P); ATM SCI 240(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 351 Dynamic Meteorology I**

3 cr. Undergraduate/Graduate.

The role of dynamics in atmospheric physics; equations of motion; symmetric circulation models; gravity waves; Rossby waves, quasi-geostrophy; introduction to instability of atmospheric flows.

**Prerequisites:** junior standing; ATM SCI 240(P); MATH 233(P).

**Last Taught:** Fall 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 351G Dynamic Meteorology I**

3 cr. Undergraduate/Graduate.

The role of dynamics in atmospheric physics; equations of motion; symmetric circulation models; gravity waves; Rossby waves, quasi-geostrophy; introduction to instability of atmospheric flows.

**Prerequisites:** junior standing; ATM SCI 240(P); MATH 233(P).

**Last Taught:** Fall 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 352 Dynamic Meteorology II**

3 cr. Undergraduate/Graduate.

Circulation, vorticity, potential vorticity; shallow water equations: Poincare, Kelvin, and Rossby waves, energy and enstrophy; quasi-geostrophy for a stratified atmosphere; barotropic and baroclinic instability.

**Prerequisites:** junior standing; ATM SCI 351(P); MATH 234(P).

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 352G Dynamic Meteorology II**

3 cr. Undergraduate/Graduate.

Circulation, vorticity, potential vorticity; shallow water equations: Poincare, Kelvin, and Rossby waves, energy and enstrophy; quasi-geostrophy for a stratified atmosphere; barotropic and baroclinic instability.

**Prerequisites:** junior standing; ATM SCI 351(P); MATH 234(P).

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 360 Synoptic Meteorology I**

4 cr. Undergraduate/Graduate.

Fundamental principles; synoptic-scale structure and dynamics; equivalent barotropic model; vertical motions; introduction to and application of quasi-geostrophic theory.

**Prerequisites:** junior standing; MATH 232(P); ATM SCI 240(P).

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 360G Synoptic Meteorology I**

4 cr. Undergraduate/Graduate.

Fundamental principles; synoptic-scale structure and dynamics; equivalent barotropic model; vertical motions; introduction to and application of quasi-geostrophic theory.

**Prerequisites:** junior standing; MATH 232(P); ATM SCI 240(P).

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 361 Synoptic Meteorology II**

4 cr. Undergraduate/Graduate.

Extension of quasi-geostrophic theory to Q-vectors; isentropic potential vorticity applied to mid-latitude weather systems; fronts and jets.

**Prerequisites:** junior standing; ATM SCI 360(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 361G Synoptic Meteorology II**

4 cr. Undergraduate/Graduate.

Extension of quasi-geostrophic theory to Q-vectors; isentropic potential vorticity applied to mid-latitude weather systems; fronts and jets.

**Prerequisites:** junior standing; ATM SCI 360(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 381 Honors Seminar:**

3 cr. Undergraduate.

Selected topics.

**Prerequisites:** sophomore standing; HONORS 200(P); consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Spring 2020, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 460 Mesoscale Circulations**

3 cr. Undergraduate/Graduate.

Theory, analysis and forecasting of mesoscale flows, including convective systems, polar lows, terrain and surface-forced flows, jet streams and hurricanes.

**Prerequisites:** junior standing; ATM SCI 360(R) or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 460G Mesoscale Circulations**

3 cr. Undergraduate/Graduate.

Theory, analysis and forecasting of mesoscale flows, including convective systems, polar lows, terrain and surface-forced flows, jet streams and hurricanes.

**Prerequisites:** junior standing; ATM SCI 360(R) or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 464 Physical Meteorology: Cloud Physics**

3 cr. Undergraduate/Graduate.

Formation of cloud droplets, droplet growth by condensation, formation of ice crystals, precipitation processes, weather radars, cloud models.

**Prerequisites:** junior standing; PHYSICS 210(P); MATH 232(P);

ATM SCI 350(P).

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 464G Physical Meteorology: Cloud Physics**

3 cr. Undergraduate/Graduate.

Formation of cloud droplets, droplet growth by condensation, formation of ice crystals, precipitation processes, weather radars, cloud models.

**Prerequisites:** junior standing; PHYSICS 210(P); MATH 232(P);

ATM SCI 350(P).

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 470 Tropical Meteorology**

3 cr. Undergraduate/Graduate.

Dynamics and energetics of tropical circulations. Origins and evolution of equatorial disturbances and easterly waves. Structure and dynamics of tropical cyclones. Hurricane modeling and prediction.

**Prerequisites:** ATM SCI 351(P) or ATM SCI 360(P).

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 470G Tropical Meteorology**

3 cr. Undergraduate/Graduate.

Dynamics and energetics of tropical circulations. Origins and evolution of equatorial disturbances and easterly waves. Structure and dynamics of tropical cyclones. Hurricane modeling and prediction.

**Prerequisites:** ATM SCI 351(P) or ATM SCI 360(P).

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 480 The General Circulation and Climate Dynamics**

3 cr. Undergraduate/Graduate.

Historical overview, the zonally symmetric circulation, momentum, heat and water budgets, stationary waves, the El Nino Southern oscillation, global warming, interpentadal variability in the North Atlantic.

**Prerequisites:** junior standing; ATM SCI 351(P).

**Last Taught:** Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 480G The General Circulation and Climate Dynamics**

3 cr. Undergraduate/Graduate.

Historical overview, the zonally symmetric circulation, momentum, heat and water budgets, stationary waves, the El Nino Southern oscillation, global warming, interpentadal variability in the North Atlantic.

**Prerequisites:** junior standing; ATM SCI 351(P).

**Last Taught:** Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with in topic.

**General Education Requirements:** NS

**Last Taught:** UWinterIM 2024.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with in topic.

**General Education Requirements:** NS

**Last Taught:** UWinterIM 2024.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 500 Statistical Methods in Atmospheric Sciences**

3 cr. Undergraduate/Graduate.

Mathematical and statistical tools applicable to the investigation of atmospheric problems; the nature and treatment of atmospheric data.

**Prerequisites:** junior standing; ATM SCI 240(P) or ATM SCI 350(P), and MATH 232(P) or consent of instructor.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 500G Statistical Methods in Atmospheric Sciences**

3 cr. Undergraduate/Graduate.

Mathematical and statistical tools applicable to the investigation of atmospheric problems; the nature and treatment of atmospheric data.

**Prerequisites:** junior standing; ATM SCI 240(P) or ATM SCI 350(P), and MATH 232(P) or consent of instructor.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 505 Micrometeorology**

3 cr. Undergraduate/Graduate.

Surface energy budget; radiation balance and heat transfer; boundary-layer profiles of wind, temperature and moisture; turbulence and boundary-layer fluxes; evapotranspiration; special topics.

**Prerequisites:** junior standing; ATM SCI 240(P) and one of the following: ATM SCI 330(P), ATM SCI 350(P), ATM SCI 351(P), or ATM SCI 360(P).**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 505G Micrometeorology**

3 cr. Undergraduate/Graduate.

Surface energy budget; radiation balance and heat transfer; boundary-layer profiles of wind, temperature and moisture; turbulence and boundary-layer fluxes; evapotranspiration; special topics.

**Prerequisites:** junior standing; ATM SCI 240(P) and one of the following: ATM SCI 330(P), ATM SCI 350(P), ATM SCI 351(P), or ATM SCI 360(P).**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 511 Seminar in Atmospheric Radiation and Remote Sensing**

3 cr. Undergraduate/Graduate.

Basic laws of radiation, absorption and scattering, weather radar, retrieval of soundings, remote sensing and climate, weather satellites.

**Prerequisites:** junior standing; MATH 232(P); ATM SCI 350(P) and PHYSICS 210(P).**Last Taught:** Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 511G Seminar in Atmospheric Radiation and Remote Sensing**

3 cr. Undergraduate/Graduate.

Basic laws of radiation, absorption and scattering, weather radar, retrieval of soundings, remote sensing and climate, weather satellites.

**Prerequisites:** junior standing; MATH 232(P); ATM SCI 350(P) and PHYSICS 210(P).**Last Taught:** Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 599 Capstone Experience**

1 cr. Undergraduate.

Student writes a paper under supervision of an advisor on an approved topic not covered in the student's regular course work.

**Prerequisites:** senior standing and consent of instructor.**Course Rules:** May be retaken with change in topic to 2 cr max.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 600 Data Analytics**

3 cr. Undergraduate/Graduate.

overs techniques used to analyze data and test scientific hypotheses for both diagnostic/understanding and prognostic/prediction applications, particularly in the atmospheric and related sciences.

**Prerequisites:** junior standing, or graduate standing, or consent of instructor.**Course Rules:** Counts as repeat of ATM SCI 690 with same topic.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 600G Data Analytics**

3 cr. Undergraduate/Graduate.

overs techniques used to analyze data and test scientific hypotheses for both diagnostic/understanding and prognostic/prediction applications, particularly in the atmospheric and related sciences.

**Prerequisites:** junior standing, or graduate standing, or consent of instructor.**Course Rules:** Counts as repeat of ATM SCI 690 with same topic.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 690 Seminar in Atmospheric Sciences:**

1-3 cr. Undergraduate/Graduate.

Intensive topical studies of currently active problem areas.

**Prerequisites:** junior standing; consent of instructor.**Course Rules:** May be retaken with change in topic to 9 cr max. Satisfies L&S Seminar req.**Last Taught:** Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 690G Seminar in Atmospheric Sciences:**

1-3 cr. Undergraduate/Graduate.

Intensive topical studies of currently active problem areas.

**Prerequisites:** junior standing; consent of instructor.**Course Rules:** May be retaken with change in topic to 9 cr max. Satisfies L&S Seminar req.**Last Taught:** Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ATM SCI 695 Internship in Atmospheric Sciences, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of atmospheric sciences in a business, organizational, educational, political or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in atm sci; 3.0 gpa in the major; cons supervising faculty.**Course Rules:** One cr earned for 40 hrs work. May be retaken to 6 cr max.**Last Taught:** Fall 2019, Summer 2019, Fall 2017, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ATM SCI 699 Advanced Independent Reading**

1-3 cr. Undergraduate.

Independent meteorological study.

**Prerequisites:** jr st, 2.0 GPA, consent of instructor, Department Chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 3 cr max.

**Last Taught:** Fall 2008, Spring 2007, Spring 2005, Spring 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 700 Statistical Methods in Atmospheric Sciences II: Signal Detection**

3 cr. Graduate.

Fundamentals of signal detection in noisy multivariate space-time data sets; empirical orthogonal functions, singular value decomposition, maximum covariance analysis and canonical correlation analysis; Fourier analysis; singular and multivariate spectrum analysis.

**Prerequisites:** graduate standing in physical sciences or engineering.

**Course Rules:** Counts as a repeat of ATM SCI 950 with the same topic.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 705 Air Pollution Modeling**

3 cr. Graduate.

Computational techniques for determining surface fluxes of heat and momentum. Numerical methods for solving advection and diffusion problems; statistical diffusion modeling.

**Prerequisites:** graduate standing; consent of instructor.

**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 711 Cloud Dynamics**

3 cr. Graduate.

Atmospheric applications of turbulent flow theory. Nonprecipitating clouds: structure of individual cumulus clouds, stratocumulus and cumulus boundary layers. Precipitating clouds: thunderstorms, squall lines, hurricanes.

**Prerequisites:** graduate standing; consent of instructor.

**Last Taught:** Spring 2021, Spring 2019, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 730 Numerical Weather Prediction**

3 cr. Graduate.

Numerical methods for predicting atmospheric phenomena; numerical stability and dispersion; implicit and explicit damping methods; physical process parameterization; ensemble data assimilation techniques.

**Prerequisites:** graduate standing in physical sciences or engineering.

**Course Rules:** Counts as a repeat of ATM SCI 950 with the same topic.

**Last Taught:** Fall 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 750 Nonlinear Time Series Analysis**

3 cr. Graduate.

Phase space reconstruction; singular spectrum analysis; prediction; dimension estimation; application of nonlinear time series analysis techniques to selected data sets.

**Prerequisites:** graduate standing; consent of instructor.

**Last Taught:** Fall 2013, Spring 2012, Spring 2010, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 761 Advanced Synoptic/Mesoscale Meteorology**

3 cr. Graduate.

Advanced analysis techniques for synoptic/mesoscale diagnoses, case studies of relevant circulation systems; role of planetary, synoptic, and mesoscale flows in system development.

**Prerequisites:** graduate standing; consent of instructor.

**Last Taught:** Fall 2022, Fall 2019, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023, Summer 2023, Spring 2022, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 943 Seminar: Hydrology:**

3 cr. Graduate.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 950 Seminar on Topics in Atmospheric Sciences:**

3 cr. Graduate.

Selected topics in atmospheric dynamics, satellite meteorology, atmospheric & oceanic convection, air & water pollution, numerical prediction remote sensing, & others.

**Prerequisites:** graduate standing in physical sciences or engineering.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2020, Fall 2019, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 990 Master's Thesis**

1-8 cr. Graduate.

**Prerequisites:** graduate standing; consent of instructor and completed thesis proposal.

**Course Rules:** Repeatable to 12 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 997 Doctoral Externship**

1-12 cr. Graduate.

Externship for students enrolled in the Atmospheric Science PhD program.

**Prerequisites:** graduate standing; admis to candidacy for the PhD.

**Course Rules:** Retakeable to 12 cr max.

**Last Taught:** Fall 2019, Spring 2019, Fall 2018, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 998 Doctoral Dissertation**

1-12 cr. Graduate.

**Prerequisites:** graduate standing; admis to candidacy for PhD.

**Course Rules:** Repeatable.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ATM SCI 999 Advanced Independent Reading**

1-12 cr. Graduate.

Independent meteorological study.

**Prerequisites:** graduate standing; consent of instructor.**Course Rules:** Retakable to 12 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Biological Sciences (BIO SCI)

**BIO SCI 100 Survey of Zoology**

3 cr. Undergraduate.

Survey of the animal kingdom, with emphasis on the importance of animals to humans. Study of phyla as represented by types, classification, structure, and life histories. Introduction to cytology, genetics, evolution, and ornithology.

**Prerequisites:** none.**Course Rules:** 2 hrs lec, 2 hrs lab. Does not carry cr toward bio sci major.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 101 General Survey of Microbiology**

4 cr. Undergraduate.

The nature and activities of microorganisms, including surveys of bacteria, fungi, viruses, immunology, and disease applications. 3 hrs lec, 3 hrs lab.

**Prerequisites:** Chem 101(P) or 102(P).**Course Rules:** Intended primarily for nursing students. Does not carry cr toward bio sci major.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 102 Elements of Biology**

3 cr. Undergraduate.

Organization and function of living systems. 2 hrs lec, 2 hrs lab.

**Prerequisites:** none.**Course Rules:** Intended for non-majors; does not carry cr toward bio sci major.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 103 Topics in Modern Biology:**

3 cr. Undergraduate.

How biological factors, processes, and reactions affect living systems. Emphasis on current issues in biology such as genetic engineering, bioethics, and population concerns.

**Prerequisites:** none, except as may be required for specific topics.**Course Rules:** Intended for non-majors; does not carry cr toward bio sci major. May be retaken w/chg in topic to 9 cr max. Students w/cr in Bio Sci 226 or 250 may not take 103 w/those topics.**General Education Requirements:** NS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 104 Plants in Today's World**

3 cr. Undergraduate.

Introduction to major plant groups; principles of structure and function, ecology, and gardening. 2 hrs lec, 2 hrs lab.

**Prerequisites:** none.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 150 Foundations of Biological Sciences I**

4 cr. Undergraduate.

Fundamental principles of biology (ecology, evolution, genetics, molecular and cell biology) integrated through evolutionary framework. First of two-course sequence for bio sci, other science majors. 3 hrs lec, 3 hrs lab.

Open to freshmen.

**Prerequisites:** Chem 100(P) or 102(P) or conc reg.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 152 Foundations of Biological Sciences II**

4 cr. Undergraduate.

Organismal diversity, emphasizing structural and functional relationships in microorganisms, plants, and animals.

**Prerequisites:** grade of C or better in BIO SCI 150(P).**Course Rules:** Second of a two-course sequence for Biological Sciences and other natural science majors. 3 hr lec, 3 hr lab.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 194 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** NS**Last Taught:** Fall 2015, Fall 2014, Fall 2012, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 201 Human Structure and Function**

3 cr. Undergraduate.

Brief introduction to human anatomy and physiology.

**Prerequisites:** Satisfaction of QL-A.**Course Rules:** 2 hrs lec; 3 hrs lab. No credit toward Bio Sci major. Does not substitute for BIO SCI 202 and BIO SCI 203 for Nursing or Health Science. No credit for students with credit in BIO SCI 202 or BIO SCI 203.**General Education Requirements:** NS+, QLB**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 202 Anatomy and Physiology I**

4 cr. Undergraduate.

Anatomy and physiology of the human body including cell, tissues, skeletal, muscular, and nervous systems. 3 hrs lec, 3 hrs lab.

**Prerequisites:** none.

**Course Rules:** Required of students in nursing, med tech & med rec admin. Cannot be combined with Bio Sci 150 & 203 for more than 9 cr toward the bio sci major.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 203 Anatomy and Physiology II**

4 cr. Undergraduate.

Anatomy and physiology of the human body including cardiovascular, respiratory, digestive, excretory, endocrine, and reproductive systems. 3 hrs lec, 3 hrs lab.

**Prerequisites:** C or better in either Bio Sci 202(P) or 315(P).

**Course Rules:** Cannot be combined with Bio Sci 150 & 202 for more than a total of 9 cr toward bio sci major. Cell & Molec Bio.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 206 Biology of Women**

3 cr. Undergraduate.

An anatomical and physiological view of the human female life cycle with emphasis on women's health.

**Prerequisites:** course in biology.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 210 Introduction to Fermentation Biology**

3 cr. Undergraduate.

Principles and microbiology of fermentation in the production of food and beverages.

**Prerequisites:** none.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 289 Internship in Biological Sciences, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of biological sciences in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Bio Sci; 2.50 gpa; cons supervising faculty member.

**Course Rules:** Specific topics may satisfy major area req; consult dept. One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max; combined limit of 3 cr in Bio Sci 289 & 489 counts toward Bio Sci major.

**Last Taught:** Spring 2016, Fall 2015, Summer 2015, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 290 Independent Study and Research:**

1-3 cr. Undergraduate.

Directed library or laboratory/field research in biological sciences.

**Prerequisites:** 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

**Course Rules:** Specific topics may satisfy major area req; consult dept. May be retaken to 6 cr max. Does not count as a Bio Sci lab course.

**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** May be retaken to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs and srs.

**Last Taught:** Spring 2019, Spring 2016, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2013, Spring 2013, Fall 2012, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Specific topics may satisfy major area req; consult dept.

May be retaken w/chg in topic.

**Last Taught:** UWinterIM 2012, Spring 2003, Fall 2000, Fall 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 310 General Ecology**

4 cr. Undergraduate.

Complex interrelationships between organisms and their environment.

Physiological and behavioral adaptations, populations, biotic communities, ecosystems. 3 hrs lec, 3 hrs lab, field work.

**Prerequisites:** grade of C or better in Bio Sci 152(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 315 Cell Biology**

3 cr. Undergraduate.

Cell structure and function at the molecular level. Flow of material,

energy, and information within prokaryotic and eukaryotic cells. 3 hrs lec.

**Prerequisites:** grades of C or better in both Bio Sci 152(P) & Chem 104(P).

**Course Rules:** Cell & Molec Bio; Microbio.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 316 Laboratory in Genetics and Cell Biology**

2 cr. Undergraduate.

Laboratory studies in genetics and cell biology using microorganisms, plants, and animals. Hypothesis testing, data collection, computer and literature analyses, and writing of scientific papers. 1 hr dis, 3 hr lab.

**Prerequisites:** grades of C or better in both Bio Sci 152(P) & Chem 104(P); Bio Sci 315(C) or 325(C).

**Course Rules:** Cell & Molec Bio; Microbio.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 325 Genetics**

4 cr. Undergraduate.

Principles of inheritance. Fundamental concepts of genetics. 3 hrs lec, 2 hrs dis.

**Prerequisites:** grade of C or better in Bio Sci 150(P); Bio Sci 152(C) or 203(P); Chem 104(C).**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 335 Mammalian Reproductive Biology**

3 cr. Undergraduate.

Anatomical and physiological aspects of mammalian reproductive systems, emphasis on humans.

**Prerequisites:** junior standing; BIO SCI 315(P) or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 356 Developmental Biology**

3 cr. Undergraduate.

Development of living organisms at the molecular, cellular, and organismal levels. 3 hrs lec.

**Prerequisites:** grade of C or better in either Bio Sci 315(P) or 325(P) or cons instr.**Course Rules:** Cell & Molec Bio.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 358 Birds of Wisconsin**

2 cr. Undergraduate.

Bird taxonomy and ecology, including the identification of Wisconsin birds. 4 hrs lab &amp; field work.

**Prerequisites:** jr st; Bio Sci 150(P).**Course Rules:** Field trip schedules (if any) and fees will be announced in class.**Last Taught:** Spring 2022, Spring 2019, Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 370 Mammalian Physiology**

3 cr. Undergraduate.

Cellular and organ system physiology and comparative aspects of structure-function relationships.

**Prerequisites:** BIO SCI 315(P) or consent of instructor.**Course Rules:** Cell & Molec Bio.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 380 Honors Seminar**

3 cr. Undergraduate.

Selected topics in modern and traditional biology and their relation to society.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.**Course Rules:** Specific topics may satisfy major area requirements; consult department. May be retaken with change in topic to 9 cr max.**General Education Requirements:** NS**Last Taught:** Fall 2022, Spring 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 383 General Microbiology**

4 cr. Undergraduate.

Nature and properties of microorganisms. Molecular biology and genetics of bacteria and viruses. Major groups, ecological relationships, and taxonomy.

**Prerequisites:** a grade of C or better in BIO SCI 152(P); BIO SCI 325(C) or consent of instructor.**Course Rules:** 3 hrs lec, 4 hrs lab. Cell & Molec Bio; Microbio.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 401 Immunology**

3 cr. Undergraduate/Graduate.

Fundamentals of the immune response, including cellular, physiological and molecular aspects. 3 hrs lec.

**Prerequisites:** jr st; grade of C or better in Bio Sci 315(P) or 325(P); Chem 341(P) or 343(P); or cons instr.**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 401G Immunology**

3 cr. Undergraduate/Graduate.

Fundamentals of the immune response, including cellular, physiological and molecular aspects. 3 hrs lec.

**Prerequisites:** jr st; grade of C or better in Bio Sci 315(P) or 325(P); Chem 341(P) or 343(P); or cons instr.**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 405 General Virology**

3 cr. Undergraduate/Graduate.

Basic course in nature of viruses: bacterial, plant, and animal. The use of viruses in model systems for molecular biology and agents of disease.

**Prerequisites:** jr st; Bio Sci 325(P); Bio Sci 315(P) or 383(P); Chem 501(R).**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 405G General Virology**

3 cr. Undergraduate/Graduate.

Basic course in nature of viruses: bacterial, plant, and animal. The use of viruses in model systems for molecular biology and agents of disease.

**Prerequisites:** jr st; Bio Sci 325(P); Bio Sci 315(P) or 383(P); Chem 501(R).**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 406 Marine Biology**

3 cr. Undergraduate/Graduate.

Marine biology with a strong ecological focus; physical and chemical constraints that marine environments impose on organisms; specialized adaptations of marine organisms in response. 3 hrs lec, 1 hr dis.

**Prerequisites:** jr st; Bio Sci 310(C) or consent of instructor.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 406G Marine Biology**

3 cr. Undergraduate/Graduate.

Marine biology with a strong ecological focus; physical and chemical constraints that marine environments impose on organisms; specialized adaptations of marine organisms in response. 3 hrs lec, 1 hr dis.

**Prerequisites:** jr st; Bio Sci 310(C) or consent of instructor.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 440 Ecology and Evolution of Amphibians and Reptiles**

3 cr. Undergraduate/Graduate.

Evolutionary history of amphibians and reptiles; their patterns of biological diversity, morphology, life history, ecology, and behavior. For upper-level undergrad and grad students. 3 hrs lec.

**Prerequisites:** jr st; Bio Sci 310 (P).**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 440G Ecology and Evolution of Amphibians and Reptiles**

3 cr. Undergraduate/Graduate.

Evolutionary history of amphibians and reptiles; their patterns of biological diversity, morphology, life history, ecology, and behavior. For upper-level undergrad and grad students. 3 hrs lec.

**Prerequisites:** jr st; Bio Sci 310 (P).**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 451 Field Methods in Conservation**

3 cr. Undergraduate/Graduate.

Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab.

**Prerequisites:** jr st; Bio Sci 310(P) or equiv or cons instr.**Course Rules:** Jointly offered with & counts as repeat of CES 451.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 451G Field Methods in Conservation**

3 cr. Undergraduate/Graduate.

Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab.

**Prerequisites:** jr st; Bio Sci 310(P) or equiv or cons instr.**Course Rules:** Jointly offered with & counts as repeat of CES 451.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 455 Cellular, Molecular and Developmental Neurobiology**

3 cr. Undergraduate/Graduate.

Nervous systems from cellular, molecular, and developmental perspectives; from basic biophysical properties of neurons to cellular and molecular basis of nervous system development and function.

**Prerequisites:** jr st, grade of C or better in Bio Sci 315(P); or grad st.**Course Rules:** Not open to students w/cr in Bio Sci/Psych 354. Cell & Molec Bio.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 455G Cellular, Molecular and Developmental Neurobiology**

3 cr. Undergraduate/Graduate.

Nervous systems from cellular, molecular, and developmental perspectives; from basic biophysical properties of neurons to cellular and molecular basis of nervous system development and function.

**Prerequisites:** jr st, grade of C or better in Bio Sci 315(P); or grad st.**Course Rules:** Not open to students w/cr in Bio Sci/Psych 354. Cell & Molec Bio.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 458 Community Ecology**

3 cr. Undergraduate/Graduate.

Theories and models in community ecology. Analysis of biological communities emphasizing the origin, maintenance and consequences of species diversity within local communities.

**Prerequisites:** jr st; Bio Sci 152(P) & 310(P) or cons instr; or grad st.**Last Taught:** Spring 2018, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 458G Community Ecology**

3 cr. Undergraduate/Graduate.

Theories and models in community ecology. Analysis of biological communities emphasizing the origin, maintenance and consequences of species diversity within local communities.

**Prerequisites:** jr st; Bio Sci 152(P) & 310(P) or cons instr; or grad st.**Last Taught:** Spring 2018, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 465 Biostatistics**

3 cr. Undergraduate/Graduate.

Simple distribution; statistical inference; simple regression theory; experimental design; analysis of variance and covariance as they relate to biology.

**Prerequisites:** jr st; Bio Sci 150(P); Math 105(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 465G Biostatistics**

3 cr. Undergraduate/Graduate.

Simple distribution; statistical inference; simple regression theory; experimental design; analysis of variance and covariance as they relate to biology.

**Prerequisites:** jr st; Bio Sci 150(P); Math 105(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 469 Genomic Data Analysis**

2 cr. Undergraduate/Graduate.

Methods for the analysis of large-scale genomic data sets, including whole-genome association studies and transcriptomics.

**Prerequisites:** jr st; Bio Sci 325(P) & 465(P) or equiv; or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 469G Genomic Data Analysis**

2 cr. Undergraduate/Graduate.

Methods for the analysis of large-scale genomic data sets, including whole-genome association studies and transcriptomics.

**Prerequisites:** jr st; Bio Sci 325(P) & 465(P) or equiv; or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 480 Ecological Genetics**

3 cr. Undergraduate/Graduate.

Origin and maintenance of genetic variation within and among populations. Fundamental theory and application to ecology and conservation.

**Prerequisites:** jr st, Bio Sci 310(P) & 325(P); or equiv.

**Course Rules:** 3 hrs lec/dis.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 480G Ecological Genetics**

3 cr. Undergraduate/Graduate.

Origin and maintenance of genetic variation within and among populations. Fundamental theory and application to ecology and conservation.

**Prerequisites:** jr st, Bio Sci 310(P) & 325(P); or equiv.

**Course Rules:** 3 hrs lec/dis.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 489 Internship in Biological Sciences, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of biological sciences in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Bio Sci; 2.50 gpa; cons supervising faculty member.

**Course Rules:** Specific topics may satisfy major area req; consult dept.

One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max; combined limit of 3 cr in Bio Sci 289 & 489 counts toward Bio Sci major.

**Last Taught:** Fall 2023, Spring 2022, Fall 2021, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 490 Molecular Genetics**

3 cr. Undergraduate/Graduate.

Molecular mechanisms of higher organisms and model systems. Topics include gene structure, genetic and genomic analysis, gene expression and regulation.

**Prerequisites:** junior standing, BIO SCI 325(P); BIO SCI 315(C) and BIO SCI 316(C).

**Course Rules:** 2 hrs lec, 1 hr dis. Cell & Molec Bio; Microbio.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 490G Molecular Genetics**

3 cr. Undergraduate/Graduate.

Molecular mechanisms of higher organisms and model systems. Topics include gene structure, genetic and genomic analysis, gene expression and regulation.

**Prerequisites:** junior standing, BIO SCI 325(P); BIO SCI 315(C) and BIO SCI 316(C).

**Course Rules:** 2 hrs lec, 1 hr dis. Cell & Molec Bio; Microbio.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 495 Internship in Biotechnology, Upper Division**

3-6 cr. Undergraduate.

Application of advanced principles in microbiology and biotechnology in appropriate settings.

**Prerequisites:** jr st; Bio Sci 383(303)(P) & 529(650)(P); declared microbio major; 2.5 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 496 UROP Apprenticeship, Upper-Level**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.

**Prerequisites:** jr st; acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** May be retaken to 9 cr max in any combination of UROP apprenticeship courses.

**Last Taught:** Fall 2019, Spring 2017, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 498 Genetics of Development and Cancer**

3 cr. Undergraduate/Graduate.

The genetic mechanisms governing animal development, cellular proliferation, and cellular death. Focus on how these cellular processes are investigated using experimental biology and human cancers.

**Prerequisites:** junior standing and a grade of C or better in BIO SCI 325(P).

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 498G Genetics of Development and Cancer**

3 cr. Undergraduate/Graduate.

The genetic mechanisms governing animal development, cellular proliferation, and cellular death. Focus on how these cellular processes are investigated using experimental biology and human cancers.

**Prerequisites:** junior standing and a grade of C or better in BIO SCI 325(P).

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Specific topics may satisfy major area req; consult dept.

May be retaken w/chg in topic.

**Last Taught:** Fall 2003, Summer 2000, Summer 1996, Summer 1992.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 500 Plant Physiology**

3 cr. Undergraduate/Graduate.

Major biological activities of plants; including growth, development, and metabolism. 3 hrs lec/dis.

**Prerequisites:** jr st; Bio Sci 325(P); Bio Sci 310(P) or 315(P) or cons instr.

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 500G Plant Physiology**

3 cr. Undergraduate/Graduate.

Major biological activities of plants; including growth, development, and metabolism. 3 hrs lec/dis.

**Prerequisites:** jr st; Bio Sci 325(P); Bio Sci 310(P) or 315(P) or cons instr.

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 501 Plant and Aquatic Ecophysiology Laboratory**

3 cr. Undergraduate/Graduate.

Hands-on examination of ecophysiological activities in plants and aquatic ecosystems using diverse field and lab experimental methods. 1 hr lec, 1 hr dis. 2 hrs lab.

**Prerequisites:** jr st; Bio Sci 325(P) or 310(P).

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 501G Plant and Aquatic Ecophysiology Laboratory**

3 cr. Undergraduate/Graduate.

Hands-on examination of ecophysiological activities in plants and aquatic ecosystems using diverse field and lab experimental methods. 1 hr lec, 1 hr dis. 2 hrs lab.

**Prerequisites:** jr st; Bio Sci 325(P) or 310(P).

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 502 Introduction to Programming and Modeling in Ecology and Evolution**

3 cr. Undergraduate/Graduate.

Using R statistical language to teach script programming to address data manipulation, statistical modeling, and simple simulations in an ecological and evolutionary context.

**Prerequisites:** jr st; intro stats (e.g., Bio Sci 465).

**Course Rules:** Counts as repeat of Bio Sci 599 w/similar topic.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 502G Introduction to Programming and Modeling in Ecology and Evolution**

3 cr. Undergraduate/Graduate.

Using R statistical language to teach script programming to address data manipulation, statistical modeling, and simple simulations in an ecological and evolutionary context.

**Prerequisites:** jr st; intro stats (e.g., Bio Sci 465).

**Course Rules:** Counts as repeat of Bio Sci 599 w/similar topic.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 505 Conservation Biology**

3 cr. Undergraduate/Graduate.

Genetic and ecological approaches to the conservation of biological diversity. Topics include biology of rare plants and animals, design of nature reserves, and restoration ecology. 3 hrs lec.

**Prerequisites:** junior standing, BIO SCI 152(P), and BIO SCI 325(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 505G Conservation Biology**

3 cr. Undergraduate/Graduate.

Genetic and ecological approaches to the conservation of biological diversity. Topics include biology of rare plants and animals, design of nature reserves, and restoration ecology. 3 hrs lec.

**Prerequisites:** junior standing, BIO SCI 152(P), and BIO SCI 325(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 512 Limnology I**

3 cr. Undergraduate/Graduate.

The ecology of freshwater ecosystems as influenced by physical and chemical processes.

**Prerequisites:** jr st; Bio Sci 150(P) & 152(P), course in chem; or cons instr.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 512G Limnology I**

3 cr. Undergraduate/Graduate.

The ecology of freshwater ecosystems as influenced by physical and chemical processes.

**Prerequisites:** jr st; Bio Sci 150(P) & 152(P), course in chem; or cons instr.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 523 Evolution and Ecology of Birds**

3 cr. Undergraduate/Graduate.

Study of the origin and maintenance of diversity in birds. Topics include systematics, biogeography, life-history behavior, and conservation. 3 hrs lec.

**Prerequisites:** jr st; Bio Sci 152(P) & 310(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 523G Evolution and Ecology of Birds**

3 cr. Undergraduate/Graduate.

Study of the origin and maintenance of diversity in birds. Topics include systematics, biogeography, life-history behavior, and conservation. 3 hrs lec.

**Prerequisites:** jr st; Bio Sci 152(P) & 310(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 529 Molecular Biology of Microorganisms**

3 cr. Undergraduate/Graduate.

Molecular analysis of microbial genetic systems of bacteria, phage, fungi, and yeast. 2 hrs lec, 1 hr dis.

**Prerequisites:** jr st; Bio Sci 383(P).**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 529G Molecular Biology of Microorganisms**

3 cr. Undergraduate/Graduate.

Molecular analysis of microbial genetic systems of bacteria, phage, fungi, and yeast. 2 hrs lec, 1 hr dis.

**Prerequisites:** jr st; Bio Sci 383(P).**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 532 Behavioral Ecology**

3 cr. Undergraduate/Graduate.

Behavioral adaptations of organisms in relation to their environment, including social organization, territoriality, cooperation and conflict, parental care, breeding strategies, foraging.

**Prerequisites:** jr st; Bio Sci 310(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 532G Behavioral Ecology**

3 cr. Undergraduate/Graduate.

Behavioral adaptations of organisms in relation to their environment, including social organization, territoriality, cooperation and conflict, parental care, breeding strategies, foraging.

**Prerequisites:** jr st; Bio Sci 310(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 535 Bacterial Pathogenesis**

3 cr. Undergraduate.

Structural and physiological characteristics of important bacteria causing human and animal diseases. Interactions between pathogen and host, including host defense mechanisms.

**Prerequisites:** jr st; grade of C or better in BIO SCI 383(P).**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 539 Laboratory Techniques in Molecular Biology**

4 cr. Undergraduate.

Molecular biological techniques, including cell cultures, RNA and DNA isolation, cloning and sequencing of genes; use of expression vectors; protein electrophoresis. 2 hrs lec/dis, 6 hrs lab.

**Prerequisites:** jr st; BIO SCI 315(P) or BIO SCI 325(P).**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 540 Microbial Diversity and Physiology**

3 cr. Undergraduate/Graduate.

Physiology, ecology, and diversity of microorganisms. 3 hrs lec.

**Prerequisites:** jr st; Bio Sci 383(P).**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 540G Microbial Diversity and Physiology**

3 cr. Undergraduate/Graduate.

Physiology, ecology, and diversity of microorganisms. 3 hrs lec.

**Prerequisites:** jr st; Bio Sci 383(P).**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 542 Biological Electron Microscopy**

3 cr. Undergraduate/Graduate.

Theory, design, and operating principles of scanning and transmission electron microscopes; preparation of biological specimens.

**Prerequisites:** jr st; Bio Sci 315(P) & 316(P), or cons instr.**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 542G Biological Electron Microscopy**

3 cr. Undergraduate/Graduate.

Theory, design, and operating principles of scanning and transmission electron microscopes; preparation of biological specimens.

**Prerequisites:** jr st; Bio Sci 315(P) & 316(P), or cons instr.**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 543 Scanning Electron Microscopy Laboratory**

2 cr. Undergraduate/Graduate.

Lab/dis with an emphasis on 'hands-on' exercises including biological specimen prep, microscope operation and photography.

**Prerequisites:** jr st; Bio Sci 542(C) & cons instr.**Course Rules:** Cell & Molec Bio.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 543G Scanning Electron Microscopy Laboratory**

2 cr. Undergraduate/Graduate.

Lab/dis with an emphasis on 'hands-on' exercises including biological specimen prep, microscope operation and photography.

**Prerequisites:** jr st; Bio Sci 542(C) & cons instr.**Course Rules:** Cell & Molec Bio.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**BIO SCI 544 Transmission Electron Microscopy Laboratory**

3 cr. Undergraduate/Graduate.

Lab/dis with an emphasis on 'hands-on' exercises including fixation and sectioning of biological specimens, microscope operation and photography.

**Prerequisites:** jr st; 3 cr in Bio Sci 542(C); cons instr.

**Course Rules:** Cell & Molec Bio; Microbio.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 544G Transmission Electron Microscopy Laboratory**

3 cr. Undergraduate/Graduate.

Lab/dis with an emphasis on 'hands-on' exercises including fixation and sectioning of biological specimens, microscope operation and photography.

**Prerequisites:** jr st; 3 cr in Bio Sci 542(C); cons instr.

**Course Rules:** Cell & Molec Bio; Microbio.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 562 Topics in Field Biology:**

1-2 cr. Undergraduate/Graduate.

Intensive mini-course on applied and basic field biology topics, e.g. vegetation sampling; natural area management; wetland delineation; identification, ecology of a taxon. On-line component; 2 or more days (depending on topic) in-person instruction.

**Prerequisites:** jr st; Bio Sci 310(P) or equivalent; add'l prereqs may be required depending on topic.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Summer 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 562G Topics in Field Biology:**

1-2 cr. Undergraduate/Graduate.

Intensive mini-course on applied and basic field biology topics, e.g. vegetation sampling; natural area management; wetland delineation; identification, ecology of a taxon. On-line component; 2 or more days (depending on topic) in-person instruction.

**Prerequisites:** jr st; Bio Sci 310(P) or equivalent; add'l prereqs may be required depending on topic.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Summer 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 564 Endocrinology**

3 cr. Undergraduate/Graduate.

Physiological, biochemical, and phylogenetic aspects of hormonal communication; emphasis on vertebrates. 3 hrs lec.

**Prerequisites:** jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 564G Endocrinology**

3 cr. Undergraduate/Graduate.

Physiological, biochemical, and phylogenetic aspects of hormonal communication; emphasis on vertebrates. 3 hrs lec.

**Prerequisites:** jr st; Chem 103(P) or 341(P) or 343(P); Bio Sci 315(P); or cons instr.

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 565 Gene Regulation in Stem Cells and Regeneration**

3 cr. Undergraduate.

Molecular mechanism by which genes are regulated in higher eukaryotes, including humans. Role of gene regulation during normal development and disease in eukaryotes.

**Prerequisites:** junior standing and BIO SCI 315(P) or BIO SCI 325(P).

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 565G Gene Regulation in Stem Cells and Regeneration**

3 cr. Undergraduate.

Molecular mechanism by which genes are regulated in higher eukaryotes, including humans. Role of gene regulation during normal development and disease in eukaryotes.

**Prerequisites:** junior standing and BIO SCI 315(P) or BIO SCI 325(P).

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 566 Cell Biology of Human Disease**

3 cr. Undergraduate.

Cellular and molecular mechanisms of human developmental diseases; cell signaling in the treatment and prevention of diseases and genetic syndromes.

**Prerequisites:** jr st and BIO SCI 315(P).

**Course Rules:** Cell & Molec Bio.

**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 572 Functional Genomics**

3 cr. Undergraduate/Graduate.

Organization, function, and analysis of genes, proteins, and genomes using internet databases and bioinformatic tools; current knowledge of genomes in various organisms; transcriptomics and proteomics. 2 hrs lec, 1 hr dis.

**Prerequisites:** jr st; Bio Sci 325(260)(P).

**Course Rules:** Cell & Molec Bio; Microbio.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 572G Functional Genomics**

3 cr. Undergraduate/Graduate.

Organization, function, and analysis of genes, proteins, and genomes using internet databases and bioinformatic tools; current knowledge of genomes in various organisms; transcriptomics and proteomics. 2 hrs lec, 1 hr dis.

**Prerequisites:** jr st; Bio Sci 325(260)(P).

**Course Rules:** Cell & Molec Bio; Microbio.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 575 Evolutionary Biology**

3 cr. Undergraduate/Graduate.

Evolutionary processes in natural populations. Topics include mating patterns, speciation, gene flow, natural selection, and genetic approaches to conservation. 3 hrs lec.

**Prerequisites:** jr st; Bio Sci 152(P) & 325(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 575G Evolutionary Biology**

3 cr. Undergraduate/Graduate.

Evolutionary processes in natural populations. Topics include mating patterns, speciation, gene flow, natural selection, and genetic approaches to conservation. 3 hrs lec.

**Prerequisites:** jr st; Bio Sci 152(P) & 325(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 580 Experimental Microbiology**

4 cr. Undergraduate.

Modern experimental approaches to study of microbial physiology and genetics. 2 hrs lec/6 hrs lab.

**Prerequisites:** jr st; BIO SCI 383(P).**Course Rules:** Cell & Molec Bio; Microbio.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 599 Special Topics in Biological Sciences:**

1-3 cr. Undergraduate/Graduate.

In-depth examination of important subjects in one or more areas of the biological sciences. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2016, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 599G Special Topics in Biological Sciences:**

1-3 cr. Undergraduate/Graduate.

In-depth examination of important subjects in one or more areas of the biological sciences. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2016, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 611 Seminar on Recent Advances in Limnology and Oceanography**

2 cr. Undergraduate/Graduate.

Lectures and discussion of current issues in limnology and oceanography; focus on a specific issue or research topic.

**Prerequisites:** sr st; Bio Sci 310(P); or Bio Sci 315(P) & 316(P); or Bio Sci 383(P).**Course Rules:** Can no longer be retaken for credit.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 611G Seminar on Recent Advances in Limnology and Oceanography**

2 cr. Undergraduate/Graduate.

Lectures and discussion of current issues in limnology and oceanography; focus on a specific issue or research topic.

**Prerequisites:** sr st; Bio Sci 310(P); or Bio Sci 315(P) & 316(P); or Bio Sci 383(P).**Course Rules:** Can no longer be retaken for credit.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 670 Senior Seminar in Biological Sciences**

1 cr. Undergraduate.

Examination of biological literature and preparation, presentation, and discussion of oral reports by individual students.

**Prerequisites:** sr st; Bio Sci lab course numbered 300-349; declared Bio Sci major.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 671 Undergraduate Seminar in Microbiology**

1 cr. Undergraduate.

Examination of microbiological literature; preparation, presentation, and discussion of oral reports by individual students.

**Prerequisites:** senior standing and BIO SCI 383(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 672 Undergraduate Seminar in Cell and Molecular Biology**

1 cr. Undergraduate.

Examination of cell and molecular biology literature; preparation, presentation, and discussion of oral reports by individual students.

**Prerequisites:** sr st; Bio Sci 315(P) & 316(P).**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 695 Independent Study in Freshwater Sciences for Biological Sciences Students**

1-3 cr. Undergraduate.

Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist from the School of Freshwater Science.

**Prerequisites:** jr st; Bio Sci 325(P); one of Bio Sci 310(P), 315(P)/316(P), or 383(P); 2.500 GPA; writ cons instr, dept chair, & asst dean for SAS.**Course Rules:** Bio Sci 695 & FrshWtr 695 are jointly offered; w/same subject, they count as repeats of one another. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.**Last Taught:** Spring 2022, Fall 2021, Spring 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 697 Independent Study in Cell and Molecular Biology**

1-3 cr. Undergraduate.

Independent and original research conducted under the direction of a cell/molecular biology faculty or staff member.

**Prerequisites:** jr st; Bio Sci 315(P) & 316(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.**Course Rules:** May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 698 Independent Study in Microbiology**

1-3 cr. Undergraduate.

Introduction to research. Independent and original study conducted under the direction of a faculty or staff member.

**Prerequisites:** jr st; Bio Sci 383(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

**Course Rules:** May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 699 Independent Study**

1-3 cr. Undergraduate.

Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member. Requires submission of a formal study proposal.

**Prerequisites:** jr st; Bio Sci 325(260)(P); Bio Sci 310(P) or Bio Sci 315(P) & 316(P); 2.5 gpa; writ cons instr, dept chair, & asst dean for SAS.

**Course Rules:** May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 735 Bacterial Pathogenesis**

3 cr. Graduate.

Structural and physiological characteristics of important bacteria causing human and animal diseases. Interactions between pathogen and host, including host defense mechanisms.

**Prerequisites:** Graduate standing.

**Last Taught:** Fall 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 739 Laboratory Techniques in Molecular Biology**

4 cr. Graduate.

Molecular biological techniques, including cell cultures, RNA and DNA isolation, cloning and sequencing of genes; use of expression vectors; protein electrophoresis. 2 hrs lec/dis, 6 hrs lab.

**Prerequisites:** graduate standing.

**Course Rules:** Not open to students w/ credit in BIO SCI 539.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 750 Scientific Writing**

2 cr. Graduate.

Writing techniques for the sciences, including proposal writing, submission of papers to journals. Writing and editing research proposals, scientific papers, and review papers. Critique of published papers.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 765 Gene Regulation in Stem Cells and Regeneration**

3 cr. Graduate.

Molecular mechanism by which genes are regulated in higher eukaryotes, including humans. Role of gene regulation during normal development and disease in eukaryotes.

**Prerequisites:** graduate standing.

**Course Rules:** Not open to students w/ credit in BIO SCI 565.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 766 Cell Biology of Human Disease**

3 cr. Graduate.

Cellular and molecular mechanisms of human developmental diseases; cell signaling in the treatment and prevention of diseases and genetic syndromes.

**Prerequisites:** Graduate standing.

**Last Taught:** Spring 2023, Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 780 Experimental Microbiology**

4 cr. Graduate.

Modern experimental approaches to study of microbial physiology and genetics. 2 hrs lec/6 hrs lab.

**Prerequisites:** Graduate standing.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 800 Graduate Capstone in Biological Sciences:**

2 cr. Graduate.

Capstone Seminar involving extensive research and evaluation of the scientific literature on a specific topic. Group and individual oral presentations required. Not re-takable for credit.

**Prerequisites:** Open only to MS students in non-thesis track; cons instr.

**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 899 Advanced Independent Studies**

1-3 cr. Graduate.

Special studies at the graduate level involving independent reading, library research, and/or field for laboratory study other than thesis research.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Retakable w/chg in topic to 8 cr max.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 900 Biology Colloquium**

1 cr. Graduate.

Talks by invited speakers and faculty members on topics of biological interest.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 925 Graduate Seminar in Biological Sciences**

1-2 cr. Graduate.

Carries 1 cr when offered once weekly; carries 2 cr when offered twice weekly.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 12 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 927 Seminar: Population and Community Ecology:**

1-2 cr. Graduate.

Carries 1 cr when offered once weekly; carries 2 cr when offered twice weekly.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2023, Spring 2021, Spring 2015, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BIO SCI 929 Special Topics in Ecology, Evolution and Behavior**

1-2 cr. Graduate.

Current topics in EEB examined in a seminar format.

**Prerequisites:** grad st.**Course Rules:** Retakable to 12 cr max.**Last Taught:** Fall 2023, Fall 2022, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 931 Seminar in Systematic Biology and Evolution:**

1-2 cr. Graduate.

Current topics in systemic biology and evolution explored in a seminar format.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2019, Spring 2018, Fall 2017, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 933 Seminar in Neuroscience**

2 cr. Graduate.

Student oral and poster presentations in cellular, molecular, behavioral, and cognitive neuroscience. Students will also write evaluations and summaries of external presentations.

**Prerequisites:** grad st in Psych, Bio Sci, or Ed Psych or cons instr**Course Rules:** Retakable to 8 cr max. Bio Sci 933 & Psych 933 are jointly offered; students may enroll under only one of the curricular areas in any single semester.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 934 Research Advances in Cell and Molecular Biology**

1 cr. Graduate.

Presentation and discussion of original research and current topics in cell and molecular biology. Retakable to 10 cr max.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 935 Research Advances in Ecology, Evolution and Behavior**

1 cr. Graduate.

Presentation and discussion of original research and current topics in evolution, ecology, and behavior.

**Prerequisites:** grad st.**Course Rules:** Retakable to 10 cr max.**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 936 Research Advances in Microbiology**

1 cr. Graduate.

Presentation and discussion of original research and current topics in microbiology.

**Prerequisites:** grad st.**Course Rules:** Retakable to 10 cr max.**Last Taught:** Fall 2021, Spring 2021, Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BIO SCI 990 Research**

1-8 cr. Graduate.

Mentored research in partial fulfillment of thesis requirements.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

# Biomedical Engineering (BME)

**BME 101 Fundamentals of Biomedical Engineering**

3 cr. Undergraduate.

A system approach to physiology, cell physiology and transport, major organ systems, cardiovascular system, biomedical signal processing, biomechanics, biomedical engineering design.

**Prerequisites:** MATH 115(C).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 296 Fundamentals of Biomaterials**

4 cr. Undergraduate.

Fundamentals of biomaterials including ceramics, metals, polymers, and natural biomaterials; Biological responses to implants; clinical perspectives; designing new biomaterials; tissue engineering. Laboratory experiments.

**Prerequisites:** BIO SCI 203(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 301 Fundamentals of Biomaterials**

3 cr. Undergraduate.

Fundamentals of biomaterials including ceramics, metals, polymers, and natural biomaterials; Biological responses to implants; clinical perspectives; designing new biomaterials; tissue engineering.

**Prerequisites:** BIO SCI 203(P) and MATLENG 201(P).**Course Rules:** Previously BME 385.**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 302 Analysis and Modeling of Dynamic Systems**

4 cr. Undergraduate.

Modeling and analysis of mechanical, electrical, electromechanical, fluid, and physiological systems; laboratory experiments.

**Prerequisites:** EAS 210(P) or MECHENG 101(P), ELECENG 234(P), and PHYSICS 210(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 305 Introduction to Engineering Biomechanics**

3 cr. Undergraduate.

Introduction to engineering biomechanics principles applied to the musculoskeletal system and human body for analysis of human movement.

**Prerequisites:** BIO SCI 203(P) and BME 302(P).**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 306 Introduction to Engineering Biomechanics**

4 cr. Undergraduate.

Introduction to engineering biomechanics principles applied to the musculoskeletal system and human body for analysis of human movement, laboratory experiments.

**Prerequisites:** BIO SCI 203(P), BME 296(P) or BME 301(P) and BME 302(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 310 Biomedical Signals and Systems**

3 cr. Undergraduate.

Introduction to principles of biosignals and system of the human body. Time-domain analysis of Biosignals, Biosensing, Bio-electric signals, Electrocardiogram (ECG), muscle electromyogram (EMG), EEG, etc.

**Prerequisites:** BME 302(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 320 Engineering of Biomedical Devices I**

4 cr. Undergraduate.

Physiological and biomechanical systems, sensors and actuators, signal processing, hearing aid and implants. Laboratory experiments sessions included.

**Prerequisites:** junior standing, BME 101(P) and concurrent enrollment or previous completion of BME 302.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 325 Engineering of Biomedical Devices II**

3 cr. Undergraduate.

Feedback and control systems, visual prostheses, heart assist and replacement devices, respiratory aids, active and passive prosthetic limbs.

**Prerequisites:** junior standing, BIO SCI 203(P), and BME 320(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 437 Introduction to Biomedical Imaging**

3 cr. Undergraduate/Graduate.

Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.

**Prerequisites:** senior standing; completion of BME 310(P) or ELECENG 310(P).

**Course Rules:** BME 437/ELECENG 437 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 437G Introduction to Biomedical Imaging**

3 cr. Undergraduate/Graduate.

Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.

**Prerequisites:** senior standing; completion of BME 310(P) or ELECENG 310(P).

**Course Rules:** BME 437/ELECENG 437 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 439 Introduction to Biomedical Optics**

3 cr. Undergraduate/Graduate.

Tissue Optical Properties, Light Transport, Fourier Transforms in Spatial Domain, Wave theory, Spectroscopy, Optical imaging, Laser-Tissue interaction, Photoconversion, Photodynamic Therapy, Microscopy, Fluorescence imaging, and OCT.

**Prerequisites:** senior standing; ELECENG 310(P) or BME 310 (P).

**Course Rules:** BME 439/ELECENG 439 are jointly offered and count as repeats of each other.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 439G Introduction to Biomedical Optics**

3 cr. Undergraduate/Graduate.

Tissue Optical Properties, Light Transport, Fourier Transforms in Spatial Domain, Wave theory, Spectroscopy, Optical imaging, Laser-Tissue interaction, Photoconversion, Photodynamic Therapy, Microscopy, Fluorescence imaging, and OCT.

**Prerequisites:** senior standing; ELECENG 310(P) or BME 310 (P).

**Course Rules:** BME 439/ELECENG 439 are jointly offered and count as repeats of each other.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 495 Biomedical Instrumentation Laboratory**

3 cr. Undergraduate.

Characteristics of measurement systems, experiment planning, sensor and system calibration, measurement of basic quantities, first and second order systems, data acquisition and processing, experimental projects.

**Prerequisites:** BME 305(C) or BME 306(C), BME 310(C), and BME 325(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 585 Advanced Biomaterials**

3 cr. Undergraduate/Graduate.

Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering.

**Prerequisites:** senior standing; MATLENG 385(P) or BME 385(P); or consent of instructor.

**Course Rules:** BME 585 and MATLENG 585 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 585G Advanced Biomaterials**

3 cr. Undergraduate/Graduate.

Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering.

**Prerequisites:** senior standing; MATLENG 385(P) or BME 385(P); or consent of instructor.

**Course Rules:** BME 585 and MATLENG 585 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 595 Capstone Design Project**

4 cr. Undergraduate.

Introduction to design process and ethics; Students work in teams to plan, design, and test in a simulated real-world environment; formal oral and written reports.

**Prerequisites:** senior standing; BME 495(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 599 Senior Thesis**

1-3 cr. Undergraduate.

Independent research under the direction of a faculty member; submission of a written thesis required. 3 cr total required.

**Prerequisites:** senior standing; consent of instructor.

**Course Rules:** May be retaken to max of 3 cr.

**Last Taught:** Summer 2023, Fall 2022, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BME 690 Topics in Biomedical Engineering:**

3 cr. Undergraduate/Graduate.

Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to a max of 9 cr.**Last Taught:** Spring 2023, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 690G Topics in Biomedical Engineering:**

3 cr. Undergraduate/Graduate.

Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to a max of 9 cr.**Last Taught:** Spring 2023, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 699 Independent Study**

1-3 cr. Undergraduate/Graduate.

In consultation with a faculty advisor, student will develop the study plan on a topic related to biomedical engineering.

**Prerequisites:** junior standing, consent of instructor and CEAS Associate Dean.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 699G Independent Study**

1-3 cr. Undergraduate/Graduate.

In consultation with a faculty advisor, student will develop the study plan on a topic related to biomedical engineering.

**Prerequisites:** junior standing, consent of instructor and CEAS Associate Dean.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 720 Machine Perception**

3 cr. Graduate.

Fundamentals of computer vision and graphics, fundamentals of human-machine interaction, object sensing and tracking, virtual/augmented reality, automatic human behavior analysis, and biomedical applications.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 733 Sensors and Systems**

3 cr. Graduate.

Physical principles and working of sensors, interfacing, and sensor networks.

**Prerequisites:** graduate standing and ELECENG 305(P) or consent of instructor.**Course Rules:** BME 733, ELECENG 733, and MECHENG 733 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 888 Candidates for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 890 Special Topics:**

3 cr. Graduate.

Lectures on special topics in biomedical engineering. Variable content course. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** graduate standing.**Course Rules:** May be repeated with change in topic to 9 cr max.**Last Taught:** Spring 2023, Fall 2020, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 990 Masters Thesis**

1-9 cr. Graduate.

Masters thesis research.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Repeatable to 36 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 998 Doctoral Thesis**

1-12 cr. Graduate.

Doctoral thesis is a part of degree requirements.

**Prerequisites:** grad st; cons instr & grad prog committee.**Course Rules:** Re-takeable up to 99 credits.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BME 999 Advanced Independent Study**

1-3 cr. Graduate.

Advanced Independent Study

**Prerequisites:** grad st & cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Biomedical Sciences (BMS)

**BMS 101 Introduction to Clinical Laboratory Sciences**

2 cr. Undergraduate.

Lecture and laboratory instruction to introduce the student to the profession of clinical laboratory sciences with special emphasis in medical technology and cytotechnology.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 201 Sexually Transmitted Diseases and AIDS**

3 cr. Undergraduate.

Introductory course examining epidemiology, physiology, and microbiology of sexually transmitted infectious diseases. Information on reproductive physiology, pathophysiology and clinical disease, prevention and current treatment strategies.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 202 Learning for Success**

1 cr. Undergraduate.

Collaborative course between academic and student affairs. Students develop and refine behaviors and skills necessary for achieving academic self-confidence and scholastic success. Fulfills a requirement for restoring academic good standing.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of BMS 290 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 204 Plagues, Pandemics, and Epidemics**

3 cr. Undergraduate.

Basic principles and concepts of infectious diseases recognized to be of major worldwide importance in terms of mortality and morbidity.

**Prerequisites:** none.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 205 Introduction to Diagnostic Medicine**

3 cr. Undergraduate.

This course will provide a framework for understanding medical diagnostic tests in terms of procedures, risks, interpretation of results and relevant science behind the tests.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 205X Introduction to Diagnostic Medicine**

3 cr. Undergraduate.

This course will provide a framework for understanding medical diagnostic tests in terms of procedures, risks, interpretation of results and relevant science behind the tests.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 232 Introduction to Nutrition**

3 cr. Undergraduate.

Fundamentals of human nutrition, functions and requirements of nutrients, nutritional needs throughout the life cycle.

**Prerequisites:** none.

**Course Rules:** Not open for cr to students with cr in Hlthsci 238 or BMS 332.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 232X Introduction to Nutrition**

3 cr. Undergraduate.

Fundamentals of human nutrition, functions and requirements of nutrients, nutritional needs throughout the life cycle.

**Prerequisites:** none.

**Course Rules:** Not open for cr to students with cr in Hlthsci 238 or BMS 332.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective**

3 cr. Undergraduate.

Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.

**Prerequisites:** sophomore standing or consent of instructor.

**Course Rules:** BMS/ComSDis/HCA/Kin/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 245X Client Diversity in Health Sciences: An Interdisciplinary Perspective**

3 cr. Undergraduate.

Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.

**Prerequisites:** sophomore standing or consent of instructor.

**Course Rules:** BMS/ComSDis/HCA/Kin/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 260 Introduction to Complementary and Integrative Health Approaches**

3 cr. Undergraduate.

Introduction to the philosophy, evidence and applications of diverse medical and health care systems, practices, and products that are not generally considered part of conventional western biomedicine.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 260X Introduction to Complementary and Integrative Health Approaches**

3 cr. Undergraduate.

Introduction to the philosophy, evidence and applications of diverse medical and health care systems, practices, and products that are not generally considered part of conventional western biomedicine.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 281 Dead Men Do Tell Tales: An Introduction to Forensic Science**

3 cr. Undergraduate.

A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.

**Prerequisites:** none.**Course Rules:** ANTHRO 281, BMS 281, CHEM 281, and CRM JST 281 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 285 Medicolegal Death Investigation**

3 cr. Undergraduate.

Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.

**Prerequisites:** none.**Course Rules:** Jointly-offered with & counts as repeat of Anthro/Chem/Crm Jst 285.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 290 Topics in Health Sciences:**

1-3 cr. Undergraduate.

Topics of current interest in the field of health sciences.

**Prerequisites:** specified in sem schedule whenever req'd for a topic.**Course Rules:** May be repeated with change in topic.**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance to Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 301 Human Pathophysiology: Fundamentals**

1 cr. Undergraduate.

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cell injury, inflammation, immunopathology, repair, regeneration and fibrosis.

**Prerequisites:** Bio Sci 203(P) or consent of instructor.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 301X Human Pathophysiology: Fundamentals**

1 cr. Undergraduate.

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cell injury, inflammation, immunopathology, repair, regeneration and fibrosis.

**Prerequisites:** Bio Sci 203(P) or consent of instructor.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 302 Human Pathophysiology: Organ Systems I**

1 cr. Undergraduate.

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover developmental and genetic disorders, neoplasms, nervous system, bones, joints, skeletal muscle.

**Prerequisites:** BMS 301(C) or cons instr.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 302X Human Pathophysiology: Organ Systems I**

1 cr. Undergraduate.

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover developmental and genetic disorders, neoplasms, nervous system, bones, joints, skeletal muscle.

**Prerequisites:** BMS 301(C) or cons instr.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 303 Human Pathophysiology: Organ Systems II**

1 cr. Undergraduate.

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cardiovascular, respiratory, blood and lymphoid systems, diabetes.

**Prerequisites:** BMS 301(C) or consent of instructor.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 303X Human Pathophysiology: Organ Systems II**

1 cr. Undergraduate.

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover cardiovascular, respiratory, blood and lymphoid systems, diabetes.

**Prerequisites:** BMS 301(C) or consent of instructor.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 304 Human Pathophysiology: Organ Systems III**

1 cr. Undergraduate.

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover gastrointestinal tract, pancreas, kidney, liver/biliary system, female and male reproductive systems.

**Prerequisites:** BMS 301(C) or consent of instructor.**Last Taught:** Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 304X Human Pathophysiology: Organ Systems III**

1 cr. Undergraduate.

Pathological mechanisms underlying disease states, diagnosis and treatment of these disorders; topics cover gastrointestinal tract, pancreas, kidney, liver/biliary system, female and male reproductive systems.

**Prerequisites:** BMS 301(C) or consent of instructor.**Last Taught:** Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 305 Human Pathophysiology: Organ Systems IV**

1 cr. Undergraduate.

Pathological mechanisms underlying disease states, diagnosis/treatment of these disorders. Topics: endocrine system, infectious and parasitic diseases, environmental and nutritional factors related to morbidity/mortality.

**Prerequisites:** BMS 301(C) or consent of instructor.**Last Taught:** Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**BMS 305X Human Pathophysiology: Organ Systems IV**

1 cr. Undergraduate.

Pathological mechanisms underlying disease states, diagnosis/treatment of these disorders. Topics: endocrine system, infectious and parasitic diseases, environmental and nutritional factors related to morbidity/mortality.

**Prerequisites:** BMS 301(C) or consent of instructor.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 314X Human Pathophysiology I**

3 cr. Undergraduate.

Study of human pathological processes. Emphasis is on interrelationships among organ systems and deviations from homeostasis.

**Prerequisites:** Bio Sci 202(P) & 203(P).

**Course Rules:** Counts as repeat of BMS 301 or BMS 302 or BMS 303.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 315X Human Pathophysiology II**

2 cr. Undergraduate.

Study of human pathological processes. Emphasis is on interrelationships among organ systems and deviations from homeostasis.

**Prerequisites:** Bio Sci 202(P) & 203(P).

**Course Rules:** Counts as repeat of BMS 304 or BMS 305.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 332 Clinical Nutrition**

2 cr. Undergraduate.

Nutritional needs throughout life; relationships between food habits and health problems; evaluating dietary information for deficiencies and imbalances.

**Prerequisites:** Chem 103(P), Bio Sci 202(P) & 203(P), or BMS 232(P) or HlthSci 232(P).

**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 335 Echocardiography I**

3 cr. Undergraduate.

Introduction to normal cardiovascular anatomy, the normal ultrasound exam and protocol for an echocardiogram.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2009, Fall 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 350 Histotechnology I**

3 cr. Undergraduate.

Fundamental theory and aspects of histotechnology techniques including fixation, processing, embedding, microtomy and staining. Laboratory operation topics are also covered such laboratory math, quality control and compliance related to histology laboratories.

**Prerequisites:** junior standing or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 351 Histotechnology II**

3 cr. Undergraduate.

Continuation of Histotechnology I. Introduction to fundamental histotechniques such as special stains, immunohistochemistry, cytology staining, enzyme histochemistry and in situ hybridization.

**Prerequisites:** BMS 350(P) or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 403 Sonographic Physics I**

1 cr. Undergraduate.

Study of the basic principles of acoustic transmission, reflection in tissues and transducer design in pulse echo systems.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 404 Sonographic Physics II**

1 cr. Undergraduate.

Study of the basic principles of near zone, far zone, beam profiles, beam focusing, transducer arrays.

**Prerequisites:** jr st in BioMed Sci prog) or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 405 Sonographic Physics III**

1 cr. Undergraduate.

Study of the basic principles of Doppler, acoustical exposure measurements, QA, bioeffects and the ALARA principle.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 406 Diagnostic Medical Sonography (DMS) Abdomen I**

4 cr. Undergraduate.

Study of normal and abnormal sonograms of the peritoneal space, pre-vertebral vessels, liver, biliary, pancreas and kidneys will be discussed.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 407 Diagnostic Medical Sonography (DMS) Abdomen II**

4 cr. Undergraduate.

Study of normal and abnormal sonograms of the spleen, transplant imaging, GI imaging and dedicated pediatric imaging will be discussed.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 408 Vascular Sonography: CV & PV-Arterial**

5 cr. Undergraduate.

Study of cerebrovascular anatomy, normal and abnormal, and ultrasound imaging, upper arterial ultrasound exams, anatomy and pathology and lower extremity arterial ultrasound.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 409 Vascular Technology: Advanced**

4 cr. Undergraduate.

Study of peripheral vascular direct and indirect arterial and venous, normal and abnormal and abdominal Doppler.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 410 Sonography Clinical Internship I**

5 cr. Undergraduate.

Students will successfully complete sonography clinical competency examinations, under the supervision of the clinical instructors.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 411 Sonography Clinical Internship II**

5 cr. Undergraduate.

Students will successfully complete sonography clinical competency examinations, under the supervision of the clinical instructors.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 420 Clinical Hematology**

3 cr. Undergraduate/Graduate.

Lectures in the production, regulation, function, and cytomorphology of normal hematopoietic elements. Introduction to hemostasis theory.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 420G Clinical Hematology**

3 cr. Undergraduate/Graduate.

Lectures in the production, regulation, function, and cytomorphology of normal hematopoietic elements. Introduction to hemostasis theory.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 421 Introduction To Hematology Laboratory**

1 cr. Undergraduate.

Clinical laboratory experiences in basic hematology techniques and instrumentation to evaluate hematopoietic elements. 3 hr lab.

**Prerequisites:** jr st in BioMed Sci prog or cons instr; BMS 420(C).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 427 Clinical Immunology**

3 cr. Undergraduate/Graduate.

Fundamentals of Clinical Immunology, including cellular, humoral and molecular aspects. Correlation of laboratory test results with clinical disease states.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 427G Clinical Immunology**

3 cr. Undergraduate/Graduate.

Fundamentals of Clinical Immunology, including cellular, humoral and molecular aspects. Correlation of laboratory test results with clinical disease states.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 428 Clinical Immunology Laboratory**

1 cr. Undergraduate.

Laboratory experiments in clinical immunology and theories of testing concepts. 3 hr lab.

**Prerequisites:** jr st in BioMed Sci prog or cons instr; BMS 427(C).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 431 Clinical Chemistry**

3 cr. Undergraduate/Graduate.

Correlation of clinical chemistry with the pathophysiology of human disease.

**Prerequisites:** jr st; Chem 501(P) or cons instr; or grad st.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 431G Clinical Chemistry**

3 cr. Undergraduate/Graduate.

Correlation of clinical chemistry with the pathophysiology of human disease.

**Prerequisites:** jr st; Chem 501(P) or cons instr; or grad st.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 432 Clinical Chemistry Laboratory Theory & Operations**

1 cr. Undergraduate.

Theory and application of Clinical Chemistry laboratory principles. Focus on laboratory principles, quality assurance, theory of instrumentation, and laboratory problem solving.

**Prerequisites:** jr st in BioMed Sci prog or cons instr; Chem 501(P);

BMS 431(C).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 433 Teamwork in the Health Professions**

3 cr. Undergraduate.

Develop and demonstrate competency in best practices for professionalism, roles, responsibilities, teamwork, communication, ethics, and collaboration to improve the quality and safety of patient care.

**Prerequisites:** sr st or cons instr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 433X Teamwork in the Health Professions**

3 cr. Undergraduate.

Develop and demonstrate competency in best practices for professionalism, roles, responsibilities, teamwork, communication, ethics, and collaboration to improve the quality and safety of patient care.

**Prerequisites:** sr st or cons instr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 434 Professional Development in the Health Sciences**

3 cr. Undergraduate.

Knowledge and understanding about professional volunteerism, leadership, legislative, and advocacy efforts, certification and licensure, career pathways, growth, and advancement.

**Prerequisites:** sr st or cons instr.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 434X Professional Development in the Health Sciences**

3 cr. Undergraduate.

Knowledge and understanding about professional volunteerism, leadership, legislative, and advocacy efforts, certification and licensure, career pathways, growth, and advancement.

**Prerequisites:** sr st or cons instr.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 435 Foundations of Interprofessional Education and Practice**

3 cr. Undergraduate.

Learning in this course is based on the IPEC Core Competencies for Interprofessional Collaborative Practice and principles of cultural engagement.

**Prerequisites:** junior standing or greater.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 435X Foundations of Interprofessional Education and Practice**

3 cr. Undergraduate.

Learning in this course is based on the IPEC Core Competencies for Interprofessional Collaborative Practice and principles of cultural engagement.

**Prerequisites:** junior standing or greater.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 459 Introduction to 3D/4D Ultrasound**

3 cr. Undergraduate.

Comparison of normal and pathological anatomy cases utilizing two, three and four dimensional sonography techniques.

**Prerequisites:** junior standing in BioMedical Science program or consent of instructor.**Last Taught:** Fall 2013, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 459X Introduction to 3D/4D Ultrasound**

3 cr. Undergraduate.

Comparison of normal and pathological anatomy cases utilizing two, three and four dimensional sonography techniques.

**Prerequisites:** junior standing in BioMedical Science program or consent of instructor.**Last Taught:** Fall 2013, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 462 Seminar in Ultrasound Research**

3 cr. Undergraduate.

Student is assigned to a research project and mentor in didactic one-on-one sessions and performing clinical studies.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 472 Radiographic Anatomy and Physiology IV**

3 cr. Undergraduate.

Structure and physiology of the human body as they relate to radiography of the remaining systems. The physiochemical process.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Fall 2012, Fall 2011, Fall 2010, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 476 Radiographic Exposure IV**

3 cr. Undergraduate.

Digital imaging concepts and conversion problems, qualities of contrast, density, detail, and distortion.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Spring 2013, Spring 2012, Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 481 Criminalistics**

3 cr. Undergraduate.

Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P); Crm Jst 480 (P).**Course Rules:** Anthro 481, Chem 481, BMS 481, & Crm Jst 481 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2016, Spring 2012, Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance to Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance to Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 501 Introduction to Cytotechnology**

1 cr. Undergraduate.

Fieldwork to include lecture and laboratory instruction introducing the profession of Cytotechnology with emphasis on the role, responsibility, and ethics of the profession.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.**Last Taught:** Fall 2013, Fall 2012, Fall 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 517 Laboratory Technology: Theory and Practice**

2 cr. Undergraduate.

Introduction to common biomedical laboratory techniques and begin development of independent biomedical researchers.

**Prerequisites:** BMS 427(P), BMS 428(P), BMS 560(P), and BMS 561(P); or consent of instructor.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 518 Experimental Design and Research in Biomedical Sciences**

1 cr. Undergraduate.

Introduction to principles of experimental design in the biomedical research setting toward development as independent biomedical researchers.

**Prerequisites:** BMS 427(P), BMS 428(P), BMS 560(P), and BMS 561(P); or consent of instructor.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 521 Applied Clinical Hematology**

2 cr. Undergraduate.

Instruction in hematological laboratory techniques and the pathophysiology of disease of the reticuloendothelial system using case studies as a basis of discussion.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 522 Hemostasis**

1 cr. Undergraduate.

Correlation of basic theories of the hemostatic system with normal and abnormal clinical laboratory results. Introduction to basic methodology employed in differential diagnosis of hemostatic disorders.

**Prerequisites:** sr st in BioMed Sci prog or cons prog dir.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 523 Lectures in Advanced Clinical Hematology**

1 cr. Undergraduate.

Lectures dealing with abnormalities of hematopoiesis, and the blood dyscrasias, and examination of bone marrow and lymphnodes.

**Prerequisites:** BMS 420(320)(P) or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 524 Advanced Clinical Hematology Practicum**

3 cr. Undergraduate.

Practical experience in the clinical laboratory dealing with both normal and abnormal hematology and body fluids.

**Prerequisites:** sr st in BioMed Sci prog or cons prog dir.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 529 Introduction to Immunohematology**

3 cr. Undergraduate.

An introduction to the fundamentals of immunohematology and clinical blood banking.

**Prerequisites:** BMS 427(P) or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 530 Immunohematology and Blood Banking Laboratory**

1 cr. Undergraduate.

Fundamental practical instruction in basic blood banking techniques.

**Prerequisites:** BMS 529(C) or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 531 Advanced Lectures in the Clinical Laboratory Sciences**

1 cr. Undergraduate.

Clinical applications and relationships within the various disciplines of clinical laboratory sciences including discussion of current topics of interest in diagnostic medicine.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 532 Advanced Clinical Immunohematology and Immunology**

3 cr. Undergraduate.

Practical instruction in clinical serology and immunohematology.

Correlation of test results with disease states.

**Prerequisites:** sr st in BioMed Sci prog or cons prog dir.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 534 Medical Microbiology**

3 cr. Undergraduate/Graduate.

Advanced comprehensive study of microorganisms that influence human health and disease. Emphasis on identification/diagnosis and microbial attributes and mechanisms that facilitate infectious disease.

**Prerequisites:** jr st & Bio Sci 383(303)(P); or grad st; or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 534G Medical Microbiology**

3 cr. Undergraduate/Graduate.

Advanced comprehensive study of microorganisms that influence human health and disease. Emphasis on identification/diagnosis and microbial attributes and mechanisms that facilitate infectious disease.

**Prerequisites:** jr st & Bio Sci 383(303)(P); or grad st; or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 535 Medical Microbiology Laboratory**

2 cr. Undergraduate/Graduate.

Formal systematic laboratory study of microorganisms important in human health and disease. Emphasis on current methods of detection, identification and treatment. 4 hr lab.

**Prerequisites:** jr st & Bio Sci 383(303)(P), or cons instr; BMS 534(C).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 535G Medical Microbiology Laboratory**

2 cr. Undergraduate/Graduate.

Formal systematic laboratory study of microorganisms important in human health and disease. Emphasis on current methods of detection, identification and treatment. 4 hr lab.

**Prerequisites:** jr st & Bio Sci 383(303)(P), or cons instr; BMS 534(C).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 536 Applied Clinical Microbiology**

2 cr. Undergraduate.

Lectures and laboratory dealing with the systematic study of bacteria of medical importance to humans.

**Prerequisites:** sr st in BioMed Sci prog or cons prog dir.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 537 Medical Parasitology and Mycology**

2 cr. Undergraduate/Graduate.

Lectures and laboratory dealings with the medically significant parasitic and mycotic agents of human disease.

**Prerequisites:** sr st in BioMed Sci prog; or grad st; or cons instr.**Last Taught:** Summer 2023, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 537G Medical Parasitology and Mycology**

2 cr. Undergraduate/Graduate.

Lectures and laboratory dealings with the medically significant parasitic and mycotic agents of human disease.

**Prerequisites:** sr st in BioMed Sci prog; or grad st; or cons instr.**Last Taught:** Summer 2023, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 538 Advanced Clinical Microbiology Practicum**

3 cr. Undergraduate.

Clinical instruction in techniques utilized for the diagnosis of infectious disease, including special culture techniques.

**Prerequisites:** sr st in BioMed Sci prog or cons prog dir.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 539 Public Health Microbiology**

2 cr. Undergraduate/Graduate.

The role of microbiological analysis in public health and the current techniques for detecting, identifying, and enumerating pathogenic microorganisms.

**Prerequisites:** jr st & Bio Sci 383(303)(P), or grad st; or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 539G Public Health Microbiology**

2 cr. Undergraduate/Graduate.

The role of microbiological analysis in public health and the current techniques for detecting, identifying, and enumerating pathogenic microorganisms.

**Prerequisites:** jr st & Bio Sci 383(303)(P), or grad st; or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 540 Public Health Microbiology Lab**

2 cr. Undergraduate/Graduate.

Current laboratory techniques for detecting, identifying, and enumerating pathogenic microorganisms.

**Prerequisites:** jr st, or cons instr**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 540G Public Health Microbiology Lab**

2 cr. Undergraduate/Graduate.

Current laboratory techniques for detecting, identifying, and enumerating pathogenic microorganisms.

**Prerequisites:** jr st, or cons instr**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 541 Urinalysis**

1 cr. Undergraduate.

Lecture and laboratory experience in clinical analysis of urine.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 542 Applied Clinical Chemistry**

2 cr. Undergraduate.

Systematic instruction in the laboratory determination of substances of principal interest to the diagnosis of human disease.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 544 Advanced Clinical Chemistry Practicum**

3 cr. Undergraduate.

Experience in a hospital laboratory dealing with routine and specialized biochemical procedures and all phases of instrumentation currently used in this field.

**Prerequisites:** sr st in BioMed Sci prog or cons prog dir.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 545 Human Histology**

3 cr. Undergraduate/Graduate.

A detailed study of the structure and function of human tissues.

**Prerequisites:** jr st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 545G Human Histology**

3 cr. Undergraduate/Graduate.

A detailed study of the structure and function of human tissues.

**Prerequisites:** jr st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 547 Clinical Laboratory Diagnosis**

2-5 cr. Undergraduate.

Lectures and laboratory covering special topics in the use of laboratory testing in clinical diagnosis of disease.

**Prerequisites:** senior standing in Biomedical Sciences program or consent of program director.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 548 Clinical Laboratory Practice**

5 cr. Undergraduate.

Experience in various laboratory techniques.

**Prerequisites:** sr st in BioMed Sci prog or cons prog dir.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 549 Professional Development in Clinical Laboratory Sciences**

3 cr. Undergraduate.

Discussion and participation in professional development activities.

Topics include: laboratory management, laboratory information systems, professional conduct, ethics, certification, job placement, and educational methodologies.

**Prerequisites:** senior standing in BioMedical Science program or consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 552 Advanced Nutrition**

2 cr. Undergraduate/Graduate.

Nutrient utilization and human metabolism, nutritional influences in anthropology, epidemiology and international development issues.

**Prerequisites:** jr st; BMS 232(P) or Bio Sci 501(P).**Last Taught:** Spring 2008, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 552G Advanced Nutrition**

2 cr. Undergraduate/Graduate.

Nutrient utilization and human metabolism, nutritional influences in anthropology, epidemiology and international development issues.

**Prerequisites:** jr st; BMS 232(P) or Bio Sci 501(P).**Last Taught:** Spring 2008, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 555 Toxicology and Therapeutic Drug Monitoring**

1 cr. Undergraduate/Graduate.

Survey of the pharmacology and analytical methods for identification and quantitation of therapeutic and toxic substances.

**Prerequisites:** jr st, & Chem 341(P) or 345(P); or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 555G Toxicology and Therapeutic Drug Monitoring**

1 cr. Undergraduate/Graduate.

Survey of the pharmacology and analytical methods for identification and quantitation of therapeutic and toxic substances.

**Prerequisites:** jr st, & Chem 341(P) or 345(P); or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 560 Molecular and Genetic Diagnostics**

2 cr. Undergraduate/Graduate.

Introduction to principles and applications of DNA technology in the clinical laboratory.

**Prerequisites:** jr st, Bio Sci 325 (P); or grad st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 560G Molecular and Genetic Diagnostics**

2 cr. Undergraduate/Graduate.

Introduction to principles and applications of DNA technology in the clinical laboratory.

**Prerequisites:** jr st, Bio Sci 325 (P); or grad st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 561 Molecular Diagnostics Laboratory**

1 cr. Undergraduate/Graduate.

Clinical laboratory experiences in molecular diagnostic techniques and instrumentation.

**Prerequisites:** jr st & BMS 560(C); or grad st & BMS 705(P); or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 561G Molecular Diagnostics Laboratory**

1 cr. Undergraduate/Graduate.

Clinical laboratory experiences in molecular diagnostic techniques and instrumentation.

**Prerequisites:** jr st & BMS 560(C); or grad st & BMS 705(P); or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 575 Cytology of the Female Genital Tract - I**

4 cr. Undergraduate.

Fieldwork to include lectures discussing the normal and abnormal cytology of the female genital tract.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.**Last Taught:** Fall 2013, Fall 2012, Fall 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 576 Cytology of the Female Genital Tract - II**

4 cr. Undergraduate.

Fieldwork to include laboratory experience dealing with the study of the normal and abnormal cytology of the female genital tract.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.**Last Taught:** Fall 2013, Fall 2012, Fall 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 577 Cytology of the Respiratory Tract**

3 cr. Undergraduate.

Lectures and laboratory experience in the study of the normal and abnormal cytology of the respiratory tract.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.**Last Taught:** Fall 2013, Fall 2012, Fall 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 578 Cytology of the Gastrointestinal and the Genito-Urinary Tract**

2 cr. Undergraduate.

Fieldwork to include lecture and laboratory experience dealing with the normal and abnormal cytology of the G.I. and G.U. tracts.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.**Last Taught:** Spring 2014, Spring 2013, Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 579 Cytology of Effusions and the Central Nervous System**

3 cr. Undergraduate.

Fieldwork to include lecture and laboratory experiences in the study of various body fluids in health and disease.

**Prerequisites:** sr st in BioMed Sci & cons prog dir.**Last Taught:** Spring 2014, Spring 2013, Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 580 Aspiration Cytology**

4 cr. Undergraduate.

Fieldwork to include lecture and laboratory experience dealing with aspiration cytology.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.**Last Taught:** Spring 2014, Spring 2013, Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 581 Special Procedures in Cytology**

1 cr. Undergraduate.

Fieldwork to include lecture and laboratory experiences dealing with special procedures used in cytological diagnosis.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.**Last Taught:** Spring 2014, Spring 2013, Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 582 Cytology of the Breast**

1 cr. Undergraduate.

Fieldwork to include lecture and laboratory experiences dealing with the normal and abnormal cytology of the breast.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.**Last Taught:** Spring 2014, Spring 2013, Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 583 Cytology Preparation Techniques**

1 cr. Undergraduate.

Fieldwork to include laboratory preparation of gynecologic and non-gynecologic cytology specimens using several different instrument methodologies.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.

**Last Taught:** Summer 2014, Summer 2013, Summer 2012, Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 585 Internship in Forensic Toxicology**

1-3 cr. Undergraduate.

Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

**Course Rules:** Anthro 585, Chem 585, BMS 585, & Crm Jst 585 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 586 Cytology Lab Operations and Quality Control**

1 cr. Undergraduate.

Basic administrative functions and quality control procedures utilized in the cytology laboratory.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.

**Last Taught:** Spring 2014, Spring 2013, Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 587 Research Methods in Cytology**

1 cr. Undergraduate.

Research methods in cytology through journal club, literature reviews, case studies, and library research.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.

**Last Taught:** Summer 2014, Summer 2013, Summer 2012, Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 588 Diagnostic Microscopy in Cytology**

5 cr. Undergraduate.

Fieldwork in a functioning cytotechnology laboratory.

**Prerequisites:** sr st in BioMed Sci prog & cons prog dir.

**Last Taught:** Summer 2014, Summer 2013, Summer 2012, Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 589 Internship in Death Investigation**

1-3 cr. Undergraduate.

Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P); Crm Jst 480(P); BMS 620(R); Hepatitis B vaccine series or waiver.

**Course Rules:** Anthro 589, Chem 589, BMS 589 & Crm Jst 589 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Fall 2022, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 590 Topics in Clinical Laboratory Sciences:**

1-5 cr. Undergraduate/Graduate.

Topics of current interest in the field of clinical laboratory sciences. The major theme for each semester offering will be posted.

**Prerequisites:** junior standing; consent of instructor for graduate credit.

**Course Rules:** May be retaken with change in topic to max of 9 cr for grad students.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 590X Topics in Clinical Laboratory Sciences:**

1-5 cr. Undergraduate/Graduate.

Topics of current interest in the field of clinical laboratory sciences. The major theme for each semester offering will be posted.

**Prerequisites:** junior standing; consent of instructor for graduate credit.

**Course Rules:** May be retaken with change in topic to max of 9 cr for grad students.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 594 Internship in Forensic Science**

1-3 cr. Undergraduate.

On-site shadowing of evidence analyst at State Crime Laboratory.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS/ Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

**Course Rules:** Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023, Spring 2020, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 599 Independent Study**

1-3 cr. Undergraduate.

Individualized experience which enables the student to study current topics of interest to the clinical laboratory scientist. Level of credit assigned based on time required for completion.

**Prerequisites:** cons instr & prog dir.

**Course Rules:** May be retaken to 12 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 600 Contrast Diagnostic Imaging**

3 cr. Undergraduate/Graduate.

Use of contrast media in medical imaging diagnostic procedures.

**Prerequisites:** junior standing in BioMedical Science program; ARRT, ARDMS, or CCI Imaging Certification or completion of an Introductory Diagnostic Imaging course.

**Last Taught:** Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 600G Contrast Diagnostic Imaging**

3 cr. Undergraduate/Graduate.

Use of contrast media in medical imaging diagnostic procedures.

**Prerequisites:** junior standing in BioMedical Science program; ARRT, ARDMS, or CCI Imaging Certification or completion of an Introductory Diagnostic Imaging course.

**Last Taught:** Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 601 Molecular Imaging for Diagnostic Imaging**

3 cr. Undergraduate/Graduate.

Study of imaging principles utilized with molecular imaging. To include review of scientific publications for the use of molecular imaging to review various disease processes.

**Prerequisites:** junior standing in BioMedical Science program; ARRT, ARDMS, or CCI Imaging Certification or completion of an introductory Diagnostic Imaging course.

**Last Taught:** Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 601G Molecular Imaging for Diagnostic Imaging**

3 cr. Undergraduate/Graduate.

Study of imaging principles utilized with molecular imaging. To include review of scientific publications for the use of molecular imaging to review various disease processes.

**Prerequisites:** junior standing in BioMedical Science program; ARRT, ARDMS, or CCI Imaging Certification or completion of an introductory Diagnostic Imaging course.

**Last Taught:** Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 610 Pharmacology**

3 cr. Undergraduate/Graduate.

Lectures on pharmacokinetics, mechanisms of action, and physiological effects of toxic and therapeutic substances.

**Prerequisites:** jr st, Chem 501(P), or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 610G Pharmacology**

3 cr. Undergraduate/Graduate.

Lectures on pharmacokinetics, mechanisms of action, and physiological effects of toxic and therapeutic substances.

**Prerequisites:** jr st, Chem 501(P), or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 615 Cellular and Molecular Toxicology**

3 cr. Undergraduate/Graduate.

Cellular and molecular mechanisms of toxicant interactions with critical target organelles and molecules and subsequent downstream cellular responses.

**Prerequisites:** jr st, Chem 501(P) or cons instr; or grad st.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 615G Cellular and Molecular Toxicology**

3 cr. Undergraduate/Graduate.

Cellular and molecular mechanisms of toxicant interactions with critical target organelles and molecules and subsequent downstream cellular responses.

**Prerequisites:** jr st, Chem 501(P) or cons instr; or grad st.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 701 Human Pathophysiology I**

3 cr. Graduate.

An advanced course in basic pathological mechanisms underlying production of human disease and effects on selected organ systems.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 702 Human Pathophysiology II**

3 cr. Graduate.

A continuation of 701 dealing with pathogenesis of the major diseases of human organ systems.

**Prerequisites:** grad st; BMS 701(P) or cons instr.

**Last Taught:** Spring 2021, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 705 Molecular Pathology**

3 cr. Graduate.

Principles, methods, and applications of nucleic acid-based technologies in pathology and laboratory medicine.

**Prerequisites:** grad st or cons instr.

**Course Rules:** Counts as repeat of BMS 590 with similar topic.

**Last Taught:** Fall 2017, Fall 2015, Fall 2013, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 710 Seminar in Biomedical Sciences**

1 cr. Graduate.

Presentation of topics of current interest to the biomedical scientist.

**Prerequisites:** grad st or cons instr.

**Course Rules:** May be repeated to max of 9 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 717 Laboratory Technology-Theory and Practice**

2 cr. Graduate.

Fundamental laboratory bench techniques common to the biological sciences to prepare students for independent research.

**Prerequisites:** graduate standing or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 718 Experimental Design and Research in Biomedical Sciences**

1 cr. Graduate.

Fundamentals of experimental design for beginning graduate students in Biomedical Sciences.

**Prerequisites:** grad st; biostatistics or undergraduate statistics course or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 750 Infection and Immunity**

3 cr. Graduate.

Immunobiology of the response to infectious disease agents of humans, with resulting clinical outcomes; mechanisms of immune evasion in establishing infection and causing disease.

**Prerequisites:** grad st; Lec courses in immunology and microbiology or cons instr

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 751 Immunopathology**

3 cr. Graduate.

Examination of mechanisms by which abnormal, unwanted, or absent immune responses result in disease, including discussion of clinical presentation, diagnostic testing, and therapeutic intervention.

**Prerequisites:** grad st; BMS 750(P) or cons instr

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**BMS 756 Current Concepts in Cancer**

3 cr. Graduate.

An overview of various forms of human cancer. Emphasis on cell markers and cytomorphology, etiology and kinetics.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 765 Molecular Pathophysiology**

3 cr. Graduate.

Advanced theoretical skills and an appreciation of the current scientific literature in basic and clinical physiologic chemistry.

**Prerequisites:** grad st or cons instr; basic college chemistry class suggested

**Last Taught:** Spring 2022, Spring 2018, Spring 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 766 Advanced Cardiovascular Hemodynamics**

3 cr. Graduate.

Study of fundamental principles of fluid mechanics as applicable to physiologic and biological systems. Topics include Poiseuille flow, circulatory flow resistance.

**Prerequisites:** Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 767 Comparative Analysis of Diagnostic Imaging**

3 cr. Graduate.

Study of imaging principles evoked in utilizing multiple imaging modalities (DMS, CT, MRI and radiographic imaging) of both the normal and pathology findings.

**Prerequisites:** Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 768 Diagnostic Imaging of Acquired Heart Disease**

3 cr. Graduate.

In-depth study of how acquired heart disease is imaged in the adult patient.

**Prerequisites:** Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 769 Diagnostic Imaging for Management of Cardiovascular Disease**

3 cr. Graduate.

In-depth study of imaging used to monitor surgical and medical management of patients with cardiovascular disease.

**Prerequisites:** Admission to Biomed Sci MS program; ARRT, ARDMS, or CCI Imaging Certification or completion of introductory course in diagnostic imaging

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 775 Mechanisms of Infectious Disease**

3 cr. Graduate.

Molecular and cellular means by which microorganisms facilitate infection, withstand or evade immune response, induce damage to host, and ensure transmission to human populations.

**Prerequisites:** graduate standing; 1c & 1a course in medical microbiology.

**Last Taught:** Spring 2020, Spring 2018, Spring 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 780 Emerging Infectious Diseases**

3 cr. Graduate.

Detailed studies of those infectious diseases with both an emerging nature and a high impact on public health.

**Prerequisites:** grad st; background in microbiology, BMS 534 or BMS 539 or BioSci 383 (R)

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 782 Advanced Immunology**

3 cr. Graduate.

Cellular basis of the immune response with emphasis on immunoregulation and clinical disease manifestations resulting from altered cellular immune function.

**Prerequisites:** grad st; course in immunology; or cons instr.

**Last Taught:** Spring 2010, Spring 2006, Spring 2004, Spring 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 799 Research in Biomedical Sciences**

1-8 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 890 Capstone Project**

2 cr. Graduate.

Capstone for the Biomedical Sciences MS non-thesis track.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** May be retaken one time; no more than 2 credits in total allowed for BMS 890.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 901 Seminar on Philosophical Approaches to Science**

3 cr. Graduate.

The nature and function of sciences, the logic of the scientific method as it relates to health, and implications of research and practices in health care.

**Prerequisites:** graduate standing.

**Course Rules:** BMS 901 and LIBRLST 901 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 909 Guided Teaching Experience in Health Sciences**

3 cr. Graduate.

This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.

**Prerequisites:** graduate standing, one of the following: ATRAIN 900(P), OCCTHPY 900(P), PRPP 900(P), or PT 900(P), and consent of instructor.

**Course Rules:** Satisfactory/Unsatisfactory only. ATRAIN 909, BMS 909, COMSDIS 909, HCA 909, KIN 909, OCCTHPY 909, PT 909, and PRPP 909 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BMS 910 Advanced Seminar in Health Sciences**

1 cr. Graduate.

Faculty, students, and guests present research topics in the Health Sciences.

**Prerequisites:** grad st**Course Rules:** Retakable to 4 cr max.**Last Taught:** Fall 2022, Fall 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 990 Research and Dissertation**

1-6 cr. Graduate.

Preparation of a dissertation under the direction of the student's primary and secondary advisors.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2022, Summer 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BMS 999 Advanced Independent Study**

1-3 cr. Graduate.

Individualized experience enables student to study current topics of interest to the biomedical scientist. Level of credit assigned based on time required for completion.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Repeatable to 9 cr max.**Last Taught:** Fall 2021, Summer 2021, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Business Administration (BUS ADM)

**BUS ADM 100 Introduction to Business**

3 cr. Undergraduate.

Introduction to the nature and functions of business, the culture of the business world and business education, and the skills to be successful in both.

**Prerequisites:** not open for cr or regis to Business jr, pre-Business sr, or Business sr.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 199 Entrepreneurship Independent Study**

1-3 cr. Undergraduate.

Independent work related to entrepreneurship.

**Prerequisites:** cons of Lubar School entrepreneurship instr.**Course Rules:** May be retaken once for cr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 200 Business and Society**

3 cr. Undergraduate.

Integrated understanding of sources of competitive/strategic advantage derived from corporate citizenship in the public policy, social, economics, and ecological environments.

**Prerequisites:** soph st.**Course Rules:** Counts as repeat of Bus Adm 295 w/same topic.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 201 Introduction to Financial Accounting**

4 cr. Undergraduate.

Introduction to accounting and financial reporting concepts for business students. Emphasizes use of financial statements by non-accountants. Basics of accounting and reporting methods.

**Prerequisites:** 12 completed credits; MATH 105(P) or MATH 108(P) or equiv.**Course Rules:** Counts as repeat of BUS ADM 207.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 202 Managerial Accounting**

3 cr. Undergraduate.

The analysis and interpretation of accounting information and use of spreadsheet programs for effective managerial planning, control, and decision making.

**Prerequisites:** sophomore standing and BUS ADM 201(P).**Course Rules:** Counts as a repeat of BUS ADM 302.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 207 Business Scholars: Introduction to Financial Accounting**

4 cr. Undergraduate.

Introduces financial accounting concepts and investigates current financial reporting issues. Develops ability to prepare financial statements and to understand and analyze annual reports of real-world companies.

**Prerequisites:** 12 completed credits; Math 105(P) or Math 108(P) or equivalent; admission to Business Scholars Program or department consent.**Course Rules:** Not open for cr to those w/ cr in BUS ADM 201.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 210 Statistical Modeling in Business Analytics**

4 cr. Undergraduate.

Introduces statistical models and methods used in business analytics. Topics include descriptive statistics, probability, hypothesis testing, simple linear regression, multiple regression, binary logistic regression, and regression trees.

**Prerequisites:** Sophomore standing; MATH 208(P) or MATH 211(P) or MATH 231(P).**Course Rules:** Counts as repeat of BUS ADM 211.**General Education Requirements:** QL B**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 211 Business Scholars: Statistical Modeling in Business Analytics**

4 cr. Undergraduate.

Introduces statistical models and methods used in business analytics. Topics include descriptive statistics, probability, hypothesis testing, linear and multiple regression, binary logistic regression, and regression trees. Applications to finance and marketing.

**Prerequisites:** Sophomore standing; admission to Business Scholars Program; MATH 208(P), MATH 211(P) or MATH 231(P).**Course Rules:** Not open for credit to students with credit in BUS ADM 210.**General Education Requirements:** QL B**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 230 Introduction to Information Technology Management**

4 cr. Undergraduate.

Information technology management concepts; their role in business; management of formal and informal information systems development; business problem solving and visualization using appropriate business techniques and tools.

**Prerequisites:** sophomore standing.

**Course Rules:** Counts as repeat of BUS ADM 231.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 231 Business Scholars: Introduction to Information Technology Management**

4 cr. Undergraduate.

Fundamental concepts and application of information technology to support the conduct and management of business activities. Lab tools include common applications software for data gathering, analysis, presentation, and visualization.

**Prerequisites:** admis to Business Scholars Program or consent of department.

**Course Rules:** Counts as repeat of BUS ADM 230.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 292 Introduction to Entrepreneurship and Small Business Formation**

3 cr. Undergraduate.

Explore elements necessary for entrepreneurship to flourish. Larger perspectives of the character and mental set of entrepreneurs and effect on the success of the business.

**Prerequisites:** soph st.

**Course Rules:** Counts as repeat of Bus Adm 295 with similar topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 295 Management Seminar:**

1-3 cr. Undergraduate.

Analysis of current topics and issues related to specific management areas of business. Specific topics and additional prerequisites may appear in the Schedule of Classes whenever the course is offered.

**Prerequisites:** none.

**Course Rules:** May be retaken with change in topic to max of 6 cr.

**Last Taught:** Fall 2023, Fall 2021, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 298 Study Abroad: Business Topics:**

3 cr. Undergraduate.

Immersion (including instruction at an international university) in the economic, cultural, and business practices of selected countries.

**Prerequisites:** soph st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic to max of 6 cr.

**Last Taught:** UWinteriM 2016, Summer 2015, Summer 2014, UWinteriM 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 300 Career and Professional Development**

1 cr. Undergraduate.

Skills necessary to enter the job market. Includes professional correspondence, resume writing, interviewing and networking skills, and professional etiquette.

**Prerequisites:** sophomore standing.

**Course Rules:** May not be retaken for credit. Not open for credit for those with credit in BUS ADM 303.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 301 Intermediate Accounting I**

4 cr. Undergraduate.

Understanding the economic impact of business transactions and serving the information needs of statement users. Use of accounting principles to guide financial reporting and disclosure.

**Prerequisites:** sophomore standing; MATH 208(P) or MATH 211(P);

BUS ADM 230(P) or BUS ADM 231(P); a grade of 'B' or better in BUS ADM 201(P) or BUS ADM 207(P) within three years of enrollment.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 303 Career Planning for Accounting**

1 cr. Undergraduate.

Skills necessary for success in the accounting profession. Includes professional correspondence, resume writing, interviewing and networking skills, professional etiquette and career planning and advancement.

**Prerequisites:** Sophomore standing and BUS ADM 301(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 305 Personal Investing and Financial Planning**

3 cr. Undergraduate.

Introduction to investing for individuals with emphasis on the personal planning process, issues, and strategies.

**Prerequisites:** soph st.

**Course Rules:** Not open for credit to Accounting majors who are concurrently enrolled or have completed Bus Adm 301.

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 330 Organizations**

3 cr. Undergraduate.

An introduction to human behavior in organizations, organizational structures and processes, and interactions between organizations and their environments. Students will examine various theories and research findings on selected topics.

**Prerequisites:** sophomore standing.

**Course Rules:** Counts as repeat of BUS ADM 331.

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 331 Business Scholars: Organizations**

3 cr. Undergraduate.

Behavioral theories and management principles for understanding behavior in organizations; individual and organizational processes, and their interaction. Includes current and classic research, and application.

**Prerequisites:** sophomore standing; admis to Business Scholars Program.

**Course Rules:** Not open for credit to those with credit in BUS ADM 330.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 335 Introduction to Business Application Development**

3 cr. Undergraduate.

Structured techniques for business application development; program design and development methodologies; testing and quality assurance; implementation with an appropriate language.

**Prerequisites:** sophomore standing; a grade of C or better in BUS ADM 230(P) or BUS ADM 231(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 336 Enterprise Systems and Data Analytics**

3 cr. Undergraduate.

Introduction to business processes and ERP, utilizing ERP to run business simulation game and analysis of results utilizing business analytics.

**Prerequisites:** soph st; a grade of 'C' or better in Bus Adm 230(P) or 231(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 350 Principles of Finance**

3 cr. Undergraduate.

Fundamentals of financial management, asset/liability valuations, risk and return, investment analysis, sources and uses of funds, cost of capital, and cash management.

**Prerequisites:** sophomore standing; ECON 103(P) and ECON 104(P); BUS ADM 201(P) or BUS ADM 207(P); BUS ADM 210(P) or BUS ADM 211(P).

**Course Rules:** Counts as repeat of BUS ADM 351. Not open for credit to those with credit in BUS ADM 450.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 351 Business Scholars: Principles of Finance**

3 cr. Undergraduate.

Fundamentals of financial management, analysis of financial statements, risk and return, debt/equity valuations, cost of capital, capital budgeting, capital structure, and dividend policies.

**Prerequisites:** soph st; admis to Business Scholars Prog; Econ 103(P) & 104(P); Bus Adm 207(P) & 211(C).

**Course Rules:** Not open for cr to those w/cr in Bus Adm 350.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 360 Principles of Marketing**

3 cr. Undergraduate.

The marketing system is analyzed as the process in our socioeconomic system for anticipating and satisfying consumer needs, adjusting to demand, and selling and procuring products and services. Competition, pricing, product line, distribution systems, promotion, and planning are discussed.

**Prerequisites:** jr st; Econ 104(P).

**Course Rules:** Counts as repeat of Bus Adm 361.

**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 361 Business Scholars: Principles of Marketing**

3 cr. Undergraduate.

Marketing theory and tactics in context of current external marketing environment. Discussion of current marketing issues, failures, and successes along with industry and company strategic differences. Analytical tools used for team project.

**Prerequisites:** jr st; admis to Business Scholars Prog; Econ 104(P).

**Course Rules:** Not open for cr to those w/cr in Bus Adm 360.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 370 Introduction to Supply Chain Management**

3 cr. Undergraduate.

Broad survey of the foundational concepts and principles of managing supply chain operations. Topic areas include customer management, purchasing, logistics, project management, demand planning.

**Prerequisites:** sophomore standing; BUS ADM 210(C) or BUS ADM 211(C).

**Course Rules:** Counts as repeat of BUS ADM 371.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 371 Business Scholars: Introduction to Supply Chain Management**

3 cr. Undergraduate.

Broad survey of foundational concepts and principles of managing supply chain operations. Topics include customer management, purchasing, logistics, project management, demand planning, quantitative and computer applications.

**Prerequisites:** soph st; admis to Business Scholars Prog; Bus Adm 211(P).

**Course Rules:** Not open for cr to those w/cr in Bus Adm 370.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 380 Introduction to Real Estate Markets**

3 cr. Undergraduate.

The course focuses on real estate investment decisions as they are made within the framework of institutional controls consisting of social, political, and economic forces.

**Prerequisites:** sophomore standing and ECON 104(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 389 Real Estate Internship**

3 cr. Undergraduate.

A faculty-supervised new work experience in the real estate area which covers a minimum of 150 hours during the semester.

**Prerequisites:** junior standing; BUS ADM 380(P); written consent of instructor.

**Course Rules:** Counts as repeat of BUS ADM 489. Credit/no credit only.

**Last Taught:** Summer 2023, Fall 2022, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 391 Business Law I**

3 cr. Undergraduate.

The court system, tort law, agency and employment law; contract law and sales transactions; professional liability; and legal ramifications of selecting appropriate business organization.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Bus Adm 390.

**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 393 Business Ethics, Social Responsibility and Sustainability**

3 cr. Undergraduate.

Ethical dimensions of economy, management decision-making, and corporate social responsibility. Ethical framework for assessment of business practices. Includes case discussions.

**Prerequisites:** sophomore standing.

**Course Rules:** Previously BUS ADM 293. Counts as repeat of BUS ADM 295 with similar topic.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 394 Human Resources Management Internship**

3 cr. Undergraduate.

A faculty-supervised new work experience in the human resources management area which covers a minimum of 150 hours during the semester.

**Prerequisites:** junior standing and admis to HRM or General Business major; written consent of instructor.

**Course Rules:** Credit/no credit only.

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 395 Special Topics in Business:**

1-3 cr. Undergraduate.

Current topics and issues related to specific management areas of business. Specific topics and additional prerequisites announced in Schedule of Classes whenever the course is offered.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to max of 9 cr. Counts as repeat of BUS ADM 295 or BUS ADM 495 with same topic.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 396 Finance Internship**

3 cr. Undergraduate.

A faculty-supervised new work experience in the finance area which covers a minimum of 150 hours during the semester.

**Prerequisites:** junior standing and admis to Finance or General Business major; written consent of instructor.

**Course Rules:** Credit/no credit only.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 397 Marketing Internship**

3 cr. Undergraduate.

A faculty-supervised new work experience in the marketing area which covers a minimum of 150 hours during the semester.

**Prerequisites:** junior standing and admis to Marketing or General Business major; written consent of instructor.

**Course Rules:** Credit/no credit only.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 398 Supply Chain & Operations Management Internship**

3 cr. Undergraduate.

A faculty-supervised new work experience in the SCOM area which covers a minimum of 150 hours during the semester.

**Prerequisites:** junior standing and admis to SCOM or General Business major; written consent of instructor.

**Course Rules:** Credit/no credit only.

**Last Taught:** Summer 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 400 Accounting Professional Internship**

3 cr. Undergraduate.

A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/public accounting environment.

**Prerequisites:** senior standing and admission to accounting major; BUS ADM 303(P), BUS ADM 405(P), and BUS ADM 409(P).

**Course Rules:** Considered full time for FA purposes. Credit/no credit only. Prior approval of intern director is required.

**Last Taught:** Spring 2023, Spring 2022, Summer 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 401 Introduction to Data Analytics in Accounting**

4 cr. Undergraduate/Graduate.

Fundamental concepts to develop an analytics mindset and perform and interpret various analytic procedures. Gain certification in Excel. Analyze business data using various software. Clearly communicate results of data analysis.

**Prerequisites:** junior standing or greater, admission to Business major (advanced to major milestone), and BUS ADM 301(C); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 401G Introduction to Data Analytics in Accounting**

4 cr. Undergraduate/Graduate.

Fundamental concepts to develop an analytics mindset and perform and interpret various analytic procedures. Gain certification in Excel. Analyze business data using various software. Clearly communicate results of data analysis.

**Prerequisites:** junior standing or greater, admission to Business major (advanced to major milestone), and BUS ADM 301(C); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 402 Intermediate Accounting II**

3 cr. Undergraduate.

Study of advanced financial accounting issues such as interim reporting, leases, specialized revenue recognition, tax allocation, dilutive securities, derivatives, and financial troubled entities.

**Prerequisites:** junior standing or greater, admission to Business major (advanced to major milestone), and a grade of B or better in BUS ADM 301(P); or graduate standing and a grade of B or better in BUS ADM 301(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 403 Consolidations and Governmental Accounting**

3 cr. Undergraduate.

Understand and apply concepts related to accounting for consolidations and for governmental and not-for-profit accounting.

**Prerequisites:** jr st & admis to Bus Adm major; a grade of B or better in Bus Adm 301(P); Bus Adm 402(C).

**Last Taught:** Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 404 Cost Management**

3 cr. Undergraduate.

Design, implementation, and use of optimal accounting systems for product and service costing, internal and external financial reporting, managerial decision support, and organizational control.

**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 405 Income Tax Accounting I**

3 cr. Undergraduate.

Introduction to tax issues inherent in business and financial transactions, with an emphasis on the federal individual and corporate income tax.

**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 301(P); or grad st & Bus Adm 721(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 406 Income Tax Accounting II**

3 cr. Undergraduate.

Application of framework developed in Income Tax Accounting I (BUS ADM 405) to more thoroughly analyze the taxation of business entities.

**Prerequisites:** junior standing, admis to Business major, and BUS ADM 405(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 408 Accounting Information Systems**

3 cr. Undergraduate/Graduate.

Introduction to accounting information systems and related technology, principles of accounting systems design, internal controls and coverage of commercial accounting software packages.

**Prerequisites:** junior standing or greater; admission to Business major (MAJADM milestone); and a grade of C or better in BUS ADM 301(P); or graduate standing and BUS ADM 721(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 408G Accounting Information Systems**

3 cr. Undergraduate/Graduate.

Introduction to accounting information systems and related technology, principles of accounting systems design, internal controls and coverage of commercial accounting software packages.

**Prerequisites:** junior standing or greater; admission to Business major (MAJADM milestone); and a grade of C or better in BUS ADM 301(P); or graduate standing and BUS ADM 721(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 409 Auditing: Procedures and Applications**

3 cr. Undergraduate.

An introduction to the audit process from an internal and external perspective with an emphasis on practical applications and technological innovations.

**Prerequisites:** junior standing, advanced to Business major, a grade of B or better in BUS ADM 301(P); BUS ADM 402(P) and BUS ADM 408(P); BUS ADM 401(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 410 Accountants' Ethical Responsibilities**

1 cr. Undergraduate.

Study of ethical and societal responsibilities and constraints that define and affect the practice of accountancy. Includes selected readings, guest speakers, and cases.

**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P); Bus Adm 409(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 424 US Institutions Shaping Accounting & Auditing Standards**

3 cr. Undergraduate.

U.S. accounting and auditing practices and the institutions that shape these practices, includes a visit to Washington D.C. regulatory agencies.

**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'B' or better in Bus Adm 301(P); cons of instr.

**Last Taught:** Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 432 Object-Oriented Systems Development**

3 cr. Undergraduate.

Object-oriented concepts and use in management applications; object-oriented design and development methodologies; managing programs and structures; implementation with an appropriate language.

**Prerequisites:** jr st & admis to Bus Adm major; a grade of 'C' or better in Bus Adm 335(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 434 Data Base Management Systems**

3 cr. Undergraduate.

Database concepts; data modeling; SQL; fourth generation languages; data resource management; client/server databases; implementation using commercial DBMS products.

**Prerequisites:** jr st & admis to Bus Adm major; grade of 'C' or better in Bus Adm 335(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 436 Systems Analysis and Design**

3 cr. Undergraduate.

Systems development methodologies; systems modeling, requirements specification, structured design, and systems implementation; use of automated development tools.

**Prerequisites:** jr st & admis to Bus Adm major; grade of 'C' or better in Bus Adm 335(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 438 Information Technology Management Topics:**

3 cr. Undergraduate.

Contemporary topics for IT practitioners. Typical offerings include distributed information systems, management of IT, decision support systems, end-user computing, multimedia systems. Additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st & admis to Bus Adm major; Grade 'C' or better in Bus Adm 335(P); or cons instr.

**Course Rules:** May be retaken w/chg in topic to max of 6 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 439 Information Technology Management Professional Internship**

3 cr. Undergraduate.

A defined FT one semester work period, potentially leading to FT employment in a corporate/governmental/management consulting environment.

**Prerequisites:** junior standing and admission to ITM or General Business major; BUS ADM 300(P) or BUS ADM 303(P); completion of one 400- or 500-level ITM course; and written consent of instructor.

**Course Rules:** Considered full time for FA purposes. Credit/no credit only.

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 440 Compensation Management**

3 cr. Undergraduate.

Ways organizations use wage and salary management to attract, retain, and motivate employees. Review of traditional and innovative compensation methods for administering pay.

**Prerequisites:** junior standing, admis to Business major, and BUS ADM 444(C); or graduate standing and BUS ADM 738(P).

**Course Rules:** Counts as repeat of BUS ADM 443 with similar title.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 441 Diversity in Organizations**

3 cr. Undergraduate.

Conceptual and experiential understanding of cultural values and practices among diverse groups in organizations. Addresses institutional and personal discrimination, stereotyping and prejudice.

**Prerequisites:** junior standing and admis to Bus Adm major; or non-Business major with 2.5 GPA; or consent of instructor.

**Course Rules:** Counts as repeat of BUS ADM 495 with similar topic and BUS ADM 443 with similar title.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 442 Industrial Psychology**

3 cr. Undergraduate/Graduate.

Application of psychological principles to industrial problems.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); & Psych 101(P).

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 442G Industrial Psychology**

3 cr. Undergraduate/Graduate.

Application of psychological principles to industrial problems.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); & Psych 101(P).

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 443 Special Topics in Human Resources Management:**

3 cr. Undergraduate/Graduate.

Selected topics in human resources management. Specific topics will appear in the Schedule of Classes whenever the course is offered.

**Prerequisites:** junior standing, advanced to Business major, BUS ADM 330(P) or BUS ADM 331(P); or graduate standing.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 443G Special Topics in Human Resources Management:**

3 cr. Undergraduate/Graduate.

Selected topics in human resources management. Specific topics will appear in the Schedule of Classes whenever the course is offered.

**Prerequisites:** junior standing, advanced to Business major, BUS ADM 330(P) or BUS ADM 331(P); or graduate standing.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 444 Human Resources Management**

3 cr. Undergraduate.

An examination of the personnel function of the enterprise as an activity concerning all managers within the firm. General topics include the personnel function, maximizing human potential, supervision, and wage and salary administration.

**Prerequisites:** junior standing and admis to Business major; and concurrent or previous completion of BUS ADM 330 or BUS ADM 331.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 445 Training & Development in Organizations**

3 cr. Undergraduate/Graduate.

Development and evaluation of training and career development programs in organizations. Skills-based approach to understanding needs assessments, learning principles, training development and evaluation.

**Prerequisites:** junior standing, admis to Bus Adm major, and BUS ADM 444(C); or graduate standing.

**Course Rules:** Counts as repeat of BUS ADM 443 with similar title. Not open to students with credit COMMUN 327(ER).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 445G Training & Development in Organizations**

3 cr. Undergraduate/Graduate.

Development and evaluation of training and career development programs in organizations. Skills-based approach to understanding needs assessments, learning principles, training development and evaluation.

**Prerequisites:** junior standing, admis to Bus Adm major, and BUS ADM 444(C); or graduate standing.

**Course Rules:** Counts as repeat of BUS ADM 443 with similar title. Not open to students with credit COMMUN 327(ER).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 446 Leadership and Team Building**

3 cr. Undergraduate.

Examines principles of leadership and team-building through theories, hands-on exercises, cases, and contemporaneous leadership, teamwork, and management challenges. Topics include: ethical leadership, power dynamics, managing and leading teams, leadership and teamwork skills.

**Prerequisites:** junior standing and advancement to Bus Adm major; BUS ADM 330(C) or BUS ADM 331(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 447 Entrepreneurship**

3 cr. Undergraduate.

Study of creation, growth/or acquisition of business through entrepreneurial efforts. Nature of entrepreneurship process and organization of growth oriented companies. Topics include recognizing opportunity, assembling resources, and growing the firm.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 448 Staffing Human Resources**

3 cr. Undergraduate.

Planning, recruiting, selection, and hiring functions in organizations within the context of its legal environment. Includes application of spreadsheet and data analysis.

**Prerequisites:** junior standing, admis to Business major and BUS ADM 444(C); or graduate standing and BUS ADM 738(P).

**Course Rules:** Counts as repeat of BUS ADM 443 with similar title.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 449 Human Resources Management Professional Internship**

3 cr. Undergraduate.

A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.

**Prerequisites:** junior standing and admission to HRM or General Business major; BUS ADM 300(P) or BUS ADM 303(P); completion of at least one 400-level course in the HRM major; and written consent of instructor.

**Course Rules:** Considered full time for FA purposes. Credit/no credit only.

**Last Taught:** Summer 2023, Summer 2022, Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 450 Intermediate Finance**

3 cr. Undergraduate.

Theories of valuation, corporate governance, and capital structure. Other topics explored such as dividend policy, financing methods, corporate and financial restructurings, and global financial management.

**Prerequisites:** jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 451 Investment Finance**

3 cr. Undergraduate.

A study of the financial system and institutions and the primary forces, which affect this system within which firms operate. Emphasis is on the instruments and interactions in the money and capital markets, and on analysis of firms for purposes and valuation of bonds and stocks for portfolio management.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 450(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 452 Applied Portfolio Management**

3 cr. Undergraduate.

Study institutional setting, legal framework, portfolio strategies, and innovations in investment markets. Explore securities valuation, risk management, behavioral study, and prospects of market developments.

**Prerequisites:** jr st; admis to Bus Adm major; Bus Adm 451(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 453 Corporate Finance Seminar**

3 cr. Undergraduate.

Integration of financial operations with other operations of a business unit, including working capital management, financial planning and financial control.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 450(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 454 Analysis of Options and Futures**

3 cr. Undergraduate.

Valuate interest rate, equity, and stock index futures and options. Develop strategies using these instruments in hedging interest rate and equity portfolio risk.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 451(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 455 Financial Institutions**

3 cr. Undergraduate.

Financial intermediation by banks and other financial institutions. Financial instruments and the markets where they trade. Term structure of interest rates and monetary issues.

**Prerequisites:** jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**BUS ADM 456 International Financial Management**

3 cr. Undergraduate.

Introduction to international financial markets, exchange rate determination theory, concepts/measurement of foreign risk exposure, financial instruments to hedge exchange risk, and financing multinational enterprises.

**Prerequisites:** jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 350(P) or 351(P); or an Accounting major with grade of B or better in Bus Adm 301(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 457 Financial Modeling**

3 cr. Undergraduate.

Development and application of computer-based financial models. Models from corporate finance and investments use Microsoft Excel and Visual Basic for Applications (VBA).

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 450(P) & 451(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 458 Venture Finance**

3 cr. Undergraduate.

Corporate financial perspectives. Key institutional features of venture finance. Assess financial need, value of and claims on new ventures. Analyze contracts between entrepreneurs and outside vendors.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 450(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 459 Finance Professional Internship**

3 cr. Undergraduate.

A defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.

**Prerequisites:** junior standing and admission to Finance or General Business major; BUS ADM 300(P) or BUS ADM 303(P); completion of at least one 400- or 500-level course in finance major; and written consent of instructor.

**Course Rules:** Considered full time for FA purposes. Credit/no credit only.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 460 Retail Management**

3 cr. Undergraduate.

Principles of retail management including merchandising, product design and development, sales, store management, distribution and inventory management, public relations and advertising.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

**Course Rules:** Counts as repeat of Bus Adm 467 with similar topic.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 461 Consumer Behavior**

3 cr. Undergraduate.

Interdisciplinary approach to study of buying behavior of consumers, with emphasis on implications for marketing of theory and findings from the behavioral sciences.

**Prerequisites:** junior standing & admis to Bus Adm major; BUS ADM 360(C) or BUS ADM 361(C).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 462 Marketing Research**

3 cr. Undergraduate.

Research process as an aid to decision-making in marketing management. Attention is given to planning research and the gathering, analysis, and interpretation of information.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 210(P) or 211(P); & 360(P) or 361(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 463 Marketing Management**

3 cr. Undergraduate.

Development and implementation of marketing plans. Strategic decision-making and organizational issues pertinent to target markets, advertising, personal selling, channels, pricing, and product development.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 461(P) & 462(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 464 Management of Promotion**

3 cr. Undergraduate.

Theory and concepts in developing and implementing communications strategies. Analysis of psychological, social and economic variables affecting promotion decisions.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 461(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 465 International Marketing**

3 cr. Undergraduate.

Focus is on the environment and on the modifications of marketing thinking and practices, occasioned by differences in economic, social and cultural settings of countries.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 466 Business to Business Sales and Marketing**

3 cr. Undergraduate.

Development, pricing, promotion and distribution of business productions and services targeted at organizational buyers. Special focus on business sales processes and effective personal selling strategies.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 360(P) or 361(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 467 Marketing Seminar.**

3 cr. Undergraduate.

In-depth focus on specialized topics in marketing such as business-to-business sales and marketing, database and interactive marketing, and international marketing research and strategies.

**Prerequisites:** junior standing and admis to Business major; BUS ADM 360(P) or BUS ADM 361(P).

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 468 Internet Marketing**

3 cr. Undergraduate.

Introduction to the principles of internet marketing, types of products that can be marketed online, communication and pricing strategies, customization, channel conflict resolution. Hands-on project required.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 461(P) or 462(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 469 Marketing Professional Internship**

3 cr. Undergraduate.

A defined FT work period, minimum 10 weeks, potentially leading to FT employment in corporate/governmental/management consulting environment.

**Prerequisites:** junior standing and admission to Marketing or General Business major; BUS ADM 300(P) or BUS ADM 303(P); completion of at least one 400-level course in the marketing major; and written consent of instructor.

**Course Rules:** Considered full time for FA purposes. Credit/no credit only.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 472 Special Topics in Supply Chain and Operations Management:**

3 cr. Undergraduate.

Selected contemporary topics and issues confronting supply chain and operations managers.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 475 Operations Planning and Control**

3 cr. Undergraduate.

Detailed focus on planning and controlling operations of a service or manufacturing operation. Topics include requirements planning and scheduling.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 476 Logistics and Transportation Management**

3 cr. Undergraduate.

Logistics and transportation themes including warehousing, third party logistics.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

**Course Rules:** Counts as repeat of Bus Adm 472 with similar topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 477 Purchasing and Supply Management**

3 cr. Undergraduate.

Domestic and global aspects of the purchasing function in an organization.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

**Course Rules:** Counts as repeat of Bus Adm 472 with similar topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 478 Supply Chain Analytics**

3 cr. Undergraduate.

Topics include linear and nonlinear optimization, network modeling, decision making under uncertainty, time series forecasting, and simulation modeling.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 370(P) or 371(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 479 Supply Chain & Operations Management Professional Internship**

3 cr. Undergraduate.

Defined FT work period, minimum 10 weeks, potentially leading to FT employment in a corporate/governmental/management consulting environment.

**Prerequisites:** junior standing and admission to SCOM or General Business major; BUS ADM 300(P) or BUS ADM 303(P); completion of at least one 400- or 500-level SCOM course; and written consent of instructor.

**Course Rules:** Considered full time for FA purposes. Cr/no cr only.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 481 Real Estate Finance & Asset Management**

3 cr. Undergraduate/Graduate.

Mechanism of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of government agencies; real estate investment analysis.

**Prerequisites:** junior standing, advanced to Business major and BUS ADM 380(P).

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 481G Real Estate Finance & Asset Management**

3 cr. Undergraduate/Graduate.

Mechanism of real estate finance, sources of funds, loan contracts, principles of mortgage risk analysis, and the role of government agencies; real estate investment analysis.

**Prerequisites:** junior standing, advanced to Business major and BUS ADM 380(P).

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 482 Valuation of Real Estate**

3 cr. Undergraduate/Graduate.

Economic theories of value applied to real estate; valuation as a guide to business decisions; real estate market which affects value; valuation methods, analysis of evidence of value; appraising residential and income properties.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 380(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 482G Valuation of Real Estate**

3 cr. Undergraduate/Graduate.

Economic theories of value applied to real estate; valuation as a guide to business decisions; real estate market which affects value; valuation methods, analysis of evidence of value; appraising residential and income properties.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 380(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 483 Property Development and Management**

3 cr. Undergraduate/Graduate.

Analysis of real estate development; consideration of site selections, market analysis, financing, design, and construction in connection with subdividing residential community development and shopping centers.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 481(P) or grad st.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 483G Property Development and Management**

3 cr. Undergraduate/Graduate.

Analysis of real estate development; consideration of site selections, market analysis, financing, design, and construction in connection with subdividing residential community development and shopping centers.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 481(P) or grad st.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 484 Real Estate Law**

3 cr. Undergraduate.

Advanced application of business law concepts related to real estate transactions and developments; landlord/tenant law; analysis of legal concerns unique to real estate industry.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 391(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 485 Environmental Issues in Real Estate**

3 cr. Undergraduate.

Survey course dealing with the impact of governmental environmental regulations on lender and developer liability. Topics include Phase 1 reporting, legal considerations, remediation, and wetland impacts.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 380(P).

**Last Taught:** Fall 2018, Fall 2017, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 486 Managing and Leasing Commercial Real Estate**

3 cr. Undergraduate.

Understand the core fundamentals of the commercial real estate management and leasing industry and the impact they have on the financial performance of investment real estate.

**Prerequisites:** BUS ADM 380(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 490 Entrepreneur Internship**

3 cr. Undergraduate.

A defined work period in an entrepreneurial capacity in a corporate, governmental, or management consulting environment.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 447(P) or completion of at least one 400-level course in student's major; writ cons instr instr.

**Course Rules:** Credit/no credit only.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 491 Legal Issues for Entrepreneurs**

3 cr. Undergraduate.

Legal issues confronting entrepreneurs including the areas of ethics, forms of business organization, sales contracts, employment, property and business succession.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 391(P).

**Course Rules:** Not open for credit to Business Scholars who completed Bus Adm 493 with similar topic. Not open for credit to Accounting majors.

**Last Taught:** Fall 2014, Fall 2004, Fall 2003, Summer 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 492 Business Modeling of New Ventures**

3 cr. Undergraduate.

Key elements in developing an effective business model; new venture ideas and strategies; the owner manager; management succession.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 292(P) or Bus Adm 447(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 493 Business Scholars: Seminar in Business:**

3 cr. Undergraduate.

Current topics and issues in contemporary business theory and management practice, focusing on in-depth study, critical analysis, research and application across functional areas.

**Prerequisites:** junior standing and admitted to the Business Scholars Program.

**Course Rules:** May not be retaken for credit.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 494 International Business Internship**

3 cr. Undergraduate.

A supervised international management-related and cross-cultural experience with a for-profit or non-profit organization outside the U.S. Project and organizational evaluation required.

**Prerequisites:** jr st & admis to Bus Adm major; BUS ADM 330(P) or BUS ADM 331(P); BUS ADM 301(P), BUS ADM 350(P), or BUS ADM 351(P); and BUS ADM 360(P) or BUS ADM 361(P); writ cons instr.

**Course Rules:** Considered full time for FA purposes. Credit/no credit only.

**Last Taught:** Summer 2019, Spring 2016, Summer 2015, Summer 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 495 Special Topics in Business:**

1-3 cr. Undergraduate.

Current topics and issues related to specific management areas of business. Specific topics and additional prerequisites announced in Schedule of Classes whenever course is offered.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to max of 9 credits.

**Last Taught:** Spring 2023, Fall 2022, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 496 International Business**

3 cr. Undergraduate.

The study of major factors specific to the conduct of business in international markets; focuses on the integration of marketing, finance, production, and other management functions into the world business, cultural, social, and political environments.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 330(P) or 331(P); Bus Adm 301(P) or 350(P) or 351(P); Bus Adm 360(P) or 361(P).

**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 498 Study Abroad: Business Topics:**

3 cr. Undergraduate.

Immersion (including instruction at an international university) in the economic, cultural, and business practices of selected countries.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic to max of 6 cr.

**Last Taught:** UWinterIM 2024, Summer 2023, Spring 2023, UWinterIM 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 499 Research in Industry**

1-3 cr. Undergraduate.

Solution of business problems as jointly developed by the student, the assigned faculty, and the cooperating company. Work will consist of problem solving through the use of university resources and library research.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May be retaken for cr only with prior cons Lubar School of Business.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 530 Privacy and Information Security for Business**

3 cr. Undergraduate.

Privacy concerns and safeguards, ethical issues surrounding data and information, information risk analysis, information system vulnerabilities, security threats and countermeasures.

**Prerequisites:** junior standing and advance to Bus Adm major; a grade of C or better in BUS ADM 335(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 531 Developing Applications for Interconnected Systems**

3 cr. Undergraduate.

Developing n-tier applications in today's interconnected business environment, including mobile and web-based technologies.

**Prerequisites:** junior standing and admis to Bus Adm major; BUS ADM 432(P).

**Last Taught:** Fall 2021, Fall 2017, Fall 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 532 Web Development for Open Business Systems**

3 cr. Undergraduate.

Business applications and web development based on platform-independent objective-oriented technologies and database connectivity in creating information systems for eBusiness activities.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 432(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 533 Introduction to Connected Systems for Business**

3 cr. Undergraduate.

Familiarize students with new infrastructure developments in connected systems, such as cloud computing and Internet of Things, as well as their managerial and business applications.

**Prerequisites:** junior standing and advance to Bus Adm major; a grade of C or better in BUS ADM 335(P).

**Last Taught:** Summer 2023, Summer 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 534 Information Technology Practicum**

3 cr. Undergraduate.

Student-teams will work on a real-world IT project and present the completed project to the company's stakeholders.

**Prerequisites:** junior standing and admis to Bus Adm major; BUS ADM 335(P).

**Course Rules:** Credit/no credit only.

**Last Taught:** Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 535 Global Information Technology Management**

3 cr. Undergraduate.

Management issues surrounding the effective deployment of information systems in different regions of the world.

**Prerequisites:** jr st & admis to Bus Adm Major; a grade of C or better in Bus Adm 230(P) or 231(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 536 Business Intelligence**

3 cr. Undergraduate.

Introduction to business intelligence, with a focus on data warehousing and data mining. This course uses SAP Business Information Warehouse software.

**Prerequisites:** jr st & admis to Bus Adm major; a grade of C or better in Bus Adm 335(P) or 336(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 537 Enterprise Systems Concepts and Issues**

3 cr. Undergraduate.

Advanced concepts in ERP and integrated nature of business processes, utilizing SAP software.

**Prerequisites:** junior standing, advanced to Business major, and a grade of C or better in BUS ADM 335(P) or BUS ADM 336(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 538 Business Process Integration**

3 cr. Undergraduate.

Business process integration and configuration of a hypothetical company using SAP software. Create organizational structure, master data and business rules for buying and selling products and tracking processes.

**Prerequisites:** junior standing, advanced to Business major, and BUS ADM 537(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 539 Web Application Server Development**

3 cr. Undergraduate.

Developing web-based applications in the SAP ERP ecosystem.

**Prerequisites:** junior standing and admis to Bus Adm major; grade of C or better in BUS ADM 335(P) or BUS ADM 336(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 540 ERP Certification**

3 cr. Undergraduate.

This course is designed to prepare students for taking the SAP Certified Application Associate Exam - the global baseline certification standard for SAP University Alliances Program.

**Prerequisites:** junior standing and admis to Bus Adm major; BUS ADM 536(P), BUS ADM 537(P), and BUS ADM 538(P).

**Last Taught:** Summer 2022, Summer 2021, Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 541 Cross-Cultural Management**

3 cr. Undergraduate.

Business cultures around the world; the impact of cultural differences in international management and negotiations.

**Prerequisites:** jr st; BUS ADM 330(P); admis to Bus Adm major or declared Global Studies program.

**Course Rules:** BUS ADM 541 & GLOBAL 541 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 542 Introduction to Technology Entrepreneurship**

3 cr. Undergraduate.

Introductory concepts related to technology entrepreneurship including opportunity identification, analysis and new venture planning. Prepares students to recognize and pursue viable technology-based entrepreneurial opportunities.

**Prerequisites:** jr st & admis to Tech Entrep Cert program or admis to business or engineering major.

**Course Rules:** Counts as repeat of Bus Adm 495 or MechEng 490 with same topic. Jointly offered with & counts as repeat of MechEng 542.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 543 Introduction to Technology Management and Innovation**

3 cr. Undergraduate.

Introductory concepts related to technology management and technological innovation. Prepares students to evaluate and plan technology commercialization projects.

**Prerequisites:** jr st & admis to Tech Entrep Cert program or admis to business or engineering major.

**Course Rules:** Counts as a repeat of Bus Adm 495 with same topic. Jointly offered with & counts as repeat of MechEng 543.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 544 New Product Development**

3 cr. Undergraduate/Graduate.

Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams.

**Prerequisites:** jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.

**Course Rules:** Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as a repeat of MechEng 544.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 544G New Product Development**

3 cr. Undergraduate/Graduate.

Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams.

**Prerequisites:** jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st. & admis to business or engineering program or admis to Tech Entrep Cert program.

**Course Rules:** Counts as repeat of Bus Adm 795 with same topic. Jointly offered with & counts as a repeat of MechEng 544.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 546 Global Innovation Management**

3 cr. Undergraduate/Graduate.

Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects.

**Prerequisites:** jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st & admis to business or engineering program or admis to Tech Entrep Cert program.

**Course Rules:** Counts as a repeat of Bus Adm 795 with same topic. Jointly offered with & counts as repeat of MechEng 546.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 546G Global Innovation Management**

3 cr. Undergraduate/Graduate.

Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects.

**Prerequisites:** jr st & admis to Tech Entrep Cert program or Bus Adm major or CEAS major; or grad st & admis to business or engineering program or admis to Tech Entrep Cert program.

**Course Rules:** Counts as a repeat of Bus Adm 795 with same topic.

Jointly offered with & counts as repeat of MechEng 546.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 547 Employment Law**

3 cr. Undergraduate.

Examines the basic concepts, institutions, and practices of international business in context of such managerial decisions as negotiating entry into foreign markets, managing strategic alliances, and designing the structure of a multinational enterprise.

**Prerequisites:** junior standing or greater, admission to Business major (advanced to major milestone), and BUS ADM 444(C).

**Course Rules:** Counts as repeat of BUS ADM 443 with similar title.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 548 Technology Venturing Project**

3 cr. Undergraduate.

A capstone course for students to demonstrate their knowledge and skills related to technology/product commercialization. Prepares students to lead their (or corporate) technology ventures.

**Prerequisites:** jr st & admis to Tech Entrep Cert program or admis to business or engineering major; Bus Adm/Mech Eng 542(P).

**Course Rules:** Jointly offered with & counts as repeat of MechEng 548.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 550 Investment Management Practice I**

3 cr. Undergraduate/Graduate.

Introduction to real-time and historic data sets and analytical software available in the David O. Nicholas Applied Finance Lab. Utilize Bloomberg and FactSet. Produce a stock report, including analysis of drivers, financial statements, and valuation.

**Prerequisites:** jr st, admis to Investment Mgmt Cert program, Bus Adm 450(C); or grad st, admis to Investment Mgmt Cert program, Bus Adm 705(C).

**Course Rules:** Considered a repeat of BUS ADM 495 and BUS ADM 795 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 550G Investment Management Practice I**

3 cr. Undergraduate/Graduate.

Introduction to real-time and historic data sets and analytical software available in the David O. Nicholas Applied Finance Lab. Utilize Bloomberg and FactSet. Produce a stock report, including analysis of drivers, financial statements, and valuation.

**Prerequisites:** jr st, admis to Investment Mgmt Cert program, Bus Adm 450(C); or grad st, admis to Investment Mgmt Cert program, Bus Adm 705(C).

**Course Rules:** Considered a repeat of BUS ADM 495 and BUS ADM 795 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 551 International Investments**

3 cr. Undergraduate.

Introduce institutional arrangements, instruments, and innovations in global investments. Emphasize foreign currency return-risk analysis, risk management, and performance evaluation on international investment portfolios.

**Prerequisites:** jr st; admis to Bus Adm major; & Bus Adm 451(P).

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 552 Investment Management Practice II**

3 cr. Undergraduate/Graduate.

Use of real-time and historic data sets available in the David O. Nicholas Applied Finance Lab such as Bloomberg, FactSet, and other analysis packages to analyze securities and prepare to manage portfolios.

**Prerequisites:** jr st, admis to Investment Mgmt Cert program & BUS ADM 550(P), BUS ADM 301(C) & BUS ADM 451(C); or grad st, admis to Investment Mgmt Cert program & BUS ADM 550(P), BUS ADM 301(C) or BUS ADM 721(C); BUS ADM 771(C).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 552G Investment Management Practice II**

3 cr. Undergraduate/Graduate.

Use of real-time and historic data sets available in the David O. Nicholas Applied Finance Lab such as Bloomberg, FactSet, and other analysis packages to analyze securities and prepare to manage portfolios.

**Prerequisites:** jr st, admis to Investment Mgmt Cert program & BUS ADM 550(P), BUS ADM 301(C) & BUS ADM 451(C); or grad st, admis to Investment Mgmt Cert program & BUS ADM 550(P), BUS ADM 301(C) or BUS ADM 721(C); BUS ADM 771(C).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 553 Investment Management Practice III**

3 cr. Undergraduate/Graduate.

Students manage investment portfolios utilizing the David O. Nicholas Applied Finance Lab. Topics include securities selection, portfolio positioning, performance and risk analysis, and financial market events.

**Prerequisites:** jr st, admis to Investment Mgmt Cert program & Bus Adm 552(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 552(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 553G Investment Management Practice III**

3 cr. Undergraduate/Graduate.

Students manage investment portfolios utilizing the David O. Nicholas Applied Finance Lab. Topics include securities selection, portfolio positioning, performance and risk analysis, and financial market events.

**Prerequisites:** jr st, admis to Investment Mgmt Cert program & Bus Adm 552(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 552(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 554 Investment Management Practice IV**

3 cr. Undergraduate/Graduate.

Students manage investment portfolios utilizing the David O. Nicholas Applied Finance Lab. Special topics covered to assist individual future professional development and gain maturity and confidence in real world investment management.

**Prerequisites:** jr st, admis to Investment Mgmt Cert program & Bus Adm 553(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 553(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 554G Investment Management Practice IV**

3 cr. Undergraduate/Graduate.

Students manage investment portfolios utilizing the David O. Nicholas Applied Finance Lab. Special topics covered to assist individual future professional development and gain maturity and confidence in real world investment management.

**Prerequisites:** jr st, admis to Investment Mgmt Cert program & Bus Adm 553(P); or grad st, admis to Investment Mgmt Cert program & Bus Adm 553(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 571 Quality and Six Sigma Tools**

3 cr. Undergraduate/Graduate.

Principles and techniques for managing and improving quality in manufacturing and service operations. Topics include lean principles, quality function deployment, FMEA, DOE, others.

**Prerequisites:** junior standing and admis to Bus Adm major; BUS ADM 370(P) or BUS ADM 371(P); or graduate standing.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 571G Quality and Six Sigma Tools**

3 cr. Undergraduate/Graduate.

Principles and techniques for managing and improving quality in manufacturing and service operations. Topics include lean principles, quality function deployment, FMEA, DOE, others.

**Prerequisites:** junior standing and admis to Bus Adm major; BUS ADM 370(P) or BUS ADM 371(P); or graduate standing.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 576 Enterprise Planning in the Supply Chain**

3 cr. Undergraduate.

Coverage of techniques for managing work processes within and across the supply chain. An integrated perspective is emphasized through hands-on experience with an enterprise software.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 475(P), 476(P) & 477(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 577 Supply Chain Applications, Policy, & Strategy**

3 cr. Undergraduate.

Designed to develop a linkage between SCM and corporate strategy, a case study approach to build an integrated view of the SCM. Business game provides practical experience.

**Prerequisites:** jr st & admis to Bus Adm major; Bus Adm 475(P), & 476(P) or 477(P).

**Course Rules:** Counts as repeat of Bus Adm 472 with topics Supply Chain Strategy and Supply Chain Apps & Policy.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 599 Reading and Research-Business Administration**

1-3 cr. Undergraduate.

**Prerequisites:** jr st; cons instr & Bus Adm.

**Course Rules:** May be retaken for cr only with prior approval of Lubar School of Business.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 600 Management Analysis**

3 cr. Undergraduate.

Study of decisions of how to compete, where to compete, and how to organize for firm success under conditions of uncertainty. The perspective taken is that of senior management integrating functional activities.

**Prerequisites:** senior standing and advanced to the Business major; BUS ADM 202(P), BUS ADM 330(P), BUS ADM 350(P) or BUS ADM 450(C), and BUS ADM 360(P); or BUS ADM 301(P), BUS ADM 331(P), BUS ADM 351(P) or BUS ADM 450(C), and BUS ADM 361(P).

**Course Rules:** Business administration capstone course.

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 701 Business Mathematics**

2 cr. Graduate.

Mathematical concepts essential to business. Exponents, polynomial functions, exponential and logarithmic functions, solution of linear systems, basic differential and integral calculus; emphasizes application to business problems.

**Prerequisites:** grad st.

**Course Rules:** Counts as repeat of BusMgmt 701.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 703 Financial Accounting**

3 cr. Graduate.

Covers financial accounting model underlying financial statements, accounting standard setting, role of accounting in capital formation, interpretation and analysis of financial statements.

**Prerequisites:** grad st.

**Course Rules:** Counts as repeat of BusMgmt 702.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 706 Income Tax Accounting II**

3 cr. Graduate.

Application of framework developed in Income Tax Accounting I (BUS ADM 405) to more thoroughly analyze the taxation of business entities.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as a repeat of BUS ADM 406G.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 713 Business Forecasting Methods**

3 cr. Graduate.

Overview and use of modern forecasting methods in support of managerial strategic planning, financial, and operational analysis of a dynamic global business environment.

**Prerequisites:** grad st; BusMgmt 709(P) or Bus Adm 754(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 714 Multivariate Techniques in Management Research**

3 cr. Graduate.

Multivariate analysis of variance, principal component analysis, factor analysis, conjoint analysis, bootstrap resampling, cluster analysis, canonical correlation, data mining (classification trees and neural networks); computer implementation.

**Prerequisites:** grad st; BusMgmt 709(P) or Bus Adm 754(P).

**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 720 Information Systems Auditing**

3 cr. Graduate.

Testing and reliance of automated application, program change and data access controls for use in the financial statement audit and system integrity.

**Prerequisites:** grad st; Bus Adm 409(P) or 728(P).

**Course Rules:** Counts as repeat of Bus Adm 795 with similar topic.

**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 721 Financial Accounting Theory**

3 cr. Graduate.

The principles of external reporting are integrated with approaches to problem solving. Emphasis is placed upon recent developments of the accounting profession.

**Prerequisites:** grad st; grade of B or better in Bus Adm 703(P) or 201(P) within three years of admission to the graduate program.

**Course Rules:** Not open to students who have cr in Bus Adm 301(ER).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 722 Advanced Financial Accounting Theory**

3 cr. Graduate.

Specialized topics in external financial reporting are studied. A critical appraisal is made of current and emerging accounting theory.

**Prerequisites:** grad st; grade of B or better in Bus Adm 721(P) or 301(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 723 Forensic Accounting**

3 cr. Graduate.

Coverage of forensic accounting and auditing topics such as examination of documents, information sources, writing reports, identifying high-risk signs, and fraud prevention and detection.

**Prerequisites:** grad st; Bus Adm 409(P) or 728(P).

**Course Rules:** Counts as repeat of Bus Adm 795 with similar topic.

**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 724 Business Combinations and Governmental Accounting**

3 cr. Graduate.

Accounting for mergers and acquisitions including consolidation procedures and foreign subsidiary investments. Also includes accounting principles for government and nonprofit entities.

**Prerequisites:** grad st; grade of B or better in Bus Adm 721(P) or 301(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 725 Strategic Cost Management I**

3 cr. Graduate.

Cost data accumulation and its utilization by management. Emphasis on job order and process costing, standard costing, cost-volume-profit analysis, budgets, capital expenditures.

**Prerequisites:** grad st; grade of B or better in Bus Adm 703(P) or 201(P).

**Course Rules:** Cannot be taken by students receiving cr for Bus Adm 404.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 726 Strategic Cost Management II**

3 cr. Graduate.

Uses quantitative and behavioral models to aid management planning and control. Emphasizes analysis techniques to aid in the solution of accounting oriented management problems.

**Prerequisites:** grad st; Bus Adm 725(P) or 404(P).

**Course Rules:** Not open to students who have cr in Bus Adm 426(ER).

**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 727 Information Systems Assurance and Advisory**

3 cr. Graduate.

Coverage of Information technology audit and advisory services, including SOC engagements; data management, including data collection, storage, and usage throughout the data life cycle; and organizational risks associated with IT.

**Prerequisites:** graduate standing, BUS ADM 408(P), and BUS ADM 409(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 728 Auditing Theory and Applications**

3 cr. Graduate.

A study of auditing standards, methodology, and professional and reporting responsibilities. Emphasis is on underlying concepts and theory.

**Prerequisites:** graduate standing; BUS ADM 408(P) and a grade of B or better in BUS ADM 721(P) or BUS ADM 301(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 731 Leadership in Diversity and Inclusion**

3 cr. Graduate.

Provides evidence-based and experiential insights needed to lead diversity, equity and inclusion efforts in a wide range of organizational settings. Develops leadership skills and strategies for empowering organizational, team and personal transformations through positive relationships.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**BUS ADM 732 Transforming Organizations**

3 cr. Graduate.

Combines individual and organizational-level analysis to provide insights into changing organizations. Topics include innovation, leadership, corporate cultures, and changing management from a broad view.

**Prerequisites:** grad st; BusMgmt 714(P).**Last Taught:** Spring 2012, Spring 2011, Spring 2010, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 733 Organizational Development**

3 cr. Graduate.

Problems of implementing change. Roles of external and internal consultants. Determining needs and measuring relevant variables.

**Prerequisites:** grad st; BusMgmt 706(P) or cons instr.**Last Taught:** Spring 2013, Spring 2012, Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 734 Managing Technological Innovation**

3 cr. Graduate.

Organizational and strategic issues involved in managing technologies and innovation processes. Emphasizes professional employees, creativity, project teams, leadership, interdepartmental relations, technological evolution, and R&D strategies.

**Prerequisites:** grad st.**Last Taught:** Summer 2012, Summer 2011, Summer 2010, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 735 Staffing Organizations**

3 cr. Graduate.

Broad overview of staffing practices and related research; topics include staffing strategy, legal compliance, job analysis, external recruitment and selection, staffing systems management, and retention.

**Prerequisites:** grad st**Course Rules:** Not open for cr to those w/ cr in Bus Adm 795 w/ topic: Staffing.**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 736 Seminar in Managing Change:**

3 cr. Graduate.

Topics are limited to the areas of managing change and their business applications. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.

**Prerequisites:** grad st**Course Rules:** May be repeated w/ chg in topic to 6 cr max.**Last Taught:** Spring 2011, Spring 2009, Spring 2007, Spring 1992.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 737 Managerial Decisions and Negotiations**

3 cr. Graduate.

Provides frameworks for making effective decisions and negotiating viable solutions. Improves performance in these key managerial roles by engaging in case study, exercises, and industry projects.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 738 Human Resource Management**

3 cr. Graduate.

Strategies for attracting, retaining and developing a diverse and international workforce. Topics include employment law, diversity, staffing, training, performance management, compensation and current issues.

**Prerequisites:** graduate standing; BUSMGMT 706(R).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 740 Information Technology Management Concepts and Languages**

3 cr. Graduate.

Introduction to data organization, object-oriented design, construction and validation of application programs, development methodologies and control structures, illustrate with object programming language.

**Prerequisites:** grad st.**Last Taught:** Summer 2018, Summer 2017, Summer 2016, Summer 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 741 Web Mining and Analytics**

3 cr. Graduate.

Measurement methods and analysis of web-based data for strategic decisions; methods and technologies in web mining, visualization, predictive analytics and text mining for knowledge discovery and business analysis.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 742 Big Data in Business**

3 cr. Graduate.

Fundamental concepts of distributed systems; data management across clusters of computers; distributed algorithms for analyzing large volumes of data for business value.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 743 Information Privacy, Security & Continuity**

3 cr. Graduate.

Privacy threats and safeguards; identifying information system vulnerabilities; planning and managing security measures. Ethical and legal perspectives concerning information and data.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 744 Information Technology Strategy and Management**

3 cr. Graduate.

Various frameworks to evaluate strategic value of IT, aligning IT and competitive business strategies, IT governance models, managing IT operations and outsourcing ethically.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 745 Artificial Intelligence for Business**

3 cr. Graduate.

Artificial Intelligence applications in business; artificial neural networks, convolutional neural networks, and recurrent neural networks; deep learning, transfer learning, and reinforcement learning; image recognition, time series prediction, and intelligent agents; AI strategy.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as a repeat of BUS ADM 746 with similar topic.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 746 Topics in Information Technology Management:**

3 cr. Graduate.

Topics are limited to the areas in management information systems and business application. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.

**Prerequisites:** grad st.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Spring 2023, Fall 2022, Summer 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 747 Service-Oriented Analysis and Design**

3 cr. Graduate.

Application development using service-oriented architecture, methodologies for specification, selection, composition, and integration of services, software quality assurance and metrics.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 748 Managing Information Technology Projects**

3 cr. Graduate.

Understand project management tools/techniques, project planning, software effort/cost estimation models, quality tools/metrics, six-sigma, CMM and ISO-9000, and managing outsourced/off-shored projects. Involves team-based project implementation.

**Prerequisites:** grad st; Bus Adm 747(P).

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 749 Data and Information Management**

3 cr. Graduate.

Managing structured, semi-structured and unstructured data, data integrity management, data representation, data integration, governance and administration, data quality and reporting information.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 751 Analysis of U.S. Business Environment**

3 cr. Graduate.

Analysis of inflation, business cycles, interest rate dynamics and term structure, federal reserve policy, tax policy, and economic growth.

**Prerequisites:** grad st; Bus Adm 701(P) & 702(P).

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 752 Corporate Economics**

3 cr. Graduate.

Applied economic analysis of market structure, price discrimination, oligopoly, cartels, and collusion. The course integrates the psychology of price and behavioral economic issues in pricing.

**Prerequisites:** grad st in mba-executive curric or cons instr.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 753 Advanced Business Law**

3 cr. Graduate.

Advanced legal concepts focusing on Uniform Commercial Code, bankruptcy and creditor protection, liability of bailees and common carriers, product liability, and real and personal property.

**Prerequisites:** grad st; Bus Adm 391(P).

**Last Taught:** Summer 2023, Summer 2022, UWinterIM 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 754 Statistical Analysis**

3 cr. Graduate.

Business applications of probability theory and statistical methods to managerial problems of prediction, inference and decision making under uncertainty.

**Prerequisites:** grad st; cons instr

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 755 Health Care Administration and Delivery Systems**

3 cr. Graduate.

Covers administrative structures and processes in health care institutions, including managing clinicians and inter-organizational relationships of U.S. and selected foreign health care providers.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 757 Managed Care and Integrated Health Networks**

3 cr. Graduate.

Examines concepts and management of capitated and vertically integrated health care organizations; utilization control, risk and quality assessment, benefit design, pricing, management of clinical professionals.

**Prerequisites:** grad st; Bus Adm 755(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 759 Seminar in Health Care Management:**

3 cr. Graduate.

Topics limited to the area of health care management. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.

**Prerequisites:** grad st

**Course Rules:** May be repeated w/ chg in topic to 6 cr max.

**Last Taught:** Spring 2013, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 761 Seminar in Marketing:**

3 cr. Graduate.

Current and emerging topics in Marketing. Specific topics and any additional prerequisites will be listed in the Schedule of Classes each semester. May be repeated w/chg in topic to 6 cr. max.

**Prerequisites:** grad st.

**Last Taught:** Fall 2012, Fall 2010, Fall 2008, Summer 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 762 Marketing Research**

3 cr. Graduate.

Understanding the market research process, obtaining and integrating relevant information into marketing decision-making processes. Listening to the voice of the customer, customer satisfaction measurement and technology utilization for database marketing.

**Prerequisites:** grad st; BusMgmt 709(C) or cons of instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 763 Marketing Analytics**

3 cr. Graduate.

Theoretical background provided to develop hands-on experience analyzing marketing data and using statistical models for marketing decisions.

**Prerequisites:** grad st; BusMgmt 709(C) or cons instr.

**Course Rules:** Not open for cr to those w/cr in Bus Adm 761 or 795 w/ similar topic.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 764 Buyer Behavior and Marketing Communications**

3 cr. Graduate.

A multidisciplinary approach to understanding buyer behavior processes in the market place and their implications for the development of marketing strategies, especially marketing communications.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 765 Strategic Product and Brand Management**

3 cr. Graduate.

Customer-focused product development and management; the creation and management of brand equity. Technology-marketing interface and customer involvement in product innovation and strategy.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 766 Marketing for Nonprofit Organizations**

3 cr. Graduate.

Explores ways in which non-business organizations such as hospitals, quasi-governmental agencies and educational institutions utilize marketing concepts and techniques in fulfilling their objectives.

**Prerequisites:** grad st.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 767 Ideas and Applications of Data Science in Different Fields**

3 cr. Graduate.

Introduction to the core areas and concepts of Data Science. It also includes a project intended to give hands-on experience in solving real-world problems using Data Science methods.

**Prerequisites:** graduate standing.

**Course Rules:** Not open for credit to students with credit in BUS ADM 795 with the same topic.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 768 Marketing Management**

3 cr. Graduate.

Study and application of the concepts, tools and analyses that underlie strategic marketing decisions.

**Prerequisites:** grad st.

**Last Taught:** Fall 2013, Fall 2011, Fall 2009, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 769 Database Marketing**

3 cr. Graduate.

Introduction to using and analyzing data on current and prospective customers to increase sales, customer acquisition, and customer retention.

**Prerequisites:** grad st; BusMgmt 709(C) or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 771 Investments**

3 cr. Graduate.

Financial asset pricing; selection of stocks, bonds, convertible securities, and warrants; risk and return modeling; applied statistical tools, including time series analysis, regression, optimization; single and multifactor models; investment simulation; statistical security valuation methods.

**Prerequisites:** graduate standing; BUSMGMT 705(P) and BUSMGMT 709(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 772 Portfolio Management**

3 cr. Graduate.

Study of dynamic process that periodically matches investors' goals, objectives, and strategies with market expectations through portfolio construction and revision. Covers asset allocation, return optimization, and management of various asset types.

**Prerequisites:** grad st; Bus Adm 771 (P).

**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 773 Options And Futures**

3 cr. Graduate.

Pricing theories and models for options and futures contracts and their application to investment hedging, arbitrage, and portfolio management. Covers equity, fixed income, commodity, and currency options and futures.

**Prerequisites:** grad st; Bus Adm 771 (P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 774 Global Financial Management**

3 cr. Graduate.

Analysis of financial problems corporations face when operating in an international environment. Emphasis on management of foreign exchange risk.

**Prerequisites:** grad st; Bus Mgmt 705(P).

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 775 Financial Strategy**

3 cr. Graduate.

Application of financial theory to corporate strategic planning. Working capital management, capital budgeting, capital structure, dividend policy, global finance, and mergers and acquisitions.

**Prerequisites:** grad st; BusMgmt 705(P) & BusMgmt 709(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 777 Advanced Corporate Finance**

3 cr. Graduate.

Critical examination and evaluation of modern corporate finance theory. Market efficiency, corporate investment decisions, capital structure, financing vehicles, risk management, corporate restructuring, and governance.

**Prerequisites:** grad st; Bus Adm 771(P), 775(P).

**Last Taught:** Spring 2009, Spring 2007, Spring 2005, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 778 Financial Institutions and Markets**

3 cr. Graduate.

Application of finance theory to financial management of firms including commercial banks, insurance companies, pension funds, mutual funds, and securities firms.

**Prerequisites:** grad st; BusMgmt 705(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 779 Fixed Income Securities**

3 cr. Graduate.

Examination of the pricing and features of modern fixed income securities including treasuries, municipals, mortgage-backed, callable and puttable bonds, convertibles, and interest rate swaps.

**Prerequisites:** grad st; Bus Adm 771.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 781 Enabling Supply Chains Using SAP**

3 cr. Graduate.

Strategic perspectives on the role of information technology as an enabler of the supply chain processes. Hands-on use of enterprise resource planning (ERP) software.

**Prerequisites:** grad st; Bus Adm 703(C) and BusMgmt 711(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 782 Supply Chain Technology and Simulation**

3 cr. Graduate.

Manufacturing innovations (e.g., lean manufacturing), manufacturing information systems, simulation-based technology development and prototyping, manufacturing systems design and simulation.

**Prerequisites:** grad st; BusMgmt 711(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 783 Modeling and Analytics in Supply Chains**

3 cr. Graduate.

Basic concepts and strategies in Supply Chain Management including strategic, tactical, and operational issues of SCM; the integration of various SCM entities; Industry 4.0; and risk assessment. Use of Excel for data analytics.

**Prerequisites:** graduate standing and BUSMGMT 711(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 785 Project Management and Innovative Operations**

3 cr. Graduate.

Management of innovative business projects, including multi-tier contracting, cpm/pert, virtual manufacturing, quality targeting and pursuit, and global operations.

**Prerequisites:** grad st; BusMgmt 711(P) & Bus Adm 782(C).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 786 Supply Chain Logistics Management**

3 cr. Graduate.

Strategic perspectives on logistics management concepts, issues, and models. Topics include logistics information systems, inventory management, transportation methods, packaging, warehousing, and global issues.

**Prerequisites:** grad st; BusMgmt 711(P)

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 787 Managing Connected Supply Chains**

3 cr. Graduate.

Issues managing a connected supply chain including integrating the supply chain into a single defined system sharing data, insights and benefits using cloud-based technologies, and AI.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 788 Tracking and Tracing**

1 cr. Graduate.

Open and secure symbology standards for shipping label barcodes. Digital methods to track shipments in a supply chain including barcodes, radio frequency identifiers (RFIDs), and the Internet of Things (IoT). Use of blockchain-based distributed ledgers.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 789 Service Operations Management**

3 cr. Graduate.

Design and deliver services, analyze and monitor service performance, develop service level agreements, and sustain service excellence. Key challenges and risks in service delivery will also be identified.

**Prerequisites:** graduate standing.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 794 Enterprise Integration:**

1 cr. Graduate.

Knowledge and skills important for effective integration and management of organizations across technical and business functions, and national and cultural boundaries. Topics vary and may include methods for quality improvement, management communications, business ethics, organizational leadership, etc.

**Prerequisites:** grad st in Bus Adm or prior approval of Bus Adm graduate prog services office.

**Last Taught:** Summer 2019, Summer 2018, Spring 2004, Spring 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 795 Seminar-in-Management:**

1-3 cr. Graduate.

Intensive and critical examination of a specific management problem area or a related research question. Specific topic and additional prerequisites may appear in the schedule of classes each semester.

**Prerequisites:** grad st; appropriate management science core courses or cons instr.

**Course Rules:** Repeatable with change in topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 797 Management Project**

2-4 cr. Graduate.

Investigation of an actual management problem or another substantive question in an allied discipline presented, for example, in the form of a business report or professional paper.

**Prerequisites:** grad st; cons instr.

**Course Rules:** May be retaken with change in topic with cons appropriate Lubar School of Business prog committee.

**Last Taught:** Fall 2017, Summer 2015, Summer 2013, Summer 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 798 Strategic Planning in Public and Nonprofit Sectors**

3 cr. Graduate.

Focuses on effective designs for strategic planning processes and assessment of external environmental and internal organizational characteristics, design, and evaluation of strategies.

**Prerequisites:** grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 799 Reading and Research**

1-12 cr. Graduate.

Individual work suited to the needs of graduate students.

**Prerequisites:** grad st; cons instr.

**Course Rules:** May be retaken with change in topic with cons appropriate Lubar School of Business prog committee.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, UWinteriM 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 800 Managing Global Organizations**

3 cr. Graduate.

Theories, information, and research pertaining to management of international business including selected aspects of foreign investment decision, strategy development, organization and control of multinational operations.

**Prerequisites:** grad st.

**Last Taught:** Fall 2012, Fall 2010, Fall 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 806 International Marketing**

3 cr. Graduate.

Examines international market development including determining objectives, evaluating market opportunities, entry strategies, and marketing mix in the international environment.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 807 Seminar in International Business:**

3 cr. Graduate.

Topics limited to the areas of international business. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.

**Prerequisites:** grad st.

**Course Rules:** May be repeated w/ chg in topic to 6 cr max.

**Last Taught:** Fall 2011, Fall 2009, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 809 International Business Strategy**

3 cr. Graduate.

Examines the strategic planning and action of international firms from the perspective of corporate headquarters.

**Prerequisites:** grad st; Bus Adm 800(P) & 806(P), or cons instr.

**Last Taught:** Spring 2013, Spring 2011, Spring 2009, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 810 Development of Web-Based Solutions**

3 cr. Graduate.

Web development for eBusiness, web development tools and methodologies, web services, content management, developing database-driven web applications, mobile applications, and Web 2.0 technologies.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 811 Process and Work-Flow Management**

3 cr. Graduate.

Business process modeling and design, process optimization, inter/intra organization process integration, process re-engineering and continuous process improvement, process execution and process implementation using ERP.

**Prerequisites:** graduate standing and BUSMGMT 732(P).

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 812 Machine Learning for Business**

3 cr. Graduate.

Machine learning for business insights; clustering and predictive analytics; linear regression, nearest neighbor, decision trees, support vector machines, random forests, ensemble learning, recommender systems; applications in business.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 813 Social Media Analytics for Business**

3 cr. Graduate.

Online social network analysis and social media mining techniques for business development; data processing, metrics creation, and exploratory analysis applied to social media mining.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 814 Enterprise Knowledge & Semantic Management**

3 cr. Graduate.

Managing knowledge in business enterprises including acquisition, repository creation, dissemination; organizational learning, developing enterprise ontology, collaboration management and e-collaboration; developing intelligent agents and recommendation systems.

**Prerequisites:** grad st.

**Last Taught:** Fall 2018, Fall 2016, Fall 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 816 Business Intelligence Technologies & Solutions**

3 cr. Graduate.

Develop business intelligence (BI) solutions using data warehousing, OLAP, and data mining technologies. Students will use SAP Analytics and other tools for implementing BI solutions.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 817 Connected Systems for Business**

3 cr. Graduate.

Overview of connected systems, including cloud computing and IoT. Design and develop technology infrastructure for business applications. Infrastructure management strategies, security, reliability, and performance considerations.

**Prerequisites:** graduate standing.

**Last Taught:** Summer 2023, Summer 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 818 Information Systems Practicum**

3 cr. Graduate.

Team project to build a working prototype system to address specific client need. This involves need assessment, market research, requirement specification, system design and building.

**Prerequisites:** grad st; Bus Adm 747(P); cons instr

**Last Taught:** Spring 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 819 Information Technology Management Internship**

3 cr. Graduate.

A defined work period addressing information systems in a corporate, government, or management consulting environment.

**Prerequisites:** grad st; writ cons instr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 820 Tax Research, Practice, and Procedure**

3 cr. Graduate.

Methodology of federal tax research, including computerized research. Organization of and practice before the IRS. Audits, deficiencies, assessment and collection. Preparer penalties. Ethical responsibilities.

**Prerequisites:** grad st; Bus Adm 405(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 821 Advanced Taxation**

3 cr. Graduate.

Advanced tax topics regarding business, individual and entity taxation.

**Prerequisites:** grad st; Bus Adm 406(P).

**Last Taught:** Fall 2023, Summer 2023, Summer 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 823 Corporate Income Taxation**

3 cr. Graduate.

Tax issues associated with formation, operations, liquidation and reorganization of regular corporations. Introduction to consolidated returns.

**Prerequisites:** grad st; Bus Adm 406(P)

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 826 Tax Planning for Individuals**

3 cr. Graduate.

Advanced tax issues and planning opportunities for individuals.

Introduction to the taxation of trusts and estates, as well as estate and gift tax issues.

**Prerequisites:** grad st; Bus Adm 406(P)

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 827 Taxes and Business Strategy**

3 cr. Graduate.

Comprehensive examination of tax planning issues associated with choice of entity, start-ups, purchase or sale of business, compensation, and financing options. Business succession planning.

**Prerequisites:** grad st; Bus Adm 406(P)

**Last Taught:** Spring 2014, Spring 2013, Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 828 Taxation of Partnerships, S Corporations, and LLCs**

3 cr. Graduate.

Tax issues associated with formation, operation, and dissolution of partnerships. Subchapter S corporations, and limited liability companies. Sale of ownership interests.

**Prerequisites:** grad st; Bus Adm 406(P)

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 829 Executive Compensation and Benefits**

3 cr. Graduate.

Tax issues associated with different methods of compensating executives and other employees.

**Prerequisites:** grad st; Bus Adm 406(P)

**Last Taught:** Summer 2010, Summer 2009, Summer 2008, Summer 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 831 Multistate Income Taxation**

3 cr. Graduate.

State taxation of income derived by corporations, flow through entities, and individuals from interstate business and investment activity.

**Prerequisites:** grad st.

**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 832 Property Taxation**

3 cr. Graduate.

Basic and advanced topics in state and local property taxes, with an emphasis on issues commonly encountered by multistate businesses.

**Prerequisites:** grad st.**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 834 International Taxation**

3 cr. Graduate.

U.S. taxation of income derived by corporations, flow-through entities, and individuals from both outbound and inbound business and investment activity.

**Prerequisites:** grad st; Bus Adm 406(P)**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 837 Sales and Use Taxation**

3 cr. Graduate.

Basic and advanced topics in state and local sales and use taxes, with an emphasis on the treatment of transactions commonly encountered by multistate businesses.

**Prerequisites:** grad st.**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 838 Managing State and Local Audits**

3 cr. Graduate.

Practical insights into managing the problems encountered in state and local income, sales and use, and property tax audits.

**Prerequisites:** grad st.**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 839 Topics in Taxation:**

3 cr. Graduate.

The topics are limited to the area of taxation.

**Prerequisites:** graduate standing and BUS ADM 406(P).**Course Rules:** May be repeated with change in topic to max of 6 cr.**Last Taught:** Fall 2004, Spring 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 840 Current Issues in Financial Reporting**

3 cr. Graduate.

Discusses valuation and financial reporting of complex accounting topics such as derivatives, fair value, hedging, foreign currency, International Financial Reporting Standards, among others.

**Prerequisites:** graduate standing, BUS ADM 722(P) or BUS ADM 402(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 841 Financial Statement Analysis**

3 cr. Graduate.

Implications of alternative financial accounting methods for analysis and decision-making. New financial transactions. Understanding the motivations for, and results of, financial engineering.

**Prerequisites:** grad st; Bus Adm 722 (C) or 402(P)**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 844 Advanced Audit and Assurance**

3 cr. Graduate.

An in-depth study of professional auditing standards. Emphasis on the integrated audit, practical application of technological innovations, and statistical sampling.

**Prerequisites:** graduate standing; BUS ADM 409(P) or BUS ADM 728(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 846 Advanced Analytics in Accounting**

3 cr. Graduate.

Study of accounting-based datasets and data analysis tools that allow management and auditors to gain insights and make better decisions.

**Prerequisites:** graduate standing; BUS ADM 408(P); BUS ADM 409(P) or BUS ADM 728(P).**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 849 Accounting Internship**

1-3 cr. Graduate.

A defined work period in an accounting firm, corporation, or governmental agency.

**Prerequisites:** grad st; writ cons instr.**Last Taught:** Summer 2023, Spring 2018, Fall 2017, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 851 Global Investments**

3 cr. Graduate.

Introduce market structure, institutions, regulations, instruments, and innovations in global investments. Focus on management of foreign currency risk and performance of global investment portfolios.

**Prerequisites:** grad st; Bus Adm 771(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 852 Venture Finance**

3 cr. Graduate.

Examine private equity industry, venture and buyout fund. Focus on the interaction of major parties, general partners, limited partners and portfolio firms.

**Prerequisites:** grad st; Bus Adm 705(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 853 Financial Modeling**

3 cr. Graduate.

Development and advanced application of computer-based financial models including pricing of exotic derivative securities.

**Prerequisites:** grad st; Bus Adm 771(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Summer 2022, Spring 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 894 Internet Marketing**

3 cr. Graduate.

Introduction to the principles of internet marketing, types of products that can be marketed online, communication strategies, selling strategies, and pricing strategies.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 895 Strategic Marketing Issues in eBusiness**

3 cr. Graduate.

Online branding, internet pricing and promotion strategy, managing channel conflict, online competitive strategy, synergies between traditional and online operations, and other topical issues.

**Prerequisites:** grad st.

**Last Taught:** Spring 2012, Spring 2010, Spring 2008, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 899 Management Research Project/Thesis**

1-6 cr. Graduate.

Original analysis of a management problem. Involves the application of the elements of scientific inquiry in the context of a contemporary problem.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 900 Doctoral Orientation to Teaching and Research**

1 cr. Graduate.

Introduces doctoral students to academic careers and research management. Focuses on research approaches, research management in private and public organizations, and teaching responsibilities in higher education.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 914 Advanced Multivariate Techniques in Management Research**

3 cr. Graduate.

Analysis of management problems using multivariate methods including logistic regression, structural equations, scale reliability measures, simultaneous inference, observational study corrections, and multidimensional scaling.

**Prerequisites:** grad st; Bus Adm 714(P) and 754(P).

**Last Taught:** Spring 2020, Spring 2019, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 916 Advanced Operations Research Models**

3 cr. Graduate.

Formulation and solution of operations research models with emphasis on models having a probabilistic structure.

**Prerequisites:** grad st; Bus Adm 754(P) or cons of instr.

**Last Taught:** Spring 2020, Spring 2015, Fall 1996, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 918 Doctoral Seminar in Behavioral Research Methods in Management**

3 cr. Graduate.

Selected advanced topics in behavioral research methods.

**Prerequisites:** grad st; Bus Adm 709 or 754.

**Last Taught:** Spring 2019, Spring 2017, Spring 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 980 Accounting Doctoral Seminar I:**

3 cr. Graduate.

Selected topics focusing on accounting research. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** grad st.

**Course Rules:** Retakeable w/ chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 981 Accounting Doctoral Seminar II:**

3 cr. Graduate.

Selected advanced topics focusing on theoretical foundations of accounting and empirical testing of such theories. Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** grad st.

**Course Rules:** Retakeable w/ chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 983 Supply Chain and Operations Management Doctoral Seminar I:**

3 cr. Graduate.

Selected topics focusing on supply chain and operations management. Includes analysis of key research, develop abilities related to research ideas, and execute empirical or analytical study to develop full research paper.

**Prerequisites:** grad st.

**Course Rules:** Retakeable with change in topic to max of 9 cr.

**Last Taught:** Fall 2019, Fall 2018, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 984 Finance Doctoral Seminar I:**

3 cr. Graduate.

Selected topics focusing on theoretical foundations of corporate finance and investments, and on testing such theories. Topics & prerequisites announced each time course is offered.

**Prerequisites:** grad st.

**Course Rules:** Retakable with change in topic to max of 9 cr.

**Last Taught:** Fall 2022, Summer 2022, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 990 Doctoral Seminar in Strategic Management:**

3 cr. Graduate.

Selected advanced topics in strategic management. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.

**Prerequisites:** grad st.

**Course Rules:** May be repeated w/ chg in topic to a 9 cr max.

**Last Taught:** Spring 2016, Fall 2015, Fall 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUS ADM 991 MIS Doctoral Seminar II:**

3 cr. Graduate.

Selected advanced topics in management information systems. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.

**Prerequisites:** grad st.

**Course Rules:** May be repeated w/ chg in topic to a 9 cr max.

**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**BUS ADM 992 Doctoral Seminar in Marketing:**

3 cr. Graduate.

Selected advanced topics in marketing. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st.**Course Rules:** Retakeable with change in topic to 12 cr max.**Last Taught:** Fall 2021, Spring 2021, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 993 Supply Chain & Operations Management Doctoral Seminar II**

3 cr. Graduate.

Selected advanced topics in supply chain and operations management. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st**Course Rules:** Retakeable with change in topic to 9 cr max.**Last Taught:** Spring 2019, Spring 2018, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 994 Finance Doctoral Seminar II:**

3 cr. Graduate.

Selected advanced topics in finance. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st.**Course Rules:** Retakeable with change in topic to max of 9 cr.**Last Taught:** Spring 2023, Spring 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 995 Doctoral Seminar in Decision Sciences:**

3 cr. Graduate.

Selected advanced topics in multi-disciplinary and methodological issues in management science. Specific topics and any additional prereqs will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st; Bus Adm 709 or 754.**Course Rules:** Retakeable with change in topic to max of 9 cr.**Last Taught:** Fall 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 996 Doctoral Seminar in Organizations:**

3 cr. Graduate.

Selected advanced topics in organizations. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.

**Prerequisites:** graduate standing.**Course Rules:** Retakeable with change in topic to 9 cr max.**Last Taught:** Fall 2022, Fall 2021, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 997 Doctoral Dissertation**

1-12 cr. Graduate.

**Prerequisites:** dissertator st; cons instr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 998 MIS Doctoral Seminar I:**

3 cr. Graduate.

Selected advanced topics in management information systems. Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.

**Prerequisites:** grad st.**Course Rules:** Retakeable w/ chg in topic to 9 cr max.**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUS ADM 999 Independent Work**

1-3 cr. Graduate.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Business Management (BUSMGMT)

**BUSMGMT 704 Accounting Analysis and Control**

3 cr. Graduate.

Prepares managers to critically analyze, interpret and use financial statements, cost reports, and other financial information provided by accountants and accounting systems.

**Prerequisites:** grad st & Bus Adm 703(P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 705 Corporate Finance**

3 cr. Graduate.

Analysis of financial statements; ratio analysis; Excel functions for bond price, yield to maturity, and yield to call; beta estimation and capital asset pricing model; capital budgeting; capital structure decisions; Excel models for financial forecasting.

**Prerequisites:** graduate standing, BUS ADM 703(P) and BUSMGMT 709(C).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 706 Managing in a Dynamic Environment**

3 cr. Graduate.

Provides frameworks and techniques for managing people and improving organizations. Topics include group dynamics, leadership, performance management, structure, innovation, power, change, and corporate cultures.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 707 Information Technology Management in International Businesses**

3 cr. Graduate.

Management of information technology including the role of enterprise systems; business intelligence, mining, & analytics; virtual teams and offshoring; security; and ethical/privacy issues including sustainability and green IT in the globally connected world.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUSMGMT 708 Marketing Strategy: Concepts and Practice**

3 cr. Graduate.

Builds key concepts in marketing strategy, develops knowledge of current issues and provides hands-on experience in developing and executing marketing strategies for today's managers.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 709 Predictive Analytics for Managers**

3 cr. Graduate.

Covers exploratory data analysis and foundations of statistical inference. With a focus on predictive analytics, coverage is given to classical and logistic regression modeling along with other techniques that may include trees and neural nets.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 711 Global Supply Chain Strategies & Competitive Operations**

3 cr. Graduate.

Addresses the contribution of the operations function in enhancing the competitiveness and effectiveness of service and manufacturing organizations. Topics include operations tactics and strategy, cross-functional and cross-firm integration, process analysis, and global supply chains.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 712 Strategic Management**

3 cr. Graduate.

Integrative course focused on strategic thinking and decision making at the general management level. Implementing business planning and strategy in a field-based interdisciplinary action project.

**Prerequisites:** admis to MBA Program and BusMgmt 704(P), 705(P), 706(P), 707(P), 708(P), 709(P), & 711(P); one prereq course may be completed concurrently with BusMgmt 712.**Course Rules:** Not open for credit for students who have completed BusMgmt 720.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 713 Entrepreneurship: Venture Creation and Management**

3 cr. Graduate.

Study of creation, growth or acquisition of a business through entrepreneurial efforts. Process of identifying and quantifying opportunities, then conceptualizing, planning and starting a new enterprise.

**Prerequisites:** grad st; Bus Adm 703(P) & BusMgmt 708(P).**Last Taught:** Summer 2023, Fall 2022, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 714 Managing People and the Role of General Managers**

3 cr. Graduate.

Provides framework for understanding organizational behavior and roles of general managers, as distinct from functional specialists. Develops managerial skills through cases, exercises, and industry projects.

**Prerequisites:** grad st.**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 715 Leadership, Team Building, and Effective Management**

3 cr. Graduate.

Provides a working knowledge of team building, managing change, and effective business communication methods, and an understanding of leadership tools.

**Prerequisites:** grad st.**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, UWinteriM 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 716 International Business Management**

3 cr. Graduate.

Theories and research pertaining to international business, including foreign investment, marketing, personnel, strategy development, and control of multinational operations.

**Prerequisites:** grad st.**Last Taught:** Fall 2021, Fall 2020, Spring 2019, Summer 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 718 Concepts and Practice of Nonprofit Management**

3 cr. Graduate.

Characteristics and formation of nonprofit organizations; building effective boards of directors; board roles and responsibilities; conflicts of interest; evaluating nonprofit performance; grant writing, foundations, and fund-raising.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 720 Strategic Management in Health Care Organizations**

3 cr. Graduate.

Application of strategic management tools and techniques to health care organizations. Analyzing external, competitive, and internal environment; developing objectives; understanding current strategy; formulating and implementing future directions.

**Prerequisites:** grad st; Bus Adm 757(P); BusMgmt 708(P) or Bus Adm 766(P); BusMgmt 704(P), 705(P), 706(P), 707(P), & 711(P).**Course Rules:** Not open for credit for students who have completed BusMgmt 712.**Last Taught:** Fall 2023, Fall 2022, Spring 2020, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 721 Fundraising and Development for Nonprofit Organizations**

3 cr. Graduate.

Philosophical thoughts on development; basics of fundraising; strategic planning and implementation.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 722 Global Information Technology Management**

3 cr. Graduate.

Management issues surrounding the effective deployment of it and is in different regions of the world.

**Prerequisites:** grad st.**Last Taught:** Summer 2013, Summer 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUSMGMT 723 Managing and Negotiating Across Borders**

3 cr. Graduate.

Examines the basic concepts, institutions, and practices of international business in context of such managerial decisions as negotiating entry into foreign markets, managing strategic alliances, and designing the structure of a multinational enterprise.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 724 Accounting for Nonprofit Organizations**

3 cr. Graduate.

Financial and managerial accounting topics for the nonprofit sector; relationship of these topics to finance, the legal environment of nonprofits, and mission of the organizations.

**Prerequisites:** Grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 726 Study Abroad: Business Topics:**

1-3 cr. Graduate.

Immersion (including instruction at an international university) in the economic, cultural, and business practices of selected countries.

**Prerequisites:** graduate standing and acceptance for Study Abroad Program.**Course Rules:** Repeatable to 3 cr max.**Last Taught:** UWinterIM 2024, UWinterIM 2023, Spring 2022, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 727 Health Care Accounting, Law and Ethics**

3 cr. Graduate.

Critical examination of healthcare specific issues and differences from other industries: financial and accounting practice; legal requirements and constraints; ethical issues facing healthcare managers.

**Prerequisites:** grad st; BusMgmt 704(P) and 705(P).**Last Taught:** Summer 2023, Summer 2022, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 728 Training and Development in Organizations**

3 cr. Graduate.

Development and evaluation of training and career development programs in organizations. Skills-based approach to understanding needs assessments, learning principles, training development and evaluation.

**Prerequisites:** grad st.**Course Rules:** Counts as repeat of Bus Adm 443 with similar subtitle.**Last Taught:** Fall 2018, Fall 2016, Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 729 MBA Internship**

3 cr. Graduate.

A defined work experience with a for-profit, non-profit, international, or government organization, applying previous coursework to a workplace setting. Project paper required.

**Prerequisites:** grad st; completion of any 12 cr (4 courses) from MBA Core (BusMgmt 704-711); Masters GPA of 3.50 or better; writ cons of instr.**Last Taught:** Summer 2023, Spring 2022, Summer 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 730 Strategic Management and Leadership for Nonprofit Organizations**

3 cr. Graduate.

Concepts and methods of strategic thinking and applications of strategy in nonprofit organizational settings. Nonprofit governance and executive leadership roles in strategy formation and implementation.

**Prerequisites:** grad st; BusMgmt 718(P) or Pol Sci 789(P) or Pol Sci/Sociol/Urb Std 704(P); BusMgmt 721(P), 724(P), & 725(P); Bus Adm 766(P) or Pol Sci 705(P) or Pol Sci 791(P); Pol Sci 792(P) & 793(P)**Last Taught:** Fall 2022, Fall 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 731 Research Tools for Practitioners in Human Resources and Labor Relations**

3 cr. Graduate.

Planning and carrying out simple surveys; evaluating policies, programs, and procedures in organizations; interpreting, evaluating and using research conducted by others.

**Prerequisites:** grad st; Econ 210(P) or Bus Adm 210(P) or cons instr.**Course Rules:** Ind Rel 731 and BusMgmt 731 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 732 Enterprise Resource Planning**

3 cr. Graduate.

Enterprise Resource Planning concepts, fundamental business processes, interaction of various functional areas, development tools for the implementation of web-based ERP applications.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 733 Enterprise Simulation Game**

3 cr. Graduate.

Use ERP simulation game, develop understanding of ERP concepts, experience benefits of ERP, develop technical skills using ERP software.

**Prerequisites:** grad st**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 734 Enterprise Resource Planning Certification**

3 cr. Graduate.

Understand interdependencies and integration of key business processes and power of technology-enabled ERP system to increase productivity and improve business performance.

**Prerequisites:** graduate standing and BUS ADM 811(P).**Last Taught:** Summer 2022, Summer 2020, Summer 2018, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 735 Advanced Spreadsheet Tools**

1 cr. Graduate.

Covers advanced spreadsheet decision making tools. Business problems from across the enterprise will be solved using EXCEL functions, pivot tables, scenario evaluation and others.

**Prerequisites:** grad st; Bus Adm 701(C).**Last Taught:** Spring 2017, Fall 2016, Summer 2016, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**BUSMGMT 736 Understanding and Using Corporate Financial Reports**

2 cr. Graduate.

Introduces corporate financial reporting practices, accounting terminology, and disclosure concepts. Develops skills in reading and analyzing annual reports. Emphasizes the impact of alternative accounting practices.

**Prerequisites:** grad st; Bus Adm 701(C).**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 737 Business Strategy and Economics**

2 cr. Graduate.

Economics analysis of applied problems in business. Includes behavioral economics, game theory, pricing in oligopolies, monopolies, price discrimination, and the psychology of pricing.

**Prerequisites:** grad st; Bus Adm 701(C).**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 738 Critical and Analytical Thinking in Business**

2 cr. Graduate.

Provides training, practice, and feedback in the construction, presentation, and evaluation of clear, well-reasoned arguments. Interactive sessions and structured assignments highlight business applications.

**Prerequisites:** grad st; Bus Adm 701(C).**Last Taught:** Fall 2018, Fall 2017, Spring 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 741 Management of Technology Ventures**

3 cr. Graduate.

Development, launch, and management of technology ventures including venture growth management. Prepares students to lead and manage technology ventures.

**Prerequisites:** grad st & admis to business or engineering program or admis to Tech Entrep Cert program.**Last Taught:** Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 742 Technology Innovation and Corporate Entrepreneurship**

3 cr. Graduate.

Advanced concepts related to technology management, technological innovation, technology strategy, and corporate entrepreneurship. Prepares students to lead technology commercialization projects.

**Prerequisites:** grad st & admis to business or engineering program or admis to Tech Enrep Cert program.**Last Taught:** Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 743 Technology Entrepreneurship Project**

3 cr. Graduate.

Integration of key product/service innovation, commercialization, and entrepreneurship processes in the establishment of new (or corporate) technology ventures; trains students to lead new ventures.

**Prerequisites:** grad st & admis to business or engineering program or admis to Tech Entrep Cert program; BusMgmt 741(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**BUSMGMT 744 R Programming for Business Analytics**

3 cr. Graduate.

Focus on basic data manipulation and statistical modeling in R. The objective is to develop R programming skills to investigate different types of business data to inform business decisions.

**Prerequisites:** grad st; BusMgmt 709(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Celtic Studies (CELTIC)

**CELTIC 103 First Semester Irish Gaelic**

3 cr. Undergraduate.

Beginning Irish Gaelic for students with no previous knowledge of the language.

**Prerequisites:** none.**Course Rules:** Counts as repeat of LINGUIS 131 with 'First Semester Gaelic' subtitle.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CELTIC 104 Second Semester Irish Gaelic**

3 cr. Undergraduate.

Continuation of CELTIC 103.

**Prerequisites:** CELTIC 103(P).**Course Rules:** Counts as repeat of LINGUIS 132 with 'Second Semester Gaelic' subtitle.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CELTIC 133 Celtic Crossings: Overview of the History and Cultures of the Celtic World**

3 cr. Undergraduate.

Interdisciplinary exploration of the archaeology, history, literature, language, myth, and arts of the Celtic peoples (Cornish, Irish, Scots, Welsh, Manx, Breton, & Galician).

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CELTIC 192 First-Year Seminar**

3 cr. Undergraduate.

Specific topics announced in Schedule of Classes each time course is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** HU**Last Taught:** Fall 2011, Fall 2010, Fall 2009, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CELTIC 193 First-Year Seminar**

3 cr. Undergraduate.

Specific topics announced in Schedule of Classes each time course is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 199 Independent Study**

1-3 cr. Undergraduate.

Independent work supervised by Celtic Studies faculty or staff member. Written course proposal required prior to reg. For additional information, consult program coordinator.

**Prerequisites:** 2.50 GPA on at least 12 graded credits; consent of instructor and program coordinator.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 2017, Spring 2016, Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 203 Third Semester Irish Gaelic**

3 cr. Undergraduate.

Continuation of CELTIC 104.

**Prerequisites:** CELTIC 104(P).

**Course Rules:** Counts as repeat of LINGUIS 231 with 'Irish (Gaelic)' subtitle.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 204 Fourth Semester Irish Gaelic**

3 cr. Undergraduate.

Continuation of CELTIC 203.

**Prerequisites:** CELTIC 203(P).

**Course Rules:** Counts as repeat of LINGUIS 232 with 'Irish (Gaelic)' subtitle.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 250 Selected Topics in Celtic Studies:**

3 cr. Undergraduate.

Focus on an individual Celtic group or one particular aspect of Celtic culture.

**Prerequisites:** none.

**Course Rules:** Not open to students with cr in Ethnic 250 with similar topic. Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2014, Spring 2013, Spring 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 285 Modern Irish Language and Literature in Translation**

3 cr. Undergraduate.

Major works of literature written in Irish Gaelic, eighth century to present day, in bilingual (Irish/English) texts.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** Celtic 285 & English 285 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 289 Internship in Celtic Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Celtic studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Celtic stds; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Last Taught:** Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Summer 2023, Summer 2022, Spring 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 350 Advanced Topics in Celtic Studies:**

3 cr. Undergraduate.

Focus on an individual Celtic group or one particular aspect of Celtic culture.

**Prerequisites:** jr st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2016, Spring 2015, Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 489 Internship in Celtic Studies, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles of Celtic studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Celtic stds; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Summer 2023, Summer 2022, Spring 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topics.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CELTIC 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Independent work supervised by Celtic Stds faculty or staff member. Write course proposal req'd prior to reg. For add'l info, consult prog coord.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor program coordinator, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2023, Fall 2020, Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS American Indian Studies (CGS AIS)

**CGS AIS 101 Introduction to American Indian Studies**

3 cr.

Introduction to the history, culture, and sovereignty of American Indians through the disciplines of Anthropology, Business, Geography, History, Political Science, and Sociology; American Indian perspectives of historical events and policies. Explores how historical events affect sovereignty, political relationships, and current American Indian issues. This course focuses on Wisconsin Indians, meeting the requirements of Wisconsin DPI Act 31.

**Prerequisites:** Prerequisite: none.

**General Education Requirements:** CD, IS, SS

**Last Taught:** Summer 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS AIS 260 American Indian Art**

3 cr.

A survey of North American Indian art and its relationship to Native American cultures, past and present. Looks at pre-Columbian art, changes in art with European contact, and the most recent trends in Native American art. Philosophies of aesthetics and the relationship of art to material culture and worldview will be analyzed from the cross-cultural perspective of the anthropology of art.

**Prerequisites:** none.

**General Education Requirements:** A, CD

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS AIS 277 Indians in American History**

3 cr.

Surveys U.S. history with emphasis on contact in the age of exploration, interactions over time between Europeans and Native Americans, and adaptations and conflicts that emerged from social, political, and economic perspectives from the colonial period to the present. Focuses on understanding the perspectives of Native Americans.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS AIS 314 American Indian Societies and Cultures**

3 cr.

A survey of diverse and complex American Indian cultures and Peoples in North America, exploring the impact of the past and the influences of Euro-American culture on Native Nations and Peoples.

**Prerequisites:** none.

**Course Rules:** CGS AIS 314 and CGS ANT 314 are jointly offered and count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Anthropology (CGS ANT)

**CGS ANT 100 Introduction to Anthropology**

3 cr.

A survey of the subfields of anthropology, especially archaeology and physical and cultural anthropology. The course explores human biological evolution and variation, cultural evolution, language, and culture change.

**Prerequisites:** none

**General Education Requirements:** SS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ANT 100X Introduction to Anthropology**

3 cr.

A survey of the subfields of anthropology, especially archaeology and physical and cultural anthropology. The course explores human biological evolution and variation, cultural evolution, language, and culture change.

**Prerequisites:** none

**General Education Requirements:** SS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ANT 102 Discovering our Past: An Introduction to Archaeology and the Prehistoric World**

3 cr.

Introduction to the prehistoric world from origins of human culture to the beginnings of written history as revealed by archaeological research at great sites and ruins around the globe. Archaeological analysis of famous prehistoric sites as case studies to illustrate concepts and techniques used by archaeologists in their efforts to understand the rise, florescence, and demise of vanished societies.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ANT 104 Introduction to Cultural Anthropology**

3 cr.

Survey of cultural anthropology with emphasis on ethnographic description, methodology and contemporary theory. Cross-cultural comparisons of societies and institutions. Course includes both humanistic and social scientific approaches to human sociocultural diversity.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ANT 105 Introduction to Biological Anthropology**

3 cr.

Evolutionary theory, the place of humans in the primate order, fossil evidence for human evolution and interpretation of that evidence, biological and genetic basis of human variation, and possible other topics of human biology.

**Prerequisites:** none.**Course Rules:** Students may not receive credit in CGS ANT 105/ CGS ANT 106 and CGS ANT 107.**General Education Requirements:** NS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ANT 106 Introduction to Biological Anthropology Lab**

1 cr.

Students will learn tools and methods used by anthropologists, explore and examine various data sources, and apply this information to learn more about human evolution and variation.

**Prerequisites:** concurrent enrollment in CGS ANT 105.**Course Rules:** Students may not receive credit in CGS ANT 105/ CGS ANT 106 and CGS ANT 107.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ANT 107 Introduction to Biological Anthropology with Lab**

4 cr.

A fully embedded biological anthropology class with lab that examines evolutionary theory, the place of humans in the primate order, fossil evidence for human evolution, and the biological and genetic basis of human variation.

**Prerequisites:** none.**Course Rules:** Students may not receive credit in CGS ANT 105/ CGS ANT 106 and CGS ANT 107.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ANT 150 Food, Culture, and Identity**

3 cr.

The role of food in human history, and the biocultural construction of what is classified as food; examines the meaning of food across cultures with particular attention to how cultural and ethnic identities are associated with particular types of food. Rituals, religions and family celebrations, and secular holidays all include the deliberate preparation, serving and sharing of food or abstinence from food.

**Prerequisites:** none**General Education Requirements:** CD, SS**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ANT 200 Becoming and Being Human**

4 cr.

A biocultural perspective to examine and understand who we are as humans and how we became what we are.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ANT 291 Selected Topics in Anthropology**

1-3 cr.

A specific topic in an instructor's area of special competence. When offered, the particular topic is indicated in the campus timetable.

**Prerequisites:** Previous CGS ANT course or cons. instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ANT 294 Practice in Applied Anthropology**

1-3 cr.

Supervised practical experience in an organization or activity appropriate to a student's career and educational interests. Internships are supervised by faculty members and require periodic student/faculty meetings.

**Prerequisites:** previous anthropology course and cons. instr.**Course Rules:** Repeatable for a maximum of six credits.**General Education Requirements:** AP**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ANT 299 Independent Reading and Research**

1-3 cr.

Independent reading and research in Anthropology.

**Prerequisites:** Cons. instr.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ANT 314 American Indian Societies and Cultures**

3 cr.

A survey of diverse and complex American Indian cultures and Peoples in North America, exploring the impact of the past and the influences of Euro-American culture on Native Nations and Peoples.

**Prerequisites:** none.**Course Rules:** CGS AIS 314 and CGS ANT 314 are jointly offered and count as repeats of one another.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ANT 343 Religion, Magic and Witchcraft**

3 cr.

Descriptions and interpretations of magico-religious beliefs and practices in a variety of cultures from an anthropological perspective; examines theories about religion and some of the conceptual issues regarding the interpretation of religion and related phenomena which have interested anthropologists over time.

**Prerequisites:** none.**Course Rules:** CGS ANT 343 and CGS REL 343 are the same course. Not recommended for first-semester students.**General Education Requirements:** SS**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ANT 350 Introduction to Medical Anthropology: Health and Healing**

3 cr.

Explores diverse healing and medical systems. Emphasis on how cultural and evolutionary approaches to medicine are used to examine illness, disease, and healing in diverse ethnic groups; examines how principles of medical anthropology are being used in training nurses and doctor in the US.

**Prerequisites:** none**General Education Requirements:** CD, SS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Art (CGS ART)

### CGS ART 101 Introduction to Drawing

3 cr.

Principles of creative and structural drawing; a foundation course that explores a variety of ideas, techniques, and materials with a perceptual focus; drawing as a fine art and a basis for structure. An investigation of methods and materials.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ART 102 Intermediate Drawing

3 cr.

Principles of creative and structural drawing; a second semester foundation course that explores a variety of ideas, techniques, and materials with a perceptual focus; drawing as a fine art and a basis for structure. Studio work in drawing with a variety of materials, techniques, and ideas. An investigation of methods, materials, and mixed media possibilities. An introduction to figure drawing. The class is conceptually based with an involvement and emphasis on structure, ideas and process.

**Prerequisites:** CGS ART 101.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ART 111 Two-Dimensional Design

3 cr.

Investigation of the basic elements and principles of two-dimensional design; arrangement of line, value, texture, and color theory, possible computer exercises.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ART 112 Three-Dimensional Design

3 cr.

Investigation of the basic elements and principles of three-dimensional design in the use of volume and spatial arrangement.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ART 118 Digital Imaging and Design

3 cr.

Basic skills and vocabulary of digital technology; exploration of popular graphics software and hardware. Integration of digital imagery with more traditional media. Development of a portfolio for transfer.

**Prerequisites:** none.

**Course Rules:** Previously CGS ART 216.

**General Education Requirements:** AP

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ART 118X Digital Imaging and Design

3 cr.

Basic skills and vocabulary of digital technology; exploration of popular graphics software and hardware. Integration of digital imagery with more traditional media. Development of a portfolio for transfer.

**Prerequisites:** none.

**Course Rules:** Previously CGS ART 216.

**General Education Requirements:** AP

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ART 121 Introduction to Painting

3 cr.

Basic experience in various media - may include oil, watercolor, acrylic media, a survey of studio methods.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ART 125 Oil Painting

3 cr.

Exploration of oil media; aspects of traditional and contemporary procedures. Lecture-lab.

**Prerequisites:** CGS ART 121 or cons. instr.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ART 131 Introduction to Sculpture

3 cr.

Basic experience in three-dimensional media. A survey of materials and procedures used in sculptural processes.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ART 141 Introduction to Printmaking

3 cr.

Exploration of the graphic media. May include relief, intaglio, serigraphy, lithography.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ART 154 Introduction to Ceramics

3 cr.

Exploration of materials and processes; hand and wheel forming; glazing, firing, and kiln management.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CGS ART 161 Introduction to Photography**

3 cr.

Introduction to photography, which includes building technical abilities, vocabulary and an understanding of the principles and history of traditional/contemporary B&W photography as an expressive art form. May include working in the darkroom and/or working with digital imaging programs and alternative photo processes.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 161X Introduction to Photography**

3 cr.

Introduction to photography, which includes building technical abilities, vocabulary and an understanding of the principles and history of traditional/contemporary B&W photography as an expressive art form. May include working in the darkroom and/or working with digital imaging programs and alternative photo processes.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 175 Worlds of Art--Images/Objects/Ideas**

3 cr.

An introduction to the visual arts, intended for the non-art major, which emphasizes cross-cultural perspectives - specifically the impact race and ethnicity have on artistic production, art criticism, art philosophies and aesthetics among the four major ethnic groups in the United States - African American, Native American, Asian American, and Hispanic/Latino American. Field trips may be required.

**Prerequisites:** none.**General Education Requirements:** A, CD**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 181 Survey: Ancient and Medieval Art**

3 cr.

Art and architecture from the Old Stone Age to the Gothic era. Field trip.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 183 Survey: Renaissance - Modern Art**

3 cr.

Architecture, sculpture, painting, and decorative arts from the Late Middle Ages to the modern era. Field trip.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Spring 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 187 Survey: Modern Art**

3 cr.

Painting, sculpture, printmaking, and drawing of the modern era. Field trip.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 188 Survey: Modern Architecture and Design**

3 cr.

Architecture, landscape architecture, city planning, interior and industrial design of the modern era. Field trip.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 191 Art of American Advertising: Colonial Period to the Present**

3 cr.

Introduction to the history of the art of persuasion found in popular print advertising in America over the last two-hundred years as it relates to the needs, fears, and desires of the American consumer society.

**Prerequisites:** none.**Course Rules:** Count as a repeat of CGS ART 291 with similar topic.**General Education Requirements:** A**Last Taught:** Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 201 Introduction to Life Drawing**

3 cr.

Anatomical and compositional considerations related to drawing from the human figure.

**Prerequisites:** none.**General Education Requirements:** AP**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 202 Intermediate Life Drawing**

3 cr.

Advanced study of anatomical and compositional considerations related to drawing from the human figure. Lecture-lab.

**Prerequisites:** CGS ART 201(P).**General Education Requirements:** AP**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 212 Three-Dimensional Design II**

3 cr.

Three-dimensional visual experiences and the application of design principles to space, form and materials. Students receive instruction in the proper and safe use of simple hand tools and power equipment.

**Prerequisites:** CGS ART 112(P).**General Education Requirements:** AP**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 225 Intermediate Oil Painting**

3 cr.

Continuation of CGS Art 125 with emphasis upon individual development.

**Prerequisites:** CGS ART 125.**General Education Requirements:** AP**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ART 231 Intermediate Sculpture**

3 cr.

Second year level course with emphasis upon technical problems related to individual projects.

**Prerequisites:** CGS ART 131.**General Education Requirements:** AP**Last Taught:** Fall 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ART 232 Sculpture II**

3 cr.

Advanced work in sculptural expression; traditional and contemporary methods of production. Lecture-lab.

**Prerequisites:** CGS ART 231(P).

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ART 241 Lithography**

3 cr.

Piano graphic printing; use of stone and metal plates, with exploration of various offset media.

**Prerequisites:** ART 141(R).

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ART 254 Intermediate Ceramics**

3 cr.

Continuation of ART 154. Further development of craftsmanship with emphasis upon individual projects. Lecture-lab.

**Prerequisites:** CGS ART 154(R).

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ART 255 Ceramics II**

3 cr.

Advanced work in ceramic processes. May include construction and use of molds, slip casting; production technology. Lecture-lab.

**Prerequisites:** ART 254(P)

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ART 260 American Indian Art**

3 cr.

A survey of North American Indian art and its relationship to Native American cultures, past and present. Looks at pre-Columbian art, changes in art with European contact, and the most recent trends in Native American art. Philosophies of aesthetics and the relationship of art to material culture and worldview will be analyzed from the cross-cultural perspective of the anthropology of art.

**Prerequisites:** none.

**General Education Requirements:** A, CD

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ART 261 Intermediate Photography**

3 cr.

A continuation of CGS Art 161 with emphasis on working with color and expanding photographic skills. Study geared toward specific student interests and the development of a portfolio for transfer.

**Prerequisites:** CGS ART 161.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ART 291 Special Topics**

1-4 cr.

**Prerequisites:** Consent of instructor; also Department Chair approval.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ART 299 Independent Study**

1-3 cr.

Independent study.

**Prerequisites:** consent of instructor and department chair.

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

# CGS Astronomy (CGS AST)

**CGS AST 100 Survey of Astronomy**

3-4 cr.

Descriptive survey of astronomy for students with minimal background in mathematics and science. Topics include the solar system, stars, nebulae, galaxies, cosmology, and astronomical methods.

**Prerequisites:** High school algebra and geometry or cons. instr. NS; if 4 cr, also LS.

**Course Rules:** May be offered for 3 credits without laboratory work, or for 4 credits with laboratory work consisting of telescopic observation, laboratory demonstration, and astronomy exercises. Students may not earn credit for both AST 100 and 105.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS AST 101 Observational Astronomy**

1 cr.

Observation of solar system, galactic and extra-galactic objects, and introduction to basic observational techniques in astronomy. Includes telescopic and unaided eye observation, positional astronomy, astrophotography, optic spectroscopy, interpretation of astronomical data, and astronomy laboratory exercises.

**Prerequisites:** One year of high school algebra and one year of high school geometry or one semester of college algebra. If the prerequisite math course was taken more than five years ago, cons. instr. required.

**Course Rules:** Students who have CGS AST 200 or CGS AST 100 for 4 credits, or equivalent courses, are not eligible for this course.

**General Education Requirements:** NS+

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS AST 105 The Solar System**

3 cr.

Contemporary understanding of the Solar System; the sky and celestial motions; ancient astronomy; the Copernican revolution; light, gravity, orbits, and astronomical instruments; formation of the solar system; sun, planets and moons; asteroids, comets, and meteors.

**Prerequisites:** High school algebra and geometry or consent of instructor.

**Course Rules:** Students may not receive credit for both CGS AST 100 and 105.

**General Education Requirements:** NS

**Last Taught:** UWinterIM 2024, Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS AST 106 Stars, Galaxies and the Universe**

3 cr.

Contemporary understanding of stellar systems.

**Prerequisites:** High school algebra and geometry or consent of instructor.

**Course Rules:** Students may not receive credit for both CGS AST 100 and CGS AST 106.

**General Education Requirements:** NS

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS AST 291 Topics in Astronomy**

1-5 cr.

An extended coverage of one or more topics in astronomy such as extra-terrestrial life, archaeoastronomy, cosmology, astrophysics, radio astronomy, stellar structure, dynamical astronomy, galactic structure and observational astronomy.

**Prerequisites:** Math competency at the level of CGS MAT 105.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Biology (CGS BIO)

**CGS BIO 101 Concepts of Biology**

5 cr.

An introduction to the fundamental principles of living organisms. Includes cell and tissue structure, growth, basic physiological processes, reproduction and inheritance, classification, evolution and ecology. Lecture, lab, and may also include demonstrations, discussion and field trips.

**Prerequisites:** none.

**Course Rules:** Previously BIO 109.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 103 Topics in Modern Biology:**

3 cr.

The study of plants from an historical and geographical perspective, and how plants are used in the modern world as a source of food, drugs, and other materials.

**Prerequisites:** none.

**Course Rules:** May be retaken with change in topic to 9 cr max.

Previously CGS BIO 164. Lecture may also include demonstrations, discussion and field trips.

**General Education Requirements:** NS

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 104 Plants In Today's World**

3 cr.

Structure, functions, life histories, taxonomy and evolution of representative plants throughout the plant kingdom. Lecture, lab, and may also include demonstrations, discussion and field trips.

**Prerequisites:** none.

**Course Rules:** Previously BOT 100.

**General Education Requirements:** NS+

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 141 Heredity**

3 cr.

Principles of heredity with applications to plant, animal and human inheritance; current advances in genetics and their bearing on the life sciences. Lecture and may also include demonstrations, discussion and field trips.

**Prerequisites:** none.

**Course Rules:** Previously CGS BIO 160.

**General Education Requirements:** NS

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 141X Heredity**

3 cr.

Principles of heredity with applications to plant, animal and human inheritance; current advances in genetics and their bearing on the life sciences. Lecture and may also include demonstrations, discussion and field trips.

**Prerequisites:** none.

**Course Rules:** Previously CGS BIO 160.

**General Education Requirements:** NS

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 150 Foundations of Biological Sciences I**

5 cr.

First semester of a two semester course designed for majors in biological sciences. Cell structure/function, cellular metabolism enzymes, respiration, photosynthesis, information flow DNA, RNA, protein, principles of genetics, and speciation and evolutionary theory.

**Prerequisites:** 1 year of high school Chemistry with a grade of B or better; or CGS CHE 112; or consent of instructor.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 152 Foundations of Biological Sciences II**

5 cr.

Second semester of a two semester course designed for majors in biological sciences. Continuation of CGS BIO 150.

**Prerequisites:** grade of C or better in CGS BIO 150(P).

**Course Rules:** Topics include: a survey of the three domains of life, selected topics in plant and animal physiology, and ecology at multiple levels of the biological hierarchy.

**General Education Requirements:** NS+

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 180 Introduction to Human Biology**

3 cr.

Introduction to the development, nature, and processes of human adaptability. Lecture and may also include demonstrations, discussion and field trips.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 184 Biology of Human Sexuality and Reproduction**

3 cr.

Biological aspects of human sexuality and reproduction, including topics from a biological perspective: birth control, sexually transmitted diseases, birth defects, abortion, differences between the sexes, and the manipulation of the human reproductive process by science. Lecture and may also include demonstrations, discussion and field trips.

**Prerequisites:** none.

**Course Rules:** Previously ZOO 155.

**General Education Requirements:** NS

**Last Taught:** Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 190 Introduction to Environmental Science**

3 cr.

Principles underlying the proper management of our resources: water, soils, minerals, forests, wildlife and human. This meets the statutory requirement for Conservation of Natural Resources required for State certification for teachers of science and social sciences.

**Prerequisites:** Previously BIO 107. Lecture and may also include demonstrations, discussion and field trips. A student may not earn credit for both CGS BIO 190 and CGS BIO 191.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 190X Introduction to Environmental Science**

3 cr.

Principles underlying the proper management of our resources: water, soils, minerals, forests, wildlife and human. This meets the statutory requirement for Conservation of Natural Resources required for State certification for teachers of science and social sciences.

**Prerequisites:** Previously BIO 107. Lecture and may also include demonstrations, discussion and field trips. A student may not earn credit for both CGS BIO 190 and CGS BIO 191.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 191 Environmental Science**

3-4 cr.

Contemporary study of the natural world through the human perspective, including humans as a modifying force in the biophysical environment.

Selected topics: ecological principles, pollution, population biology, and environmental management. This course meets the statutory requirement for Conservation of Natural Resources required for State certification for teachers of science and social sciences. Lecture, lab, and may include demonstrations, discussions, and field trips.

**Prerequisites:** none.

**Course Rules:** Previously CGS BIO 108. A student may not earn credit for both CGS BIO 190 and CGS BIO 191.

**General Education Requirements:** NS+

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 192 Environmental Science and Ethics**

4 cr.

An interdisciplinary study of environmental science and the natural world. Emphasis on humans as a modifying force in the biophysical environment and examines the philosophical questions of how best to do this.

**Prerequisites:** none.

**Course Rules:** Students may not receive credit for both CGS BIO 192 and CGS BIO 190 or CGS BIO 191.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 201 Human Structure & Function**

3 cr.

Introduces non-Biology majors to the study of how the human body is organized. Major organ systems of the human body and how its structure relates to function. Lecture, lab, and may also include demonstration.

**Prerequisites:** none.

**Course Rules:** Previously CGS BIO 182.

**General Education Requirements:** NS+

**Last Taught:** Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 202 Anatomy and Physiology 1**

4 cr.

An examination of the structure and function of the human body at the molecular, cellular, tissue, organ, and system levels of organization. The integration of these levels of organization within the human organism is emphasized.

**Prerequisites:** none.

**Course Rules:** Previously CGS BIO 285. Lecture, lab, and may also include demonstrations, discussion and field trips.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 203 Anatomy and Physiology 2**

4 cr.

Examination of the structure/function of the human body at the molecular, cellular, tissue, organ, and system levels. Integration of these levels of organization within the human organism. Second semester of a two-semester class.

**Prerequisites:** CGS BIO 202 or CGS BIO 285.

**Course Rules:** Previously CGS BIO 286. Lecture, lab, and may also include demonstrations, discussion and field trips.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 211 Genetics**

3-4 cr.

Laws of variation and heredity and their modification by environment, genetic engineering, and chromosome behavior with emphasis on human genetics. Lecture, lab, and may also include demonstrations, discussion and field trips.

**Prerequisites:** introductory CGS BIO course.

**Course Rules:** Previously BIO 260.

**General Education Requirements:** NS+

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 251 General Survey of Microbiology**

5 cr.

Survey of micro-organisms and their activities; emphasis on structure, taxonomy, function, ecology, nutrition, physiology, pathology and genetics. Survey of applied microbiology: agricultural, medical, industrial, environmental and food. The laboratory is an introduction to standard techniques.

**Prerequisites:** a grade of C or better in one of the following: CGS BIO 101(P), CGS BIO 150(P), or CGS BIO 202(P), or consent of instructor.

**Course Rules:** CGS CHE 125 recommended.

**General Education Requirements:** NS+

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 298 Special Topics in Biology**

1-3 cr.

Designed to cover topics in biology not ordinarily covered in other classes.

**Prerequisites:** none.

**Course Rules:** Previously CGS BOT 291/CGS ZOO 291.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 299 Reading and Research in Biology**

1 cr.

Supervised undergraduate reading and research in biological sciences. This course is designed to acquaint the undergraduate with the literature and research techniques used in biological investigation and to give practical experience in scientific problem-solving.

**Prerequisites:** consent of instructor.

**Course Rules:** Previously CGS BAC 299, CGS BOT 299, and CGS ZOO 299.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 310 General Ecology**

4 cr.

Interrelationships between living organisms and their environment, ecosystems concepts, population dynamics, community organization and distribution, and application of ecological principles to humans and their environment.

**Prerequisites:** CGS BIO 152(P).

**Course Rules:** Previously CGS BIO 201 and CGS BIO 250. Lecture, lab, and may also include demonstrations, discussion and field trips.

**General Education Requirements:** NS+

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 398 Special Topics: The Ecology of Food Production**

3 cr.

Focused exploration of the environmental impact of industrialized agricultural systems; history and practice of food production and global distribution; current industrialized agricultural practices on the environment; food systems, food security, sustainable agricultural practices and alternative food sources; social, political, ethical, and economic forces that relate to farming practices, global food distribution, and consumption.

**Prerequisites:** Junior standing or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BIO 430 Animal Behavior-Ethology**

3 cr. Undergraduate.

A general introduction to the field of animal behavior. Evolution and natural selection, social behavior, communication, reproduction, orientation and navigation, and hormonal mechanisms of behavior.

**Prerequisites:** CGS BIO 310(P).

**Course Rules:** Previously CGS BIO 373. Lecture, lab, and may also include demonstrations, discussions, and field trips.

**General Education Requirements:** NS+

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Business (CGS BUS)

**CGS BUS 101 Introduction to Business**

3 cr.

Introduction to the role of business in the modern political, social and economic environments; describes career opportunities.

**Prerequisites:** none.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 101X Introduction to Business**

3 cr.

Introduction to the role of business in the modern political, social and economic environments; describes career opportunities.

**Prerequisites:** none.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 110 Personal Finance**

3 cr.

A study of personal financial management. Examines the financial problems and consequent financial decisions required of individuals in our economy. Subjects covered are applications in family budgeting, consumer buying decisions, borrowing, insurance, personal real estate, income taxation, investments, and estate planning.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 194 Career & Life Planning**

2 cr.

This course will enable students to develop career goals and lay out a path for achieving these goals. Students will examine their personal interests, aptitudes, values, decision-making skills, academic plans, and career awareness. This personal, educational, and occupational information will then be organized and translated into an individualized course of action. Integration of career goals with current and future college course work will be stressed.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 201 Introductory Accounting**

4 cr.

Fundamental principles, terminology, techniques, and applications; books, accounts and financial statements for retailing and wholesaling concerns; treatment and presentation of proprietorship, partnership and corporate accounts.

**Prerequisites:** Open to second semester freshmen or cons. instr.

**General Education Requirements:** AP

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 201X Introductory Accounting**

4 cr.

Fundamental principles, terminology, techniques, and applications; books, accounts and financial statements for retailing and wholesaling concerns; treatment and presentation of proprietorship, partnership and corporate accounts.

**Prerequisites:** Open to second semester freshmen or cons. instr.

**General Education Requirements:** AP

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 202 Intermediate Accounting**

4 cr.

Accounting theory principles, concepts, and procedures and their applications as applied to balance sheet and income statement accounts, presentation and interpretation of financial statements; problems of terminology, valuation, and analysis are included.

**Prerequisites:** CGS BUS 201.

**General Education Requirements:** AP

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 204 Managerial Accounting**

3 cr.

Interpretation and application of accounting reports by management in planning, coordinating, and controlling business activities; presentation, analysis and interpretation of financial data; internal control and reports to management; cost-volume-profit relationships, budgets, costs, and managerial decision making.

**Prerequisites:** CGS BUS 201.

**General Education Requirements:** AP

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 210 Business Communication**

3 cr.

Study and practice of the techniques of achieving clarity, brevity and effectiveness in business communication. Planning, preparation, critiquing of business letters, memoranda, short and long reports, resumes, manuals of procedure, and oral reports.

**Prerequisites:** CGS ENG 102 or cons instr.

**Course Rules:** CGS BUS 210 and CGS ENG 210 are the same course; they count as repeats of each other.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 222 Diversity in Business**

3 cr.

Explores diversity in business within the United States political and social context. Examines impact on the workplace and experiences of minority entrepreneurs. Includes the perspectives and experiences of at least two groups: African Americans, American Indians, Hispanics, and/or Asian Americans in the United States.

**Prerequisites:** none.

**General Education Requirements:** CD, SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 230 Introduction to Management Information Systems**

3 cr.

An introductory course designed to provide students with a fundamental knowledge of management information systems and their concepts including the use of information systems for management decision-making and the impact of information systems on management. Topics may vary as technology changes but the students will learn the tools of productivity i.e. Excel such as electronic spreadsheet, data base, and graphics.

**Prerequisites:** Second-semester freshman or cons. instr.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 242 Business Ethics**

3 cr.

Critical discussion of ethical reasoning and moral values in business and industry; includes relevant case studies and readings.

**Prerequisites:** none.

**Course Rules:** CGS BUS 242 and CGS PHI 243 are the same course; they count as repeats of one another.

**General Education Requirements:** HU

**Last Taught:** UWinterIM 2024, Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 243 Economic and Business Statistics**

3 cr.

Elementary theory and business application of statistical techniques, probability and normal distribution, hypothesis testing, analysis and interpretation of economic and business data, index numbers, regression and time series analysis and Chi squares.

**Prerequisites:** A grade of C or better in CGS MAT 105 or CGS MAT 108 or equivalent.

**Course Rules:** CGS BUS 243 and CGS ECO 243 are the same course.

**General Education Requirements:** MS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 244 International Business**

3 cr.

This course focuses on the study of how businesses conduct their operations in the global economy. The political, legal, cultural, social and economic challenges confronting businesses in international markets will be examined. Topics covered include trade strategies, international business operations, international trade and financial theory and policy, foreign exchange markets and the theory of multi-national enterprises.

**Prerequisites:** An economics course or cons. instr.

**General Education Requirements:** SS

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 272 The Legal Environment of Business**

3 cr.

UW COLLEGES COURSES ONLINE ONLY. Contemporary and comprehensive examination of the legal and ethical environment in the United States within which business operates. Elements of traditional business law; knowledge of the legal and regulatory environment of business will provide a practical background for students in many careers.

**Prerequisites:** Prereq first semester college students require consent of instructor.

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 294 Internship in Business or Economics**

1-3 cr.

Internship providing students with opportunities to apply knowledge and skills learned in Business and/or Economics courses to professional experiences while working in a business or non-profit organization.

**Prerequisites:** Prior Business or Economics class and cons. instr.

**Course Rules:** Credit is based on hours employed and on instructor evaluation of student learning. Repeatable for a maximum of six credits.

**General Education Requirements:** AP

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 299 Independent Studies**

1-3 cr.

**Prerequisites:** consent of instructor.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS BUS 360 Principles of Marketing**

3 cr.

The marketing system will be analyzed as the process in our socioeconomic system for anticipating and satisfying consumer needs, adjusting to demand, and selling and procuring products and services.

**Prerequisites:** none.

**Last Taught:** Summer 2022, UWinterIM 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Chemistry (CGS CHE)

**CGS CHE 100 Chemical Science**

4 cr.

Introductory course in general inorganic chemistry.

**Prerequisites:** Math Placement Level 30 or grade of C or better in CGS MAT 105, CGS MAT 108 or CGS MAT 116.

**Course Rules:** Designed to prepare students with little or no previous science training for success in CGS CHE 145/CGS CHE 155 or CGS CHE 125/CGS 204. Not open to students with credit in CGS CHE 112, CGS CHE 125, CGS CHE 145, CHEM 100 or CHEM 102.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 103 Survey of Biochemistry**

5 cr.

A foundational course in the chemical makeup and metabolic processes of living organisms. Consists of lectures and laboratories and may also include discussions and demonstrations.

**Prerequisites:** grade of C- or better in CGS CHE 125 or C- or better in CGS CHE 145 with consent of instructor; or consent of instructor.

**Course Rules:** Previously CGS CHE 204. Together CGS CHE 125 and CGS CHE 204 constitute a year course with emphasis on organic and biological chemistry. CGS CHE 204 is equivalent to the combination of CGS CHE 203 and CGS CHE 211. A student may not earn more than four credits by taking CGS CHE 203/CGS CHE 211 and CGS CHE 204, or CGS CHE 204 and CGS CHE 250. A student may not earn more than three credits by taking CGS CHE 203 and CGS CHE 250.

**General Education Requirements:** NS+

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 112 Foundations of Chemistry**

2 cr.

Designed to prepare students with limited science backgrounds for success in CGS CHE 125, the CGS CHE 145/ CGS CHE 155 sequence, or CGS CHE 165. Through lectures and discussions, this course emphasizes fundamental chemical concepts, chemical nomenclature and problem-solving skills.

**Prerequisites:** none.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 123 Chemistry and Society**

3 cr.

A course for non-science majors that covers basic chemistry concepts in a social context. May include explorations of how chemistry impacts the environment, public health, energy policies, and other contemporary social issues. Consists of lectures and may also include discussions and demonstrations.

**Prerequisites:** None.

**Course Rules:** Not a suitable prerequisite for higher-level chemistry courses or pre-professional programs. A student may not earn more than four credits by taking CHE 121, CHE 123 and CHE 124.

**General Education Requirements:** NS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 124 Applied Chemistry and Society**

4 cr.

A course for non-science majors that covers basic chemistry concepts in a social context. May include explorations of how chemistry impacts the environment, public health, energy policies, and other contemporary social issues. Consists of lectures and laboratories and may also include discussions and demonstrations.

**Prerequisites:** none.

**Course Rules:** Not a suitable prerequisite for higher-level Chemistry courses or pre-professional programs. A student may not earn more than four credits by taking CGS CHE 121, CGS CHE 123 and CGS CHE 124.

**General Education Requirements:** NS+

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 124X Applied Chemistry and Society**

4 cr.

A course for non-science majors that covers basic chemistry concepts in a social context. May include explorations of how chemistry impacts the environment, public health, energy policies, and other contemporary social issues. Consists of lectures and laboratories and may also include discussions and demonstrations.

**Prerequisites:** none.

**Course Rules:** Not a suitable prerequisite for higher-level Chemistry courses or pre-professional programs. A student may not earn more than four credits by taking CGS CHE 121, CGS CHE 123 and CGS CHE 124.

**General Education Requirements:** NS+

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 125 Introductory Chemistry**

5 cr.

General chemistry with an emphasis on organic chemistry. Designed for students in nursing and related fields.

**Prerequisites:** One year of high school chemistry, CGS CHE 112(P), CGS CHE 100(P), or another preparatory chemistry course and Math Placement Level 30, or grade of C or better in CGS MAT 105(P), CGS MAT 108(P), or CGS MAT 116(P).

**Course Rules:** Students may not count both CGS CHE 125 and CGS CHE 145 toward the natural science or laboratory science requirement for the associate degree. Does not serve as a prerequisite for CGS CHE 155.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 145 General Chemistry I**

5 cr.

For students whose programs require a year of college chemistry or who plan to take advanced courses in chemistry.

**Prerequisites:** Demonstrated competency at MAT 105 level or concurrent MAT 105 enrollment or cons. instr. One year of recent high school chemistry, CHE 112, or another preparatory chemistry course is recommended, but not required.

**Course Rules:** Students may not count both CHE 125 and CHE 145 toward the Natural Sciences or Laboratory Science degree designation requirement for the Associate of Arts and Science degree.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 155 General Chemistry II**

5 cr.

The second semester of a one-year course in college chemistry. Consists of lectures, discussions, and laboratories.

**Prerequisites:** a grade of C- or better in CGS CHE 145(P) or consent of instructor.

**Course Rules:** For students whose programs require a year of college chemistry or who plan to take further courses in chemistry.

**General Education Requirements:** NS+

**Last Taught:** Spring 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 165 Chemistry for Engineers**

5 cr.

A one-semester chemistry course for engineering students. Topics include measurements, atomic theory, stoichiometry, molecular structure, thermochemistry, electrochemistry, solid state, material science, and organic chemistry.

**Prerequisites:** Grade of C- or better in CHE 112 or CHE 125 or grade of B or higher in high school chemistry and a grade of C or better in MAT 110 or MAT 124 or placement into MAT 221 based on placement test score, or cons. instr. Not a suitable substitute for the CHE 145/155 prerequisite for organic chemistry.

**General Education Requirements:** NS+

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 203 Survey of Biochemistry**

3 cr.

A foundational course in the chemical makeup and metabolic processes of living organisms. Consists of lectures and may also include discussions and demonstrations.

**Prerequisites:** A grade of C- or better in CGS CHE 125 or C- or better in CGS CHE 145 with cons. instr. or cons. instr.

**Course Rules:** Together CGS CHE 125 and CGS CHE 203 constitute a year course with emphasis on organic and biological chemistry. A student may not earn more than four credits by taking CGS CHE 203/211 and CGS CHE 204, or CGS CHE 204 and CGS CHE 250. A student may not earn more than three credits by taking CGS CHE 203 and CGS CHE 250.

**General Education Requirements:** NS

**Last Taught:** Summer 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 214 Physiological Chemistry**

3 cr.

Lectures and demonstrations on elementary aspects of organic and physiological chemistry. Covers topics typical of a biochemistry course such as biological molecules, metabolism, nutrition, protein function, and molecular biology. For students interested in physical therapy who have not had CGS CHE 343 or CGS CHE 363.

**Prerequisites:** A grade of C- or better in CGS CHE 125 or C- or better in CGS CHE 145 with cons. instr. or cons. instr.

**General Education Requirements:** NS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CHE 250 Review and Updates in Chemistry and Biochemistry**

3 cr.

This course was designed specifically for the nursing consortium and is to be taken primarily by RNs already accepted into their BSN degree completion program.

**Prerequisites:** none.

**Course Rules:** This course is not a substitute for the CGS CHE 125/CGS CHE 203 sequence required of students at the beginning of their academic careers, even if planning to enter the nursing profession. CGS CHE 250 begins with a review of relevant topics in chemistry, both general and organic, and then covers topics typical of a biochemistry course such as biological molecules, metabolism, nutrition, protein function, and molecular biology. A student may not earn more than four credits by taking CGS CHE 203/CGS CHE 211 and CGS CHE 204, or CGS CHE 204/CGS CHE 250. A student may not earn more than three credits by taking CGS CHE 203/CGS CHE 250.

**General Education Requirements:** NS

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CGS CHE 299 Independent Study in Chemistry**

1-3 cr.

Independent study in Chemistry.

**Prerequisites:** consent of instructor.**General Education Requirements:** NS**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS CHE 343 Organic Chemistry I**

3 cr.

The first semester of a year course in organic chemistry. Consists of lectures and may also include discussions and demonstrations.

**Prerequisites:** a grade of C- or better in CGS CHE 155 or cons. instr.**General Education Requirements:** NS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS CHE 351 Organic Chemistry Laboratory Part I**

1 cr.

Three to four hours of laboratory per week. The first semester of a year course in organic chemistry laboratory.

**Prerequisites:** CGS CHE 343 or concurrent enrollment.**Course Rules:** A student may not earn more than 2 credits by taking

CGS CHE 351, CGS CHE 352 and CGS CHE 361.

**General Education Requirements:** NS**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS CHE 352 Organic Chemistry Laboratory**

2 cr.

Basic laboratory techniques for organic chemistry including commonly used synthetic methods, purification and characterization of reaction products. Six to eight hours of laboratory per week.

**Prerequisites:** A grade of C- or better in CHE 343 or cons. instr.**Course Rules:** CHE 352 is equivalent to the combination of CHE 351 and CHE 361. A student may not earn more than two credits by taking CHE

351, CHE 352 and CHE 361. Recommended: A grade of C- or better in CHE 363 or concurrent registration.

**General Education Requirements:** NS+**Last Taught:** Summer 2022, UWinterIM 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS CHE 361 Organic Chemistry Laboratory Part II**

1 cr.

Three to four hours of laboratory per week; second semester of a year course in organic chemistry laboratory.

**Prerequisites:** A grade of C- or better in CGS CHE 351 or consent of instructor.**Course Rules:** A student may not earn more than two credits by taking CGS CHE 351, CGS CHE 352 and CGS CHE 361.**General Education Requirements:** NS+**Last Taught:** Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS CHE 363 Organic Chemistry II**

3 cr. Undergraduate.

Continuation of Organic Chemistry I. Consists of lectures and may also include discussions and demonstrations.

**Prerequisites:** A grade of C- or better in CHE 343 or cons. instr. NS; if combined with CHE 361 or CHE 352, also LS**General Education Requirements:** NS**Last Taught:** Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Communication Arts & Theatre (CGS CTA)

**CGS CTA 101 Introduction to Interpersonal Communication**

3 cr.

Introduction to communication theory. Topics studied include perception, listening, nonverbal communication, language, and conflict management.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS CTA 103 Introduction to Public Speaking**

3 cr.

Study of the principles and techniques of effective speaking and listening in a variety of selected communication experiences.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS CTA 103X Introduction to Public Speaking**

3 cr.

Study of the principles and techniques of effective speaking and listening in a variety of selected communication experiences.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS CTA 104 Applied Journalism**

1-3 cr.

Students are given the opportunity to gain practical experience in journalistic concepts and techniques through work on available campus media outlets.

**Prerequisites:** none.**General Education Requirements:** AP**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS CTA 115 Introduction to Business and Professional Communication**

3 cr.

An introduction to the principles of effective communication in business and professional settings. Topics studied include organizational culture, diversity, listening, verbal and nonverbal messages, conflict and negotiation, interviewing, communication networks and channels, teambuilding, and presentations.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS CTA 130 Introduction to Theatre**

3 cr.

A study of the development of theatre as an art form. Emphasis is on the role of the audience and the understanding and appreciation of the nature of theatre, important plays, dramatic styles, and elements of a theatrical production.

**Prerequisites:** none**General Education Requirements:** A**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 131 Theatre Laboratory**

3 cr.

Participation in theatrical production activities including directing, stage management, technical production, lighting, stage design, costuming, make-up, acting, and theatre management.

**Prerequisites:** none.

**Course Rules:** Repeatable to 9 cr max.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 150 Introduction to Film**

3 cr.

Study of the history and development of film as a distinctive medium of communication, an art form and an industry. Students will be introduced to a wide range of theoretical perspectives that have been applied to film in academic settings: these will include but are not limited to such concepts as narrative, genre, 'mise en scene', and star image.

**Prerequisites:** none.

**General Education Requirements:** A

**Last Taught:** UWinterIM 2024, Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 201 Introduction to Mass Communication**

3 cr.

A survey course examining print, electronic and persuasive media from a historical and theoretical perspective. Media discussed include newspapers, magazines, books, radio, television, public relations, advertising and the Internet.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 202 History of Media Censorship**

3 cr.

Examines the censorship of mass media. Students will learn about the historical and cultural climates in which censorship often occurs. Trends of censorship will be surveyed; individual case studies will be examined.

**Prerequisites:** CGS ENG 98(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 210 Introduction to Intercultural Communication**

3 cr.

An overview of how people communicate with people from other cultures. Communication behavior both verbal and nonverbal will be examined to determine their role in other cultures. Students will learn to communicate more competently with people from other cultures and ethnic groups.

**Prerequisites:** none.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 210X Introduction to Intercultural Communication**

3 cr.

An overview of how people communicate with people from other cultures. Communication behavior both verbal and nonverbal will be examined to determine their role in other cultures. Students will learn to communicate more competently with people from other cultures and ethnic groups.

**Prerequisites:** none.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 218 Popular Culture in the Media**

3 cr.

An introduction to the analysis and interpretation of Popular Culture as an academic discipline. The class will examine forms of advertisement and entertainment including print and TV ads, films, television, music, and music videos.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** UWinterIM 2024, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 232 Introduction to Acting**

3 cr.

A studio introduction to the foundational techniques of acting, including the actor's vocabulary and performance tools. Improvisation, performance exercises, and scene work used to develop freedom of self-expression and truthful communication skills.

**Prerequisites:** none

**General Education Requirements:** A

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 294 Internship in Communication and Theatre Arts**

1-3 cr.

The Internship Programs course will provide students with an opportunity to apply knowledge and skills learned in Communication and Theatre Arts courses to professional and/or community-based situations at off-campus institutions. Students will prepare for the field work opportunity with appropriate texts provided by the faculty supervisor and schedule regular meetings with the faculty supervisor to evaluate progress. A detailed work journal and final paper reflecting on the academic relevance of the fieldwork are required. At the end of the semester, the professor will evaluate the student's experience based on the work journal and final paper and assign a letter grade in consultation with the organization supervisor.

**Prerequisites:** A minimum of 12 completed course credits and at least 2.5 GPA at date of enrollment.

**General Education Requirements:** AP

**Last Taught:** Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 298 Topics in Speech and Dramatic Arts**

1-3 cr.

The nature and subject of this course will be announced in the course schedule.

**Prerequisites:** May be determined by instructor.

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CTA 299 Independent Studies**

1-3 cr.

Readings, reports, papers, or projects to be determined by the individual instructor.

**Prerequisites:** Introductory CTA course and consent of instructor.

**Course Rules:** Repeatable.

**Last Taught:** Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Computer Science (CGS CPS)

**CGS CPS 103 Computer Fundamentals**

1 cr.

An overview of computers, what they are and how they work. Typical topics include history, hardware, programming languages and operating systems, application software, communications, career opportunities and ethical issues. Also included is an introduction to the campus computing network.

**Prerequisites:** none.

**Course Rules:** Students may not receive credit for both CPS 103 and CPS 110.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 105 Computer Applications**

1-3 cr.

Principles and use of computer applications including word processors, spreadsheets, and data bases. May also cover other applications such as telecommunications, graphics, statistics, simulations, or CAI. Does not include teaching of programming.

**Prerequisites:** none.

**Course Rules:** Students may not receive credit for both CPS 105 and any of CPS 106, CPS 107, CPS 108. Course may not be taken more than once for degree credit.

**General Education Requirements:** AP

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 106 Word Processing and Presentation Concepts**

2 cr.

Word-processing and presentation applications including typical and advanced functions, and features. Emphasis on creating, editing, saving and retrieving files; using templates; creating organized tables. Prepares for Microsoft certifications in Word, Expert Word, and PowerPoint.

**Prerequisites:** none.

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 107 Spreadsheet Concepts**

2 cr.

Spreadsheet applications emphasizing functions, data-analysis, workbooks, data-validation, conditional-formatting, data-lookup, PivotTables and charts. Prepares for Microsoft certifications in Excel and Excel Expert.

**Prerequisites:** none.

**Course Rules:** Students may not receive credit for both CPS 107 and CPS 105.

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 108 Database Concepts**

1 cr.

Creation of data files and data manipulation editing, sorting, deleting, etc.. Report definition and generation. Accessing and searching of remote data bases. Includes extensive hands-on experience.

**Prerequisites:** none.

**Course Rules:** Students may not receive credit for both CPS 108 and CPS 105.

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 110 Introduction to Computer Science BASIC**

3 cr.

How computers work, communicating with computers, areas of application and significance, simple Algebraic Language programming, elementary data processing and problem solving. Instruction and significant experience in BASIC.

**Prerequisites:** MAT 105 or cons. instr.

**Course Rules:** Students may not receive credit for both CPS 110 and either of CPS 103 or CPS 130.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 130 Introduction to Programming BASIC**

1-2 cr.

The basics of programming in BASIC for beginners. Introductory information on editing, program structure, data types, input, output, calculating, looping and selection. Short programs will be written and tested on a computer.

**Prerequisites:** CGS MAT 105 or cons. instr.

**Course Rules:** Students may not receive credit for both CGS CPS 130 and CGS CPS 110.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 139 Web Page Development**

2 cr.

Development of web pages using HTML and Cascading Style Sheets. Introduction to XML documents and XHTML standards.

**Prerequisites:** none.

**Course Rules:** Course involves extensive hands-on experience.

**General Education Requirements:** AP

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 202 Introductory Programming Using Python**

3 cr.

Introduction to Python programming language. Decision structures, loop structures, functions, libraries and basic graphics. Computing with numbers, strings and files; regular expressions and problem solving with objects.

**Prerequisites:** Math Placement Level 30, which is achieved by one of the following: (a) grade of C or better in CGS MAT 105, CGS MAT 108, or CGS MAT 116; (b) score of 5 or higher on the IB Mathematical Studies - SL; (c) score of 3 or higher on the AP statistics exam; or (d) score of 63 or higher on the CLEP College Algebra Exam.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 245 Computer Science I: Object-Oriented Programming**

4 cr.

Introduces the fundamental concepts of programming from an object-oriented perspective. Emphasizes developing fundamental programming skills in the context of a language that supports the object-oriented paradigm.

**Prerequisites:** Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in CGS MAT 105, 108, or 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.

**General Education Requirements:** MS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 255 Computer Science II: Objects and Data Abstraction**

3 cr.

Continuation of CPS 245. Methodology of programming from an object-oriented perspective. Introduces the basics of human-computer interfaces, graphics, and the implementation of fundamental data structures including lists, stacks, and queues.

**Prerequisites:** a grade of C or better in CGS CPS 245(P).

**Course Rules:** Includes a significant software development project, with an emphasis on software engineering principles and debugging techniques.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 260 Programming in Assembly Language**

3 cr.

An introduction to microcomputer assembly language programming and architecture for students with previous exposure to a high level language. Topics typically include machine instruction sets, interrupts, Boolean logic, binary coding of numeric and alphanumeric data, arrays and input/output. Optional topics may include file access, macros, graphics and mixed language programming.

**Prerequisites:** CPS 110, CPS 130, CPS 216, or CPS 245, or cons. instr.

**General Education Requirements:** MS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS CPS 294 Internship in Computer Science**

1-3 cr.

Internship or service learning project partnering students with organizations in the community or on campus. Practical experience appropriate to the student's educational goals by applying knowledge and skills learned in previous CPS courses in our institution. Student and instructor should meet regularly to prepare for and evaluate experiences.

This course should not be used to employ students as campus workers by substituting credit for wages.

**Prerequisites:** at least four credits of prior CGS CPS coursework and consent of instructor.

**Course Rules:** Repeatable for a maximum of six credits.

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Economics (CGS ECO)

**CGS ECO 101 Intro to Economics**

3 cr.

A study of economic systems and their interdependence in the global economy, with emphasis on problems and policies. Among the subjects included are competitive and non-competitive markets, gross domestic product determination and policy, the U.S. financial system, and global trade.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ECO 110 Economics of Personal Finance**

1 cr.

Critical personal financial management topics with the goal of helping students develop successful financial skills. Activity-based with emphasis on your life as the basis for assignments.

**Prerequisites:** none.

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ECO 203 Economics - Macro**

3 cr.

Macro analysis, including national income, commercial banking, business fluctuations, monetary and fiscal policies, and economic growth.

Designed for students who desire a basic one-year course with CGS ECO 204 in economics.

**Prerequisites:** CGS MAT 105 and CGS ENG 101 or consent of instructor.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ECO 204 Economics - Micro**

3 cr.

Emphasizes the micro economic approach concerning households, firms, and market structures with a focus on price determination and distribution of income. Foreign trade and international financial institutions are included.

**Prerequisites:** none. CGS MAT 105 and CGS ENG 101 or cons. instr. recommended.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ECO 243 Economic and Business Statistics**

3 cr.

Elementary theory and business application of statistical techniques, probability and normal distribution, hypothesis testing, analysis and interpretation of economic and business data, index numbers, regression and time series analysis and Chi squares.

**Prerequisites:** A grade of C or better in CGS MAT 105 or CGS MAT 108 or equivalent.

**Course Rules:** CGS BUS 243 and CGS ECO 243 are the same course.

**General Education Requirements:** MS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Education (CGS EDU)

### CGS EDU 201 Concepts, Issues, and Field Experience in Education

3 cr.

Classroom discussion 2 hrs/wk related to student-teacher-school-community interactions, including developmental aspects, sociocultural influences, and human relations. Off-campus experience at an educational institution 4 hrs/wk usually required; may vary with DPI/4-year campus requirements.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS EDU 220 Education in a Pluralistic Society

3 cr.

Prepares students to be competent teachers in a pluralistic society. Explores current theory and research on: immigration, poverty, issues particular to Native Americans, African Americans, Hispanic Americans and other culture/ethnic groups, exceptionalism, sexual orientation, religion and other special interest groups.

**Prerequisites:** none.

**Course Rules:** Students in this course will have contact with students, colleagues, parents, and agencies representing different cultures, ethnicities and alternative lifestyles. The knowledge base and rationale for this course is specified in the Wisconsin Department of Public Instruction PI 34.15 4 and 118.19 statutory requirements for Teacher Education and Licensing.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS EDU 230 Educational Psychology

3-4 cr.

Developmental process in children in the context of psychological principles of teaching and learning. Emphasis will be placed on understanding the social, emotional, physical, and intellectual development of children and adolescents.

**Prerequisites:** a grade of C- or better in one of the following: CGS PSY 201(P), CGS PSY 202(P), or CGS EDU 201(P); or consent of instructor.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS EDU 283 Literature for Children

3 cr.

Folk literature including the fairy tale, fable, myth, epic, and tall tales. Emphasis on modern fanciful and realistic fiction, traditional and modern poetry, and ways of presenting literature to children.

**Prerequisites:** CGS ENG 101(P).

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS EDU 300 The Exceptional Individual

3 cr.

The Exceptional Individual: The purpose of this course is to educate and prepare students to understand and work with individuals with disabilities within schools by providing accurate information about disabilities and current best practices in education. Emphasis will be placed on understanding historical, legal, and philosophical frameworks; defining categories of disability; describing legal and ethical perspectives; how issues of accessibility in educational and social arenas affect people with disabilities; learning the role disability plays in the lives of families; becoming familiar with label criteria for disabilities; and the examination of how the referral/placement processes can either discriminate against marginalized populations or facilitate inclusion.

**Prerequisites:** CGS PSY 201 or CGS PSY 202 with a grade of C- or better or cons. instr.; CGS EDU 201 and either CGS PSY 250 or CGS PSY 360 recommended.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS EDU 328 Introduction to Teaching Science and Mathematics in Middle and High School

3 cr.

Exploration of science and mathematics teaching through developing some foundational teaching strategies and working with students in middle and high schools.

**Prerequisites:** none.

**Course Rules:** CURRINS 328 and CGS EDU 328 are jointly offered, and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Engineering (CGS EGR)

### CGS EGR 103 Engineering Spreadsheet Tools

0-1 cr.

Fundamental spreadsheet tools for use in engineering schooling and future career. Introduction to computers, flow charts, spreadsheets, functions, graphics, curve fitting, logical statements, statistical analysis, unit conversion, and other data analysis techniques.

**Prerequisites:** Students may not receive credit for both CGS EGR 103 and CGS EGR 105. Students who complete both CGS EGR 102 and CGS EGR 103 will receive the AP/IS designation of CGS EGR 105.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS EGR 105 Engineering Fundamentals

3 cr.

This course is designed to equip engineering students with the necessary tools and background information to prepare them to be successful engineering students as well as a successful practicing engineer. Topics covered in this course include project management, team work, technical writing, working with data and using spreadsheets, creating presentations, engineering design, and a thorough understanding of the engineering profession. A student may not receive credit for CGS EGR 100 or CGS EGR 102 or CGS EGR 103 and CGS EGR 105.

**Prerequisites:** CGS MAT 105 or concurrent enrollment.

**General Education Requirements:** AP, IS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS EGR 110 Engineering Graphics with Computer Aided Drafting**

3 cr.

Graphical communication, descriptive geometry elements, visualization, engineering drawing techniques, orthographic projection, pictorial representation, auxiliary views, section views, and basic dimensioning. Incorporates computer aided drafting CAD with engineering applications using 2-D drawing and 3-D modeling techniques.

**Prerequisites:** none.**Course Rules:** Previously CGS GRA 110.**General Education Requirements:** AP**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS EGR 111 Solid Modeling and Design**

1 cr.

This project-based course introduces students to reverse engineering and three-dimensional design using industry standard solid modeling software SolidWorks. The course assumes some previous knowledge of solid modeling, such as would typically be gained in an introductory engineering graphics and computer aided drafting course. This course will include one or more reverse engineering projects that will require the students application of engineering problem skills.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS EGR 201 Statics**

3 cr.

Principles of mechanics, force systems, equilibrium, structures, distributed forces, moments of inertia of areas, and friction. The course will serve the requirements of the several engineering curricula.

**Prerequisites:** C or better in CGS MAT 221 or cons instr.**Course Rules:** Previously MEC 201.**General Education Requirements:** NS**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS EGR 202 Dynamics**

3 cr.

Kinematics, force-mass-acceleration relations, work and energy, impulse and momentum, and moments of inertia of mass. This course will serve the requirements of the several engineering curricula.

**Prerequisites:** a grade of C- or better in CGS EGR 201 and a grade of C or better in CGS MAT 232; or consent of instructor.**Course Rules:** Previously MEC 202.**General Education Requirements:** NS**Last Taught:** Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS EGR 203 Mechanics of Materials**

3-5 cr.

Stress and strain, torsion, bending of beams, compound stresses, principal stresses, deflection of beams, statically indeterminate members, columns, elastic buckling, fatigue, creep, impact, and concrete properties.

**Prerequisites:** Grade of C or better in CGS EGR 201 or consent of instructor.**General Education Requirements:** NS**Last Taught:** Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS EGR 240 Introduction to Engineering Programming**

3 cr.

Introduction to engineering programming; problem solving with structured programming techniques using an engineering-oriented programming language such as MATLAB. Topics include control structures, functions, arrays and matrices.

**Prerequisites:** Math Placement Level 30, which is earned by any of the following: (a) Level 30, 35, or 36 on Math Placement Test; (b) grade of C or better in CGS MAT 105, CGS MAT 108 or 116; (c) score of 5 or higher on the IB Mathematical Studies - SL; (d) score of 3 or higher on the AP statistics exam; or (e) score of 63 or higher on the CLEP College Algebra Exam.**Course Rules:** CGS CPS 240 and CGS EGR 240 are jointly offered and count as repeats of one another. Equivalent to COMPSCI 240.**Last Taught:** Spring 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS EGR 263 Engineering Thermodynamics**

3 cr.

First and second laws of thermodynamics; thermodynamic properties of real and ideal gases, vapors, and mixtures; analysis of power and refrigeration cycles.

**Prerequisites:** CGS CHE 145 or CGS CHE 165 or CGS PHY 201 or CGS EGR 202, and CGS MAT 223 or CGS MAT 234 or concurrent enrollment, or cons. instr.**General Education Requirements:** NS**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS EGR 282 Engineering Economics**

3 cr.

Economic and financial factors in the engineering environment to be considered in managerial decision making. Emphasizes the time value of money, present worth analysis, uniform series, rate of return, benefit cost ratios, depreciation, income taxes, inflation.

**Prerequisites:** CGS MAT 110, CGS EGR 105 or CGS EGR 103 or CGS CPS 107 or consent of instructor.**Last Taught:** Summer 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS EGR 291 Special Topics in Engineering**

1-3 cr.

In-depth coverage of one or more topics in engineering, engineering graphics, or engineering mechanics not covered by an existing course. Topics related to current issues or new technology are particularly appropriate.

**Prerequisites:** none.**Last Taught:** Summer 2022, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS English (CGS ENG)

### CGS ENG 89 Writing Studio for English 101

0 cr.

A small group and individualized instruction course that helps students develop college-level writing and critical reading skills. Emphasizes writing process strategies. Taken concurrently with a composition course or another writing-intensive class.

**Prerequisites:** none.

**Course Rules:** Fee for 1 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Satisfactory/Unsatisfactory only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ENG 97 TRIO Introduction to College Writing

0 cr.

A composition course focusing on the conventions of academic writing, the composing process, critical thinking, and critical reading. Reading and writing activities designed to prepare students for successful transition to college-level writing.

**Prerequisites:** none.

**Course Rules:** Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ENG 98 Introduction to College Writing

0 cr.

A composition course focusing on the conventions of academic writing, the composing process, critical thinking, and critical reading. Emphasis will be on reading and writing activities designed to prepare students for successful transition to college-level writing.

**Prerequisites:** none.

**Course Rules:** Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ENG 99 Writing Studio for English 102

0 cr.

A small group and individualized instruction course that helps students develop college-level writing and critical reading skills. Emphasizes writing process strategies. Taken concurrently with a composition course or another writing-intensive class.

**Prerequisites:** none.

**Course Rules:** Fee for 1 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ENG 101 College Writing and Critical Reading

3 cr.

A composition course focusing on academic writing, the writing process, and critical reading. Emphasis will be on essays that incorporate readings.

**Prerequisites:** A grade of C or better in a basic writing course CGS ENG 97, CGS ENG 98, or CGS LEA 106 when taken as a three-credit course or exemption through a sufficiently high placement assessment.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ENG 101X College Writing and Critical Reading

3 cr.

A composition course focusing on academic writing, the writing process, and critical reading. Emphasis will be on essays that incorporate readings.

**Prerequisites:** A grade of C or better in a basic writing course CGS ENG 97, CGS ENG 98, or CGS LEA 106 when taken as a three-credit course or exemption through a sufficiently high placement assessment.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ENG 102 Critical Writing, Reading, and Research

3 cr.

A composition course focusing on researched academic writing that presents information, ideas, and arguments. Emphasis will be on the writing process, critical thinking, and critical reading.

**Prerequisites:** A grade of C or better in College Writing and Critical Reading (CGS ENG 101) or exemption from CGS ENG 101 through a sufficiently high placement assessment; and a grade of C or better in Academic Reading (CGS LEA 101 or CGS LEC 101) or exemption from CGS LEC 101 through a sufficiently high placement assessment.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ENG 102X Critical Writing, Reading, and Research

3 cr.

A composition course focusing on researched academic writing that presents information, ideas, and arguments. Emphasis will be on the writing process, critical thinking, and critical reading.

**Prerequisites:** A grade of C or better in College Writing and Critical Reading (CGS ENG 101) or exemption from CGS ENG 101 through a sufficiently high placement assessment; and a grade of C or better in Academic Reading (CGS LEA 101 or CGS LEC 101) or exemption from CGS LEC 101 through a sufficiently high placement assessment.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ENG 201 Intermediate Composition

3 cr.

A composition course that builds on learning from first-year college writing to help students develop more advanced reading, writing, and research strategies and skills. Introduces students to key concepts in the field of writing studies and their application to the writing process. Emphasizes independent inquiry, critical reading, and rhetorical adaptability.

**Prerequisites:** Completion of ENG 102 with a grade of C or higher, completion of the first-year writing requirement at a UW System institution, or successful completion of the ENG 102 exemption process.

**General Education Requirements:** AP

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS ENG 202 Writing about Literature

3 cr.

Studying and writing about various types of literature. Helps students develop the ability to write critical, analytical, and explicative papers about literature.

**Prerequisites:** CGS ENG 102, or exemption based on placement test score, or cons instr.

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 203 Creative Writing I**

3 cr.

Chiefly devoted to writing and studying one or more of the following: fiction, poetry and drama.

**Prerequisites:** Exemption from ENG 101 through a sufficiently high placement assessment, or completion of ENG 101, or cons. instr.

**General Education Requirements:** A

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 204 Creative Writing II**

3 cr.

Chiefly devoted to writing and studying one or more of the following: fiction, poetry and drama. A continuation of CGS ENG 203.

**Prerequisites:** CGS ENG 102 and CGS ENG 203, or cons. instr.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 205 Literary Magazines**

1-3 cr.

A study of contemporary literary magazines, including national and student publications produced in print and online, resulting in students collaborating to produce their own literary publications.

**Prerequisites:** CGS ENG 101 or consent of instructor.

**Course Rules:** May be taken for credit more than once.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 206X Technical Writing**

3 cr.

The study and practice of the techniques of achieving brevity, clarity, and fluency in technical prose with emphasis on generating reports, letters, proposals, and other technical writing forms.

**Prerequisites:** CGS ENG 101(P), CGS ENG 102(P), or consent of instructor.

**Course Rules:** Particularly appropriate for students in science, engineering, architecture, and other applied sciences.

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 210 Business Communication**

3 cr.

Study and practice of the techniques of achieving clarity, brevity and effectiveness in business communication. Planning, preparation, critiquing of business letters, memoranda, short and long reports, resumes, manuals of procedure, and oral reports.

**Prerequisites:** CGS ENG 102 or cons instr.

**Course Rules:** CGS BUS 210 and CGS ENG 210 are the same course; they count as repeats of each other.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 237 Digital Storytelling**

3 cr.

Generating dynamic digital stories on key social media platforms. Students will apply both traditional storytelling theory and visual design theory and techniques to write, produce, and publish digital stories.

**Prerequisites:** exemption from CGS ENG 101 through a sufficiently high placement assessment, or completion of CGS ENG 101, or consent of instructor.

**Course Rules:** Counts as a repeat of CGS ENG 290 with similar topic.

**General Education Requirements:** A

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 237X Digital Storytelling**

3 cr.

Generating dynamic digital stories on key social media platforms. Students will apply both traditional storytelling theory and visual design theory and techniques to write, produce, and publish digital stories.

**Prerequisites:** exemption from CGS ENG 101 through a sufficiently high placement assessment, or completion of CGS ENG 101, or consent of instructor.

**Course Rules:** Counts as a repeat of CGS ENG 290 with similar topic.

**General Education Requirements:** A

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 250 Introduction to Literary Studies**

3 cr.

An introduction to the discipline of literary studies through its fundamental approaches to reading, interpreting, and writing about a variety of texts, ranging from the classic to the contemporary with the goal of understanding, appreciating, and enjoying literature.

**Prerequisites:** Exemption from CGS ENG 098 based on placement test score or completion of CGS ENG 098 or cons. instr.

**General Education Requirements:** HU

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 251 Introduction to Drama**

3 cr.

Intensive analysis of dramatic literature using representative types from several periods of drama.

**Prerequisites:** Exemption from CGS ENG 98 based on placement test score or completion of CGS ENG 98 or consent of instructor.

**General Education Requirements:** HU

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 253 Introduction to the Short Story and the Novel**

3 cr.

Intensive analysis of fiction using representative types from several periods of narrative literature.

**Prerequisites:** Exemption from ENG 098 based on placement test score or completion of CGS ENG 098 or cons. instr.

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CGS ENG 255 Introduction to Poetry**

3 cr.

Intensive analysis of poetry using representative types from several periods of poetry. Prereq: Exemption from CGS ENG 98 based on placement test score, or completion of CGS ENG 98, or consent of instructor.

**General Education Requirements:** HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 261 British Literature II**

3 cr.

A study of the development of British literature after 1798 through a survey of significant poetry, drama, fiction, and/or nonfiction.

**Prerequisites:** Exemption from CGS ENG 101 based on placement test score or CGS ENG 101 or consent of instructor.

**Course Rules:** Not open to students with credit in CGS ENG 270.**General Education Requirements:** HU**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 263 American Literature II**

3 cr.

UW COLLEGE COURSES ONLINE ONLY. A study of the development of American literature after 1865 through a survey of significant poetry, fiction, and nonfiction. Not open to students with credit in CGS ENG 272. Prereq: Exemption from 101 based on placement test score or CGS ENG 101 or cons. instr.

**General Education Requirements:** HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 271 Children's Literature**

3 cr.

Survey of literature for children, including techniques of literary study, social contexts, new developments in the field, and criteria for evaluating the quality of fiction, novels, picture books, fairy tales, nonfiction texts, poetry, and plays.

**Prerequisites:** Exemption from CGS ENG 101 based on English placement text score or CGS ENG 101 or consent of instructor.

**Course Rules:** Recommended for students who have achieved sophomore standing.**General Education Requirements:** HU**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 272 American Literature**

3 cr.

A study of the nature of American literature through a survey of significant poetry, drama, fiction, and/or nonfiction by major American authors.

**Prerequisites:** Exemption from ENG 101 based on placement test score or ENG 101 or cons. instr.

**Course Rules:** Not open to students with credit in ENG 262 or 263.**General Education Requirements:** HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 273 Studies in International Literature**

3 cr.

A study of notable authors from a variety of regions and eras, ranging from non-Western traditions such as the Indian, Arabic, West African, Chinese, Japanese and/or Native American to Western traditions such as the Greek, Scandinavian, French, Russian, Australian, and/or Latin American. Content and focus will vary according to instructor.

**Prerequisites:** Exemption from ENG 101 based on placement test score or ENG 101 or cons. instr.

**Course Rules:** Not open to students with credit in ENG 268 or ENG 269.**General Education Requirements:** HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 275 Twentieth Century Novels of the World**

3 cr.

The twentieth century novel in a number of countries usually excluding American and European novels. Explores the cultures of those countries as they are reflected in the novels.

**Prerequisites:** Exemption from CGS ENG 101 based on placement test score or CGS ENG 101 or consent of instructor.

**General Education Requirements:** HU**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 277 Film Studies**

3 cr.

An exploration of some aspect, theory, problem, or distinctive variety of film, particularly narrative film. Emphasis may be upon the history of a genre, a single artist, or the distinctive character of the medium in comparison to drama or narrative fiction.

**Prerequisites:** Exemption from 101 based on placement test score or ENG 101 or cons. instr.

**Course Rules:** May be taken for credit more than once if content changes.**General Education Requirements:** HU**Last Taught:** Fall 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 278 Multicultural Literature in America (CD)**

3 cr.

A study of ethnic literatures in America, chiefly African American, Asian American, Native American, and/or Latino, though not necessarily limited to these groups. May be taken for credit more than once if content changes.

**Prerequisites:** Exemption from CGS ENG 101 based on placement test score or CGS ENG 101 or cons. instr.

**General Education Requirements:** CD, HU**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 279 Women Writers**

3 cr.

A study of women writers through a survey of significant poetry, drama, fiction, nonfiction, and/or film.

**Prerequisites:** Exemption from CGS ENG 101 through a sufficiently high placement assessment, or completion of CGS ENG 101, or cons. instr.

**Course Rules:** CGS ENG 279 and CGS GSW 279 are the same course. May be taken for credit more than once if content changes.

**General Education Requirements:** HU**Last Taught:** Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS ENG 280 Introduction to Shakespeare**

3 cr.

A study of selected plays and sonnets.

**Prerequisites:** Exemption from ENG 101 based on placement test score or ENG 101 or cons. instr.**General Education Requirements:** HU**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 281 A Theme in Literature:**

3 cr.

This theme varies from time to time and may be, for example, philosophical, social, political, or psychological.

**Prerequisites:** Exemption from CGS ENG 101 based on test placement score or CGS ENG 101 or consent of instructor.**Course Rules:** Repeatable with change in topic to 9 credits max.**General Education Requirements:** HU**Last Taught:** Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 282 African American Literature**

3 cr.

A study of African American literature, history, and culture through the survey of significant poetry, fiction, drama, non-fiction, and/or film.

**Prerequisites:** Exemption from CGS ENG 101 through a sufficiently high placement assessment, or completion of CGS ENG 101, or consent of instructor.**General Education Requirements:** CD, HU**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 284 Science Fiction and/or Fantasy Literature**

3 cr.

A study of texts e.g., fiction, nonfiction, poetry, drama, film that speculate on alternative futures or worlds.

**Prerequisites:** Exemption from ENG 101 based on placement test score or ENG 101 or cons. instr.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 285 Literature of Nature**

3 cr.

A study of texts characterizing the natural world as experienced primarily by American writers of the 19th and 20th centuries.

**Prerequisites:** Exemption from CGS ENG 101 based on placement test score or CGS ENG 101 or consent of instructor.**General Education Requirements:** HU**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 290 Special Topics:**

1-3 cr.

Designed to cover topics which cannot be accommodated in usual course format or by other courses. Topics, which will be specified in the campus schedule, could include the study of a literary subgenre, the literature surrounding a specific historical event, or the construction of a campus newspaper or literary magazine. May be taken for credit more than once if content changes.

**Prerequisites:** Exemption from CGS ENG 101 through a sufficiently high placement assessment, or completion of CGS ENG 101, or cons. instr.\***Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 291 Writing Tutor Seminar**

1-3 cr.

An introduction to composition theory and practice with an emphasis on writing center studies and peer tutoring. Taken prior to or concurrently with college peer tutoring work, an experience tutoring writers in other settings, or a related writing studies internship.

**Prerequisites:** Completion of CGS ENG 102 with a grade of B or higher; or successful completion of the core writing requirement exemption process; or completion of CGS ENG 102 with a grade of C or higher and cons. instr.**General Education Requirements:** AP**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 299 Independent Study**

1-3 cr.

Individual student program must be approved by the English Department chair. May be taken for credit more than once if content changes.

**Prerequisites:** consent of instructor.**Course Rules:** Repeatable.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS ENG 305 Literature in Communities**

3 cr.

This course allows upper division/BAAS students the opportunity to participate in developing local or regional literary outreach events, programs, and publications. Students in CGS ENG 305 may serve in a variety of roles, such as literary editor, creative writing workshop facilitator, or event planner, in implementing service-learning projects at local schools, libraries, or other venues. The course will explore the role of literary centers and programs, and small press, journal, and Web publications in creating and sustaining communities, as well as the role literary forms such as stories, memoirs, and poetry play in the lives of individuals and communities. Students will develop and apply critical reading skills and aesthetic criteria in the evaluation of quality literary writing.

**Prerequisites:** Junior standing or consent of instructor**Current Offerings:** <https://catalog.uwm.edu/course-search/>

# CGS Gender, Sexuality, and Women's Studies (CGS GSW)

## CGS GSW 101 Introduction to Gender, Sexuality, and Women's Studies 3 cr.

An introduction to the major issues addressed by women's and gender studies with an emphasis on interdisciplinary social science theories and methodologies involved in gaining accurate knowledge about women's lives and contributions to society, in the US and around the world. Perspectives, texts, and methodologies from across the social science disciplines ranging from history, economics, sociology, political science, public health, criminal justice, psychology, and others will be used to understand the experience of women and the cultural construction of gender.

**Prerequisites:** none.

**General Education Requirements:** IS, SS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS GSW 101X Introduction to Gender, Sexuality, and Women's Studies 3 cr.

An introduction to the major issues addressed by women's and gender studies with an emphasis on interdisciplinary social science theories and methodologies involved in gaining accurate knowledge about women's lives and contributions to society, in the US and around the world. Perspectives, texts, and methodologies from across the social science disciplines ranging from history, economics, sociology, political science, public health, criminal justice, psychology, and others will be used to understand the experience of women and the cultural construction of gender.

**Prerequisites:** none.

**General Education Requirements:** IS, SS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS GSW 102 Women's Voices

3 cr.

An introductory and interdisciplinary humanities course drawing upon diverse texts and methodologies representative of the following humanities disciplines: art, philosophy, religious studies, music, film, history, literature, feminist theory, cultural studies, media studies, and performance art/drama. Students will examine multicultural readings ranging from creative nonfiction, essays, feminist theory, philosophical reflection, fiction, poetry, historical accounts, drama, cultural critique, feminist analysis, memoir, visual arts, letters, diaries, and others to build an understanding of the multiple scholarly approaches in the humanities to the study of women's lives.

**Prerequisites:** none.

**General Education Requirements:** HU, IS

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS GSW 102X Women's Voices

3 cr.

An introductory and interdisciplinary humanities course drawing upon diverse texts and methodologies representative of the following humanities disciplines: art, philosophy, religious studies, music, film, history, literature, feminist theory, cultural studies, media studies, and performance art/drama. Students will examine multicultural readings ranging from creative nonfiction, essays, feminist theory, philosophical reflection, fiction, poetry, historical accounts, drama, cultural critique, feminist analysis, memoir, visual arts, letters, diaries, and others to build an understanding of the multiple scholarly approaches in the humanities to the study of women's lives.

**Prerequisites:** none.

**General Education Requirements:** HU, IS

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS GSW 201 Introduction to LGBTQ Studies

3 cr.

Central concepts of sexual orientation and gender identity work within history, politics, literature, technology, art, music, philosophy, education, and psychology; intersectional dynamics of privilege and oppression as they relate to LGBTQ individuals and culture by exploring the lived experiences of LGBTQ individuals and their families.

**Prerequisites:** Completion of, placement into, or concurrent enrollment in CGS ENG 102.

**General Education Requirements:** HU, IS

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS GSW 202 Feminist Philosophy

3 cr.

An introduction to feminist philosophies through a study and critique of traditional and feminist views about women, their lives, society, and knowledge, with particular attention to theories of women's oppression.

**Prerequisites:** none.

**Course Rules:** CGS PHI 202 and CGS GSW 202 are the same course.

**General Education Requirements:** HU

**Last Taught:** Summer 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS GSW 203 Gender in Popular Culture

3 cr.

Examines ways gender has been/are portrayed in the media, television and movies, popular music, internet, print sources, and other cultural artifacts. Explores and critically examines the forms and functions of popular culture.

**Prerequisites:** none.

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS GSW 204 Introduction to Masculinities**

3 cr.

Central concepts of masculinity work within history, politics, literature, technology, art, music, philosophy, education, and psychology. Students will work towards a deep understanding of the intersectional dynamics of race, gender, class, and other aspects of identity as they relate to the construction of various masculinities.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Last Taught:** Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GSW 210 Women's Health & Sexuality in Society**

3 cr.

This course will offer basic facts about the structure and functioning of the female body; issues in women's health and sexuality will be approached interdisciplinarily and will include physical, mental, emotional, and social health and wellness topics and will be framed by discussions of race, class, and other cultural identities. Cultural, social, economic and political contexts will be explored.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GSW 231 Sex, Power and Public Policy**

3 cr.

Examination of controversial issues of gender that affect equality and power. Includes women's movement and the search for equality, justice and freedom. Examines political and judicial policies that exemplify success and failure.

**Prerequisites:** none.**Course Rules:** CGS POL 231 and CGS GSW 231 are the same course.**General Education Requirements:** SS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GSW 279 Women Writers**

3 cr.

A study of women writers through a survey of significant poetry, drama, fiction, nonfiction, and/or film.

**Prerequisites:** Exemption from CGS ENG 101 through a sufficiently high placement assessment, or completion of CGS ENG 101, or cons. instr.**Course Rules:** CGS ENG 279 and CGS GSW 279 are the same course. May be taken for credit more than once if content changes.**General Education Requirements:** HU**Last Taught:** Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Geography (CGS GEO)

**CGS GEO 101 Introduction to Cultural Geography**

3 cr.

A survey of world patterns of culture, such as population, language, religion, urban and rural settlement, and their causal relationships, emphasizing the global diversity of world cultures, contrasting world views and the issues thus raised.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 102 Roots and Diversity (ES)**

3 cr.

The geography of American ethnic minority groups. An introduction to ethnic geography that examines the experience of people of African, Asian, Hispanic, and Native heritage in the United States and Canada. These ethnic minorities are studied using the major themes of cultural geography such as spatial distribution, migration patterns and locational patterns.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 110 World Regional Geography**

3 cr.

Introduction to cultural geography through the study of representative and significant world regions. Examples will compare and contrast present and potential ethnic, social, political, and environmental problems across select regions of the world, and explore basic solutions.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 123 Physical Geography: Weather and Climate**

4-5 cr.

Study of earth's atmospheric elements in both the short term weather events and long term climate and climate change. Two or four hours of lab per week depending on the credit. Field trips may be required.

**Prerequisites:** none.**Course Rules:** May not be taken for credit by students who have completed CGS GEO 120 or CGS GEO 125.**General Education Requirements:** NS+**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 124 Physical Geography: Landforms**

4-5 cr.

Study of the evolution and distribution of Earth's surface features landforms and physical landscapes along with the processes shaping them. Study covers plate tectonics, volcanoes, faults, rivers and river flow, glaciers, beaches, dunes, landslides, etc. Two or four hours of lab per week depending on the credit. Field trips may be required.

**Prerequisites:** none.**Course Rules:** May not be taken for credit by students who have had GEO 120 or GEO 125.**General Education Requirements:** NS+**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS GEO 125 Physical Geography**

4-5 cr.

The geography of Earth's physical characteristics, including weather and climate, climate types, water, soils, Earth materials, landforms, and Earth resources; study of the processes and interactions creating Earth's physical geographic patterns. Two or four hours of lab per week depending on the credit. Field trips may be required.

**Prerequisites:** none.**Course Rules:** May not be taken for credit by students who have had GEO 120, GEO 123 or GEO 124.**General Education Requirements:** NS+**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 125X Physical Geography**

4-5 cr.

The geography of Earth's physical characteristics, including weather and climate, climate types, water, soils, Earth materials, landforms, and Earth resources; study of the processes and interactions creating Earth's physical geographic patterns. Two or four hours of lab per week depending on the credit. Field trips may be required.

**Prerequisites:** none.**Course Rules:** May not be taken for credit by students who have had GEO 120, GEO 123 or GEO 124.**General Education Requirements:** NS+**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 130 Human Impact on the Environment**

3-4 cr.

A natural science course describing the alteration of the physical environment with the resulting effects on air, water, soils, vegetation, animal life and humans. Field trips may be required. Meets DPI requirements for environmental education at some UW baccalaureate institutions.

**Prerequisites:** none.**Course Rules:** If 4 cr, also LS with lab work.**General Education Requirements:** NS**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 170 Disasters-Living on the Edge**

3 cr.

Study of various environmental hazards, their causes, impacts on humans, and mitigations.

**Prerequisites:** none.**Course Rules:** CGS GEO 170 and CGS GLG 170 are jointly offered and count as repeats of one another.**General Education Requirements:** NS**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 250 Global Sustainability & Climate Resilience**

3 cr.

An interdisciplinary exploration of current sustainability issues and solutions, taking both global and local perspectives through the lenses of the geosciences and other fields in the natural sciences.

**Prerequisites:** none.**Course Rules:** CGS GEO 250 and CGS GLG 250 are jointly offered and count as repeats of one another. Counts as a repeat of CGS INT 290 and CGS INT 283 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 270 Global Climate Change: Past, Present, and Future**

3 cr.

Examines contemporary scientific thought on the cycles of climate change, past climate conditions, current state of the atmosphere, and predictions for future change/adaptation strategies.

**Prerequisites:** none.**Course Rules:** CGS GEO 270 and CGS GLG 270 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 299 Independent Study**

1-3 cr.

Individual study under the supervision of an instructor. May be taken more than once for credit if topics are different.

**Prerequisites:** consent of instructor.**Course Rules:** Repeatable.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GEO 350 Environmental Conservation**

3 cr.

Study of the human use, conservation, and management of the Earth's resources; ecosystems; human interactions with the environment; human population growth; impact of technology on the environment; and practical solutions to environmental problems. Field trips may be required. Prereq: One semester of college work or consent of instructor. GEO 350 meets DPI requirements for environmental education at some UW baccalaureate institutions.

**Prerequisites:** none.**General Education Requirements:** SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Geology (CGS GLG)

**CGS GLG 100 Introduction to Geology**

3 cr.

A brief study of minerals, rocks, fossils, geologic maps, and the processes creating and modifying the surface and subsurface features of earth. Field trips may be required.

**Prerequisites:** none.**Course Rules:** May not be taken for credit by students who have had CGS GLG 101.**General Education Requirements:** NS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS GLG 101 Physical Geology**

4-5 cr.

Study of the physical nature of Earth: the processes in operation above, on and beneath the surface that continue to shape its physical evolution e.g. volcanism, plate tectonics, faulting and earthquakes, glaciation, rivers; the origin and nature of common minerals and rocks and their distribution in the world; landscapes and their origins e.g. mountain ranges, glacial forms, river valleys, etc.. Lab work includes the study of rocks and minerals, the interpretation of geological and topographic maps and aerial photographs, along with data, map and chart analysis. Two or four hours of lab per week depending on the credit. Field trips may be required.

**Prerequisites:** none.**Course Rules:** May not be taken for credit by students who have had CGS GLG 100.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GLG 102 Historical Geology**

4-5 cr.

Study of the history of the Earth, beginning with its place in the solar system. An introduction to common rocks and minerals, to geological principles and reasoning, and to concepts of geologic time. Study of how the physical geography of Earth has changed through time and how the changes in the rock record tell of seas, mountain ranges, deserts, and ice ages through geologic time. Study of the fossil record and how life on Earth has changed to cope with the varying physical environments of Earth. Two or four hours of lab per week depending on the credit. Field trips may be required.

**Prerequisites:** none.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GLG 135 Introduction to Environmental Geology**

3 cr.

The physical environment and our interaction with it. Emphasis on Earth processes affecting humans, such as flooding, erosion, groundwater, landslides, and earthquakes. The impact of humans upon the environment along with the application of the science of geology to these impacts. Field trips may be required.

**Prerequisites:** none.**Course Rules:** May not be taken for credit by students who have had GLG 169.**General Education Requirements:** NS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GLG 169 Environmental Geology**

4-5 cr.

The physical environment and our interaction with it. Emphasis on earth processes affecting humans, such as flooding, erosion, groundwater, landslides and earthquakes. The impact of humans upon the environment along with the application of the science of geology to these impacts. Air, water and soil pollution studied from a physical-chemical standpoint. The depletion of energy and mineral resources and the need for humans to design with nature.

**Prerequisites:** none.**Course Rules:** Two or four hours of lab per week depending on the credit. Field trips may be required. May not be taken for credit by students who have had GLG 135.**General Education Requirements:** NS+**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GLG 170 Disasters-Living on the Edge**

3 cr.

Study of various environmental hazards, their causes, impacts on humans, and mitigations.

**Prerequisites:** none.**Course Rules:** CGS GEO 170 and CGS GLG 170 are jointly offered and count as repeats of one another.**General Education Requirements:** NS**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GLG 250 Global Sustainability & Climate Resilience**

3 cr.

An interdisciplinary exploration of current sustainability issues and solutions, taking both global and local perspectives through the lenses of the geosciences and other fields in the natural sciences.

**Prerequisites:** none.**Course Rules:** CGS GEO 250 and CGS GLG 250 are jointly offered and count as repeats of one another. Counts as a repeat of CGS INT 290 and CGS INT 283 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS GLG 270 Global Climate Change: Past, Present, and Future**

3 cr.

Examines contemporary scientific thought on the cycles of climate change, past climate conditions, current state of the atmosphere, and predictions for future change/adaptation strategies.

**Prerequisites:** none.**Course Rules:** CGS GEO 270 and CGS GLG 270 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Health and Exercise Sciences (CGS HES)

**CGS HES 5 Team Sports: Basketball**

1 cr.

Team Sports courses are designed to help students develop skills, strategies, and sporting behavior. This course will develop skills, teach rules, and prepare students for the recreational enjoyment of the game of basketball.

**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HES 15 Lifetime Activity: Tai Chi**

1 cr.

Lifetime activity courses are designed to provide a foundation for a healthy, physically active lifestyle. This course will teach and develop the basic fundamentals and movements of tai chi.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 19 Lifetime Activity: Weight Training**

1 cr.

Lifetime activity courses are designed to provide a foundation for a healthy, physically active lifestyle. This course will teach basic concepts of weight training, focusing on muscular strength, endurance, or general fitness.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 37 Lifetime Activity: Martial Arts**

1 cr.

Lifetime activity courses are designed to provide a foundation for a healthy, physically active lifestyle. This course will teach and develop the basic movements and techniques involved in self-defense.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 46 Lifetime Activity: Yoga**

1 cr.

Teach and develop the basic movements and postures involved in yoga. Different styles of yoga will be explored.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 47 Intermediate Yoga**

1 cr.

Basic Physical Activity Course Open to All Students. These courses develop skills, teach rules, and prepare students for recreational enjoyment. Prereq: CGS HES 46 or consent of instructor.

**General Education Requirements:** AP**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 62 Intermediate Tai Chi**

1 cr.

**Prerequisites:** Successful completion of CGS PED 015 Introduction to Tai Chi, or consent of instructor.

**General Education Requirements:** AP**Last Taught:** Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 101 Introduction to Public Health**

3 cr.

Introduction to history, science and philosophy of Public Health including scientific research, policy development and health education.

**Prerequisites:** none.**Course Rules:** PH 101 and CGS HES 101 are jointly offered; they count as repeats of one another.**General Education Requirements:** SS**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 102 Healthcare Delivery in the United States**

3 cr.

An introduction to healthcare delivery focusing on consumers, providers, organization, financing, quality and utilization of services, health planning, and political and governmental impacts.

**Prerequisites:** none.**Course Rules:** CGS HES 102 and HS 102 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 103 Life Balance: An Understanding of Leisure**

3 cr.

Introductory survey of the historical, philosophical, sociological, developmental, and cultural aspects of recreation, leisure, and play.

**Prerequisites:** none.**Course Rules:** CGS HES 103 and THERREC 103 are jointly offered and count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 105 Survey of the Health Professions**

3 cr.

An introduction to health professions, professional pathways, their work settings, and roles on the healthcare team. Other topics include: patient-professional communication, patient characteristics, medical terminology.

**Prerequisites:** none.**Course Rules:** CGS HES 105 and HS 105 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 124 Alcohol and Other Drugs: Awareness, Alternatives**

1 cr.

Content includes an overview of different classes and types of psychotropic drugs including alcohol, prescription drugs and illegal drugs and the risks associated with abuse of these substances. The impact of substance use/abuse on physical and emotional health, relationships, and productivity will also be discussed.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HES 127 Fitness for Life**

3 cr.

A contemporary examination of the effects of lifestyle, wellness, and health promotion on the individual. Instruction in procedures for self-evaluation as well as individualization of exercise prescription for the development of fitness.

**Prerequisites:** none.

**Course Rules:** Participation in a planned program of aerobic activity and resistance training is required.

**General Education Requirements:** AP

**Last Taught:** Fall 2020, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HES 194 Intercollegiate Athletics - Tennis**

1 cr.

Designed for students who participate in intercollegiate athletics, to develop skills and behaviors related to game strategies, sportsmanship, leadership, and team-building. Active membership on the intercollegiate team through the end of the season/semester is required.

**Prerequisites:** none.

**Course Rules:** A student may take only one intercollegiate activity course per semester.

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HES 204 Introduction to Physical Education, Exercise Science and Sport**

3 cr.

An overview of physical education, exercise science and sport with a focus on the specialization areas and vocational opportunities offered in the various fields. Personal and professional qualifications in the fields of physical education and exercise science and sport will be examined, with an emphasis on establishing the role of physical education in society.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HES 205 Athletic Injuries**

2-3 cr.

This course will explore the assessment, treatment and prevention of common athletic injuries. The relationship of an athletic trainer to the field of sports medicine is explored. Practical taping techniques will be completed during class time. Course content includes anatomy/physiology and the principles of biomechanics. Students may enroll as either a 2-credit or 3-credit option.

**Prerequisites:** none.

**Course Rules:** Students enrolling in the 3-credit option are required to complete 15 hours field experience with a licensed athletic trainer.

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HES 206 Personal Health and Wellness**

3 cr.

This course will provide an in depth examination of the various aspects of health and wellness. Students will survey various aspects of health and wellness which affect both the individual and the community. Foundations of personal and community health and wellness and the dynamic interaction between psychological health, stress, nutrition, physical activity, weight management, drug use and abuse, healthy relationships, sexuality, infectious disease, and chronic disease throughout the lifespan will be integrated throughout the course.

**Prerequisites:** none.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HES 209 Nutrition and Weight Management**

3 cr.

Through the lens of the natural sciences, this course will examine the basic principles of nutrition, digestion, and metabolism. Students will interpret and analyze the effects of these principles on one's diet, weight, fitness level, and overall health. Students will reflect upon the conclusions drawn from the data, with the goal of integrating healthy behaviors into their personal lifestyle.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** Spring 2021, UWinterIM 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HES 209X Nutrition and Weight Management**

3 cr.

Through the lens of the natural sciences, this course will examine the basic principles of nutrition, digestion, and metabolism. Students will interpret and analyze the effects of these principles on one's diet, weight, fitness level, and overall health. Students will reflect upon the conclusions drawn from the data, with the goal of integrating healthy behaviors into their personal lifestyle.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** Spring 2021, UWinterIM 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HES 210 Theory of Coaching**

3 cr.

A thorough examination of the Theory and methodology of coaching both team and individual sports. Coaching psychology, philosophy, administrative responsibilities, skill assessment, practice/game organization, rules, fundamentals, and play of various sports will be explored through lecture, lab, and field experience. Students will execute analytical, practical, or creative tasks in relationship to complete assignments/projects. Part of their process will allow them to synthesize existing ideas or expertise in original ways.

**Prerequisites:** none.

**General Education Requirements:** AP

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HES 213 First Aid for Emergencies**

3 cr.

This course examines the causes, prevention and care of first aid emergencies. Procedures in CPR/AED and first aid will prepare the student for emergencies likely to be encountered in daily living. American Red Cross or American Heart Association in CPR/AED and First Aid certification can be earned.

**Prerequisites:** none.

**General Education Requirements:** AP

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CGS HES 217 Social Aspects of Sport**

3 cr.

A course focusing on sport institutions as social organizations and how they function within a culture. Emphasis is placed on group structure and membership, group pressure, socialization, stratification, and deviance as they apply to the sports' setting. Selected interdisciplinary topics demonstrating the connections between sport and: media, business/economy, gender, race/ethnicity, social class, politics, and religion.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 224 Drugs, Behavior and Society**

3 cr.

The course will explore alcohol and other drug use/abuse and its impact on human behavior and society. Information will be presented in a variety of contexts including pharmacological, behavioral historical, social, legal and clinical.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 225 Advanced Concepts of Personal Training**

3 cr.

This course is designed to prepare and qualify students to work as personal trainers. The course bridges the gap between exercise science related course work and practical skills of personal training. This professional development course prepares students for the opportunity to pursue certification as a personal trainer. Course content includes anatomy/physiology, biomechanics, nutrition, components of fitness and fitness assessments, and functional training concepts.

**Prerequisites:** none.**General Education Requirements:** NS**Last Taught:** Spring 2023, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HES 299 Independent Study in Physical Education**

1-3 cr.

Independent study in Physical Education.

**Prerequisites:** program must be approved by the department chair.**Course Rules:** Repeatable.**Last Taught:** Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS History (CGS HIS)

**CGS HIS 100 First Year Seminar in History: Selected Topics**

3 cr.

In this seminar style course designed for first semester freshmen, students will learn about a historical topic in depth and from different angles while also focusing on critical thinking, analysis of various types of sources, historical interpretation, and debates among historians. Students will also be introduced to college level expectations and study habits.

**Prerequisites:** none.**General Education Requirements:** SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 101 History of the United States: From the Era of the Columbian Exchange to the Era of the Civil War**

3 cr.

A survey of American political, economic, social, and intellectual history from the Age of European Exploration and the period of colonization to the era of the American Civil War. As an Ethnic Studies ES course, this course thoroughly integrates the experiences of African Americans, Native Americans, Hispanics, and/or Asian Americans into US history in a manner that fosters understanding and appreciation of the perspectives and experiences of at least two of these groups as well as their contributions to, and interactions within, American society.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 102 History of the United States: From the Era of the Civil War to the Present**

3 cr.

A survey of American political, economic, social, and intellectual history from the era of the Civil War to the Present, including the experiences of African Americans, Native Americans, Hispanics, and/or Asian Americans in a manner that fosters understanding and appreciation of the perspectives and experiences of at least two of these groups as well as their contributions to, and interactions within, American society.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 102X History of the United States: From the Era of the Civil War to the Present**

3 cr.

A survey of American political, economic, social, and intellectual history from the era of the Civil War to the Present, including the experiences of African Americans, Native Americans, Hispanics, and/or Asian Americans in a manner that fosters understanding and appreciation of the perspectives and experiences of at least two of these groups as well as their contributions to, and interactions within, American society.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 105 History of Western Civilization from Ancient Times to the Era of the Renaissance**

3-4 cr.

Survey of Western Civilization from ancient times through the Renaissance, emphasizing the distinctive features of Western culture, political development, economic development, and the contributions made by non-Western people.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Summer 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HIS 106 History of Western Civilization from the Era of the Renaissance to Contemporary Times**

3-4 cr.

Survey of Western Civilization from the Renaissance to contemporary times, emphasizing the further development of Western culture, political institutions, and economic institutions, including reference to the interaction among the peoples of the modern world.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 111 Ancient History**

3 cr.

Survey of the history of civilization from the beginnings in Mesopotamia and Egypt through Classical Greece with emphasis on institutional and social development.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Summer 2022, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 112 Ancient History**

3 cr.

Survey of the history of civilization from Alexander the Great through the fall of the Roman Empire with emphasis on institutional and social development.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 127 The World in the Twentieth Century**

3 cr.

Survey of the major trends in Europe, Asia, Africa, and the Americas since 1900; the two world wars; the social and political revolutions of our time; Fascism and Communism; and the new states of Africa and Asia.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 161 World History to 1500**

3-4 cr.

A topical approach to the history of premodern humankind. Special attention will be given to the emergence, development, and interaction of civilizations in Asia, Africa, Europe, and the Americas.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 162 World History Since 1500**

3-4 cr.

A topical history of global humankind with emphasis on the rise of the West to world dominance and the various ways in which the peoples of Africa, Asia, and Latin America have responded to the Western challenge.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 204 Introduction to Public History**

3 cr.

An introduction to the field of public history with topics for classroom discussion including the concept of public memory, historic preservation theory and practice, creation of museum exhibits, and career opportunities in the field of history outside of education. Students will apply knowledge gained from the course to evaluate historic exhibits and gain field work by undertaking their own exhibit, archival or preservation project.

**Prerequisites:** None.**General Education Requirements:** AP**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 208 The Film as Social History**

3 cr.

Feature and documentary films produced in a particular historical period or on a specific historical topic. Through viewing selected films, the student will gain a deeper understanding of the motion picture's significance as an historical document, as well as its function as a propaganda device. The course will relate the thematic content of the selected films to the specific historical context in which they were produced and consumed.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 213 The United States and Latin America's Cold War**

3 cr.

Recent development of Hispanic and Portuguese America, emphasizing the evolution of independent states.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 218 The United States and Vietnam**

3 cr.

An investigation of the war in Southeast Asia, 1945-1975, focusing on these topics: Southeast Asian historical context, French colonialism, Southeast Asian cultural and political contexts, Vietnamese nationalism, the role of the Cold War, American involvement, the debate on American policy, experiences of US soldiers and South East Asian participants, American withdrawal, conclusion of the fighting, and long-term effects in the United States, in South East Asia and globally.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 254 American Foreign Relations, 1763 to the Present**

3 cr.

America's interactions with the world, emphasizing the global and domestic economic, political and ideological elements influencing policy.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS HIS 255 Proseminar in History**

3 cr.

This course will explore a historical topic through readings, discussion, and written assignments.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 256 Topics in History:**

1-3 cr.

This course will explore in depth an historical topic through lectures, discussions, readings, and written assignments.

**Prerequisites:** none.**Last Taught:** Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 258 The Holocaust: Politics of Peace, Nationalism, and War**

3 cr.

Historical background and current scholarly debate about the best documented genocide in recent history. Students will explore a variety of sources produced during and after the period, including films, posters and literature.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Summer 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 270 American Business History**

3 cr.

The role of business in American society from colonial times to the present. Origins of American capitalism, appearance of corporate organization, work patterns, changing business ethics and their legal environment, government regulation, and international trade.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 272 History and Culture of the Sciences**

3 cr.

This course will examine, in a historical context, how science has been constructed and how it has interacted with other aspects of society, such as politics, religion, culture, and economics. These themes will be addressed by closely studying two transformations in scientific and human thought: first, the shift from an Earth-centered to a sun-centered universe, and second, the development of the theory of Evolution by natural selection. Finally, we will briefly consider the emergence of new major scientific and cultural transitions which are now occurring.

**Prerequisites:** none.**General Education Requirements:** HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 277 Indians in American History**

3 cr.

This course surveys U.S. history with emphasis on contact in the age of exploration, interactions over time between Europeans and Native Americans, and adaptations and conflicts that emerged. The course will approach this from social, political, and economic perspectives from the colonial period to the present. This course focuses on understanding the perspectives of Native Americans.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 283 War and American Society**

3 cr.

An investigation of the impact of wars on American society. Wars from the earliest European settlement through the wars of the early 21st century may be included. The home front will be emphasized, with attention to wartime politics and economy, civil liberties, the experience of non-combatants, and the larger social effects of war.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 290 History of Wisconsin**

3 cr.

History of Wisconsin from the beginning of the historical period to the present, with emphasis on the economic and social aspects of Wisconsin history since 1815.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS HIS 299 Independent Studies**

1-3 cr.

Extensive reading for the purpose of surveying the literature on a particular historical subject, possibly including a research project, under the personal supervision of the instructor.

**Prerequisites:** consent of instructor.

**Course Rules:** Repeatable. Subject matter is open, to be determined by the student and instructor. Students will be encouraged to use off-campus resources when available.

**Last Taught:** Spring 2022, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Information Studies (CGS IST)

**CGS IST 110 Introduction to Information Science and Technology**

3 cr.

Introduces basic issues in information science, including the nature of information, information policy, knowledge organization, information services, and the relationships between information technologies and society.

**Prerequisites:** none.

**Course Rules:** CGS IST 110 and INFOST 110 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS IST 120 Information Technology Ethics**

3 cr.

Comprehensive overview of the current ethical issues in information and technology use.

**Prerequisites:** none.

**Course Rules:** CGS IST 120 and INFOST 120 are jointly offered and count as repeats of one another.

**General Education Requirements:** HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS IST 240 Web Design I**

3 cr.

Uses popular authoring tools to cover the basics of organizing information.

**Prerequisites:** none.

**Course Rules:** CGS IST 240 and INFOST 240 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Interdisciplinary Studies (CGS INT)

**CGS INT 280 Interdisciplinary Studies: Culture Clashes and the Modern World**

3 cr.

This course uses history and anthropology to explore what happens when people of very different cultures and regions of the world collide, through the lenses of Anthropology and History.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of CGS INT 290 with similar topic.

**General Education Requirements:** IS, SS

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS INT 281 Interdisciplinary Studies: Deviant Minds**

3 cr.

Approaches the concept of deviance from both sociological and psychological perspectives, including the 'deviant' (rule-breaking) categories of mental illness and criminal behavior.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of CGS INT 290 with similar topic.

**General Education Requirements:** IS, SS

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS INT 281X Interdisciplinary Studies: Deviant Minds**

3 cr.

Approaches the concept of deviance from both sociological and psychological perspectives, including the 'deviant' (rule-breaking) categories of mental illness and criminal behavior.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of CGS INT 290 with similar topic.

**General Education Requirements:** IS, SS

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS INT 282 Interdisciplinary Studies: Rich Man, Poor Man**

3 cr.

The concept of stratification within the United States from both sociological and psychological perspectives, focusing on social class, race, and gender and their intersections.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of CGS INT 290 with similar topic.

**General Education Requirements:** CD, IS, SS

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS INT 283 Interdisciplinary Studies: Local Applications of Global Sustainability**

3 cr.

An interdisciplinary exploration of current sustainability issues, taking both global and local perspectives through the lenses of geology and other fields in the natural sciences.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of CGS INT 290 with similar topic.

**General Education Requirements:** IS, NS

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS INT 284 Interdisciplinary Studies: Understanding Our Environment**

3 cr.

Observation of our environment with the eyes of many disciplines in order better to understand and appreciate it, what it offers us, and what responsibilities we have in relation to it.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of CGS INT 290 with similar topic.

**General Education Requirements:** HU, IS

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS INT 285 Interdisciplinary Studies: Superheroes and Mythology**

3 cr.

Explores the social and cultural importance of the superhero as well as the semiotics of mythical language, the relation between mythical representation and philosophy, and the role mythological symbolism plays in society.

**Prerequisites:** none.

**Course Rules:** Not open to students with credit in CGS CTA 298 or CGS PHI 291 with similar topic.

**General Education Requirements:** HU, IS

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS INT 286 Interdisciplinary Studies: Philosophy Goes to the Movies**

3 cr.

Cultures around us; finds the traditional areas of philosophic concern, now packaged in new ways, and examines the content, packaging, and direction of our popular culture.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of CGS CTA 218 and CGS PHI 253.

**General Education Requirements:** IS

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS INT 290 Special Topics in Interdisciplinary Studies**

1-5 cr.

Helps students learn to integrate knowledge from across the curriculum. Investigation of multiple dimensions of the given subject by applying content, methods and assumptions of 2+ disciplines as presented by instructors from those disciplines.

**Prerequisites:** none.

**Course Rules:** Repeatable with change in topic to 9 cr max.

**General Education Requirements:** IS

**Last Taught:** Summer 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Learning Resources (CGS LEA)

### CGS LEA 101 Academic Reading

0 cr.

Introduction to independent academic reading at a college level. Strategies for increasing comprehension, varying reading rate, and developing critical reading skills.

**Prerequisites:** none.

**Course Rules:** Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS LEA 102 Learning Skills

0 cr.

Workshop or discussion course that helps students develop college-level learning skills.

**Prerequisites:** none.

**Course Rules:** Fee for 1 cr assessed; credit counts toward credit load for Financial Aid and enrollment verification only.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS LEA 103 College Reading and Study Strategies

0 cr.

A reading-intensive course that helps students develop effective strategies for reading textbooks and nonfiction texts, taking notes, studying for exams, and taking tests.

**Prerequisites:** none.

**Course Rules:** Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS LEA 110 TRIO Writing Studio

0 cr.

Workshop or tutorial that provides individualized and small group instruction to help students develop college-level reading and writing skills.

**Prerequisites:** none.

**Course Rules:** Taken concurrently with a composition course or other writing-intensive class. Fee for 1 cr assessed; credit counts toward credit load for Financial Aid and enrollment verification only. May be retaken up to 6 times.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS LEA 111 TRIO Academic Learning

0 cr.

An introduction to independent academic reading at a college level emphasizing strategies for increasing comprehension, varying reading rate, and developing critical reading skills.

**Prerequisites:** none.

**Course Rules:** Fee for 1 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Focuses on assignments and activities that help students achieve the learning outcomes for first-year composition and other difficult reading-intensive courses that require students to write about nonfiction reading. May be retaken up to 6 times.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS LEA 112 TRIO Learning Skills

0 cr.

A workshop or discussion course that helps students develop college-level learning skills. This course is offered through a campus TRIO program.

**Prerequisites:** none.

**Course Rules:** Fee for 2 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS LEA 113 TRIO College Reading and Studying Strategies

0 cr.

Reading-intensive course that helps students develop effective strategies for reading textbooks and nonfiction texts, taking notes, studying for exams, and taking tests.

**Prerequisites:** none.

**Course Rules:** This course is offered by a campus TRIO program. Fee for 1 cr assessed; credit counts toward credit load for Financial Aid and enrollment verification only.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Lecture Forum (CGS LEC)

### CGS LEC 100 First-Year Seminar:

1-3 cr.

Helps students make the transition to college by promoting active learning, student involvement and responsibility in the learning process. Also develops life management skills, and engages students on campus.

**Prerequisites:** none.

**Course Rules:** Each CGS LEC 100 section incorporates a specific subject of inquiry. Consult the campus course schedule for additional information. Repeatable to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS LEC 101 First-Year Seminar: Academic Reading

3 cr.

Introduction to college learning while also focusing on independent academic reading at a college level.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS LEC 105 Finding Your Pathway

3 cr.

Designed to help students successfully transition to college, explore career options, set meaningful academic and career goals, develop essential skills such as information literacy and critical thinking skills, and engage in academic behaviors and study strategies that will help them meet with success.

**Prerequisites:** CGS ENG 98 or placement into CGS ENG 101 or higher.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS LEC 110 Introduction to Experiential Learning**

1 cr.

Introduction to college-level experiential learning, including prior learning, service-learning, and internships. How to document experiential learning with an electronic portfolio.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 200 Sophomore Seminar**

1-3 cr.

Enhances the sophomore experience and positions students for success as they prepare to complete bachelor-degree studies.

**Prerequisites:** none.**Last Taught:** Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 201 Introduction to Service Learning**

3 cr.

Students will learn about how community engagement has instituted change in the past while also giving you first-hand experience to be an agent of change yourself doing important work needed by local agencies.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 202 Sophomore Seminar Tutor Training**

1 cr.

This course prepares students for the role of peer tutor. Topics include active and collaborative learning, critical thinking and problem solving, interpersonal communication, and assisting peers with how to effectively and efficiently learn subject-related content.

**Prerequisites:** Open to current peer tutors at the Waukesha Academic Success Center and Washington County Learning Commons. It is required of all students tutoring in the math and course-specific/subject area tutoring programs. Continuing tutors must pass the course with a C or higher to stay employed as a tutor.

**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 203 Tutoring Seminar: Learning Center Research and Practice**

1-3 cr.

Students will examine the ways individualized peer instruction can be beneficial and a range of strategies for offering such instruction, and will reflect on peer observations of their own tutoring.

**Prerequisites:** CGS LEC 202(P) or CGS ENG 291(P).

**Course Rules:** Open to current peer tutors at the Waukesha Academic Success Center or the Washington County Learning Commons who have successfully completed one credit of CGS LEC 202 or CGS ENG 291.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 294 General Internship**

1-3 cr.

Off- or on-campus experiential learning activities designed to provide students with the opportunity to make connections between their coursework and a professional work environment.

**Prerequisites:** a minimum of 12 completed course credits and at least 2.5 GPA at date of enrollment.

**Course Rules:** Repeatable to 6 cr max.**Last Taught:** Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 305 (U)Applied Project Management**

1 cr.

Development and application of project management skills using project management software. Assigned projects will require students to apply project management, leadership, and teamwork skills in a practical context. This course employs the Project Management Body of Knowledge PMBOK from the Project Management Institute PMI. PMBOK has become the basis for the Project Management Professional PMP certification exam.

**Prerequisites:** junior level status and CGS MAT 110 or equivalent.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 390 Creativity and Problem-Solving**

3 cr.

Interdisciplinary exploration of creativity and problem solving processes, with emphasis placed on active learning through use of case studies. This course is the Cognitive Skills core course for the BAAS degree.

**Prerequisites:** junior standing or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 391 The World in the 21st Century**

3 cr.

Surveys the interconnected world of the 21st century; historical roots of present day globalism with a focus on unifying themes. Key pillars of globalism.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** This course is the Global Studies core course for the BAAS degree.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 394 Internship Seminar**

2-3 cr.

Educational experience that provides students with an opportunity to apply disciplinary learning to service within the public and private sector. Offers students a chance to expand professional skills while earning academic credit by providing first-hand experience in a particular field of interest.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** 1-credit for the internship seminar; 2-credits for the hours of internship service.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 473 Introduction to the BAAS Degree & the Capstone Project**

1 cr.

Introduction to degree completion program and degree requirements. Participation in diagnostic tools to explore preferences for/develop an experiential service project, develop a profile of strengths/talents and plan for attaining the degree.

**Prerequisites:** none.

**Course Rules:** This course is the first in the three-course capstone sequence.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS LEC 483 Senior Capstone Seminar**

3 cr.

Offers a culminating learning experience for students nearing the completion of the BAAS degree. Equips students with the learning capacities and competencies necessary for continued career, civic, and personal growth.

**Prerequisites:** senior level status or consent of instructor;

CGS LEC 473(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS LEC 493 Senior Capstone Project**

2 cr.

This course is designed to offer a culminating learning experience for students nearing the completion of the Bachelor of Applied Arts and Sciences degree. The fundamental aim of the course is to equip students with the learning capacities and competencies necessary for continued career, civic, and personal growth. You will focus on executing, completing, and reviewing the capstone project. The final capstone project, its outcomes and implications, will be shared in a campus or community presentation.

**Prerequisites:** Senior level status or consent of instructor; CGS LEC 483.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Mathematics (CGS MAT)

**CGS MAT 75 Math Success Strategies**

0 cr.

Highly interactive format providing mathematics instruction and instilling study skills and strategies for succeeding in mathematics courses.

**Prerequisites:** none.

**Course Rules:** Previously CGS MAT 99. Fee for 3 credits assessed; 3 credits count toward credit load for Financial Aid and enrollment verification only. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 75X Math Success Strategies**

0 cr.

Highly interactive format providing mathematics instruction and instilling study skills and strategies for succeeding in mathematics courses.

**Prerequisites:** none.

**Course Rules:** Previously CGS MAT 99. Fee for 3 credits assessed; 3 credits count toward credit load for Financial Aid and enrollment verification only. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 81 Topics in Geometry**

0 cr.

Designed for students who have not had high school geometry. Includes methods of proof, properties of simple plane figures, congruence, and similarity.

**Prerequisites:** none.

**Course Rules:** Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 88 Math Support for Math Literacy Courses**

0 cr.

A supplementary support course for students who are enrolled in CGS MAT 092/102 or CGS MAT 103. Students will be introduced to math specific study skills and will receive supplemental instruction in their mathematics coursework.

**Prerequisites:** none.

**Course Rules:** Fee for 1 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Satisfactory/Unsatisfactory only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 89 Math Support for Algebraic Math Courses**

0 cr.

A supplementary support course for students enrolled in CGS MAT 75, CGS MAT 98/108, or CGS MAT 105. Students will be introduced to math-specific study skills and will receive supplemental instruction in their mathematics coursework.

**Prerequisites:** none.

**Course Rules:** Fee for 1 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Satisfactory/Unsatisfactory only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 91 Elementary Algebra**

0 cr.

Intended for students with little or no previous algebra. Topics include the real number system and operations with real numbers and algebraic expressions, linear equations and inequalities, polynomials, factoring, and introduction to quadratic equations.

**Prerequisites:** none.

**Course Rules:** Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.

**Last Taught:** Summer 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 92 Mathematical Literacy for College Students I**

0 cr.

Introduction to numeracy, proportional reasoning, algebraic reasoning, and functions. Emphasis on developing conceptual and procedural tools that support the use of key mathematical concepts in context.

**Prerequisites:** none.

**Course Rules:** Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Students must enroll in corresponding section of CGS MAT 102. Not recommended for students planning to take Calculus. Students registering after classes have begun will have missed class sessions counted against their attendance for this course.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 98 Algebraic Literacy I**

0 cr.

Arithmetic number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring; modeling; coordinate geometry; linear systems; quadratic equations.

**Prerequisites:** Math Placement Level 10.

**Course Rules:** Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Students must enroll in corresponding section of CGS MAT 108. Students registering after classes have begun will have missed class sessions counted against their attendance for this course.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 100 Supplemental Math**

1-2 cr.

Development of foundational skills and concepts to allow concurrent enrollment in certain credit-bearing mathematics courses in place of prerequisite enrollment.

**Prerequisites:** consent of department.

**Course Rules:** Repeatable to 2 cr max with change in topic. Specific topic and additional prerequisites announced in schedule of classes each time course is offered.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 100A Beginning and Intermediate Algebra**

0 cr.

UW COLLEGES COURSES ONLINE ONLY. Arithmetic operations, equations/inequalities involving the algebraic objects are solved including polynomial equations through the quadratic formula. Linear/quadratic, rational/radical equations, algebraic/graphical representation of lines and interpreting graphical representation of functions.

**Prerequisites:** grade of C or better in CGS MAT 090 or based on placement test score.

**Course Rules:** Fee for 1 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 100B Beginning and Intermediate Algebra**

3 cr.

UW COLLEGES COURSES ONLINE ONLY. Arithmetic operations, equations/inequalities involving the algebraic objects are solved including polynomial equations through the quadratic formula. Linear/quadratic, rational/radical equations, algebraic/graphical representation of lines and interpreting graphical representation of functions.

**Prerequisites:** grade of C or better in CGS MAT 090 or based on placement test score.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 101 Introduction to College Algebra**

3-4 cr.

UW COLLEGE COURSES ONLINE AND ASSOCIATE FLEX PROGRAM ONLY. Algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations, and inequalities. Introduction to functions, their graphs, and analytic geometry.

**Prerequisites:** grade of C or better in Elementary Algebra or CGS MAT 100A or placement based on placement test score.

**Last Taught:** Summer 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 101X Introduction to College Algebra**

3-4 cr.

UW COLLEGE COURSES ONLINE AND ASSOCIATE FLEX PROGRAM ONLY. Algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations, and inequalities. Introduction to functions, their graphs, and analytic geometry.

**Prerequisites:** grade of C or better in Elementary Algebra or CGS MAT 100A or placement based on placement test score.

**Last Taught:** Summer 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 102 Mathematical Literacy for College Students II**

3 cr.

Continuation of CGS MAT 92, with an integrated approach to numeracy, proportional reasoning, algebraic reasoning, and functions.

**Prerequisites:** Math Placement Level 10 or concurrent enrollment in CGS MAT 92(P).

**Course Rules:** Students with a Math Placement Level of less than 10 must also enroll in the corresponding section of CGS MAT 92.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 102X Mathematical Literacy for College Students II**

3 cr.

Continuation of CGS MAT 92, with an integrated approach to numeracy, proportional reasoning, algebraic reasoning, and functions.

**Prerequisites:** Math Placement Level 10 or concurrent enrollment in CGS MAT 92(P).

**Course Rules:** Students with a Math Placement Level of less than 10 must also enroll in the corresponding section of CGS MAT 92.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 103 Contemporary Applications of Mathematics**

3 cr.

Course focuses on analytic reasoning and quantitative problem solving. Topics include construction and interpretation of graphs, functional relationships, descriptive statistics, geometry and spatial visualization, math of finance, exponential growth, voting theory, and basic probability.

**Prerequisites:** Math Placement Level 10.

**Course Rules:** Not recommended for students planning to take Calculus.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 105 Introduction to College Algebra**

3 cr.

Algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations, and inequalities. Introduction to functions, their graphs, and analytic geometry.

**Prerequisites:** Math Placement Level 20 or grade of C or better in CGS MAT 98(P).

**Course Rules:** Counts as repeat of CGS MAT 108.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 105X Introduction to College Algebra**

3 cr.

Algebraic techniques with polynomials, fractional expressions, exponents and radicals, linear and quadratic equations, and inequalities. Introduction to functions, their graphs, and analytic geometry.

**Prerequisites:** Math Placement Level 20 or grade of C or better in CGS MAT 98(P).

**Course Rules:** Counts as repeat of CGS MAT 108.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CGS MAT 108 Algebraic Literacy II**

3 cr.

Continuation of CGS MAT 98 in polynomials, equations, and inequalities; exponential, logarithmic, and periodic functions; rational expressions and exponents; and systems of linear equations.

**Prerequisites:** Math placement Level 10.

**Course Rules:** Students must register in the corresponding section of CGS MAT 98. Counts as repeat of CGS MAT 105.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 110 College Algebra**

3 cr.

Definition of function and sequence; linear and nonlinear functions and graphs including logarithmic and exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections and optional topics such as mathematical induction, matrix solution of linear systems and Cramer's rule.

**Prerequisites:** A grade of C or better in CGS MAT 103B or CGS MAT 101 or placement based on placement test score.

**Course Rules:** Equivalent to MATH 116.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 110X College Algebra**

3 cr.

Definition of function and sequence; linear and nonlinear functions and graphs including logarithmic and exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections and optional topics such as mathematical induction, matrix solution of linear systems and Cramer's rule.

**Prerequisites:** A grade of C or better in CGS MAT 103B or CGS MAT 101 or placement based on placement test score.

**Course Rules:** Equivalent to MATH 116.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 113 Trigonometry**

2 cr.

UW COLLEGE COURSES ONLINE ONLY. Trigonometric functions, their basic properties and graphs, identities, inverse trigonometric functions, solving trigonometric equations, solutions of triangles.

**Prerequisites:** a grade of C or better in CGS MAT 110(P); or concurrent registration in CGS MAT 110(C); or placement based on placement test score.

**Last Taught:** Summer 2020, Spring 2020, UWinteriM 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 115 Precalculus**

4 cr.

Essential topics from college algebra and trigonometry for students intending to enroll in calculus.

**Prerequisites:** Math Placement Level 30 or grade of C or better in CGS MAT 105(P), CGS MAT 108(P), or CGS MAT 116(P).

**Course Rules:** Repeats two credits of CGS MAT 116 and two credits of CGS MAT 117.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 116 College Algebra**

3 cr.

Definition of function and sequence; linear and nonlinear functions and graphs including logarithmic and exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections and optional topics.

**Prerequisites:** Math Placement Level 20 or grade of C or better in CGS MAT 94(P), CGS MAT 95(P), or CGS MAT 98(P).

**Course Rules:** Two credits may be used to repeat two credits of CGS MAT 115.

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 116X College Algebra**

3 cr.

Definition of function and sequence; linear and nonlinear functions and graphs including logarithmic and exponential functions; systems of linear equations and Gauss-Jordan method; theory of polynomial equations; conic sections and optional topics.

**Prerequisites:** Math Placement Level 20 or grade of C or better in CGS MAT 94(P), CGS MAT 95(P), or CGS MAT 98(P).

**Course Rules:** Two credits may be used to repeat two credits of CGS MAT 115.

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 117 Trigonometry**

2 cr.

Trigonometric functions; graphs, identities, equations, inequalities; inverse trigonometric functions; solutions of triangles with applications; complex numbers; polar coordinates.

**Prerequisites:** Math Placement Level 30 or grade of C or better in CGS MAT 105(P), CGS MAT 108(P), or CGS MAT 116(P).

**Course Rules:** Repeats 2 credits of CGS MAT 113.

**General Education Requirements:** MS

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 124 Pre-Calculus Mathematics**

5 cr.

Essential topics from College Algebra and Trigonometry for students intending to enroll in Calculus. Covers similar material as CGS MAT 115 but at a slower pace.

**Prerequisites:** Math Placement Level 20 or grade of C or better in CGS MAT 98(P).

**Course Rules:** Students may not earn more than five credits of any combination of CGS MAT 110, CGS MAT 113, CGS MAT 115, CGS MAT 116, CGS MAT 117, and CGS MAT 124.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 130 Mathematics for Elementary Teachers**

4 cr.

A mathematics content course for prospective elementary teachers.

Emphasis is on development of properties of arithmetic. Topics also may include elementary concepts of algebra, probability, and statistics. Four hours lecture or three hours lecture and two hours laboratory per week.

**Prerequisites:** A grade of C or better in CGS MAT 103B or CGS MAT 105 or CGS MAT 108, or two years of high school algebra and one year of high school geometry, or cons. instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 175 Mathematical Explorations for Elementary Teachers I**

3 cr.

Theory of arithmetic of whole numbers, fractions, and decimals. Introduction to algebra, estimation and problem-solving strategies.

**Prerequisites:** Math Placement Level 20 or higher or grade of C or better in CGS MAT 102(P), CGS MAT 103(P), CGS MAT 108(P).

**General Education Requirements:** MS

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 176 Mathematical Explorations for Elementary Teachers II**

3 cr.

A continuation of CGS MAT 175 in geometry, statistics, and probability.

**Prerequisites:** Math Placement Level 20 or higher or grade of C or better in CGS MAT 102(P), CGS MAT 103(P), or CGS MAT 108(P).

**General Education Requirements:** MS

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 210 Topics in Finite Mathematics**

3-4 cr.

UW COLLEGES COURSES ONLINE ONLY. Matrices, linear programming and applications, probability, Markov chains, and mathematics of finance. Prereq: A grade of C or better in MAT 110 or MAT 124 or equivalent or placement based on placement test score.

**General Education Requirements:** MS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 211 Calculus**

4 cr.

A one-semester survey with applications to business administration, economics, and non-physical sciences. Topics include coordinate systems, equations of curves, limits, differentiation, integration, applications.

**Prerequisites:** Math Placement Level 30 or grade of C or better in CGS MAT 105(P), CGS MAT 108(P), or CGS MAT 116(P).

**Course Rules:** May not be used as a prereq for CGS MAT 222. No credit for students with credit in CGS MAT 221.

**General Education Requirements:** MS

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 215 Elementary Statistical Analysis**

3 cr.

Elementary probability theory; descriptive statistics; sampling distributions; basic problems of statistical inference including estimation; tests of statistical hypothesis in both one- and two- sample cases.

**Prerequisites:** Math Placement Level 30 or higher, or a grade of C or better in CGS MAT 102, CGS MAT 103, CGS MAT 105, CGS MAT 108, CGS MAT 115, or CGS MAT 116.

**General Education Requirements:** MS

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 215X Elementary Statistical Analysis**

3 cr.

Elementary probability theory; descriptive statistics; sampling distributions; basic problems of statistical inference including estimation; tests of statistical hypothesis in both one- and two- sample cases.

**Prerequisites:** Math Placement Level 30 or higher, or a grade of C or better in CGS MAT 102, CGS MAT 103, CGS MAT 105, CGS MAT 108, CGS MAT 115, or CGS MAT 116.

**General Education Requirements:** MS

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 221 Calculus and Analytical Geometry I**

5 cr.

Analytic geometry, functions, limits and continuity, the derivative, integrals, techniques and applications of differentiation, applications of integration, logarithmic and exponential functions, and trigonometric functions.

**Prerequisites:** Math Placement Level 40; or grade of C or better in CGS MAT 115(P); or both proficiency in Trigonometry (grade of C or better in CGS MAT 117(P), or Level 26 or 36 on Math Placement Test) and proficiency in Algebra (grade of C or better in CGS MAT 116(P) or CGS MAT 211(P), or Level 35 on Math Placement Test).

**Course Rules:** Students may not earn more than six credits by taking both CGS MAT 211 and CGS MAT 221.

**General Education Requirements:** MS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 222 Calculus & Analytical Geometry II**

5 cr.

UW COLLEGE COURSES ONLINE ONLY. Continuation of CGS MAT 221. Techniques of integration, polar coordinates, conic sections, infinite series, and vectors of two and three dimensions.

**Prerequisites:** A grade of C or better in CGS MAT 221, or placement based on the department Calculus Proficiency Test or AP exam.

**Course Rules:** The order of topics covered in CGS MAT 221 and CGS MAT 222 may depend on the text used and the instructor.

**General Education Requirements:** MS

**Last Taught:** Summer 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 228 Statistical Analysis**

3 cr.

Elements of probability theory; collection and presentation of sample data; basic problems of statistical inference; applications, including quality control; regression; and hypothesis testing.

**Prerequisites:** grade of C or better in CGS MAT 211, CGS MAT 221, or equivalent.

**General Education Requirements:** MS

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 229 Linear Algebra**

3 cr.

Matrix algebra, linear systems of equations, vector spaces, subspaces, linear dependence, rank of matrices, determinants, linear transformations, eigenvalues and eigenvectors, diagonalization, inner products and orthogonal vectors, and symmetric matrices.

**Prerequisites:** A grade of C or better in CGS MAT 222.

**General Education Requirements:** MS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 232 Calculus and Analytic Geometry II**

4 cr.

Continuation of CGS MAT 221. Applications of integration, techniques of integration; infinite sequences and series; parametric equations, conic sections, and polar coordinates.

**Prerequisites:** grade of C or better in CGS MAT 221.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 233 Calculus and Analytic Geometry III**

4 cr.

Continuation of CGS MAT 232. Three-dimensional analytic geometry and vectors; partial derivatives; multiple integrals; vector calculus, with applications.

**Prerequisites:** grade of C or better in CGS MAT 232.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 234 Linear Algebra and Differential Equations**

4 cr.

Elementary differential equations. Vectors; matrices; linear transformations; quadratic forms; eigenvalues; applications.

**Prerequisites:** grade of C or better in CGS MAT 232 or equivalent.

**General Education Requirements:** MS

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MAT 271 Ordinary Differential Equations**

3 cr.

Ordinary differential equations of the first and second order, series solutions, higher order linear equations, the Wronskian, Laplace transform and applications, numerical methods and boundary value problems.

**Prerequisites:** A grade of C or better in CGS MAT 222.

**General Education Requirements:** MS

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Meteorology (CGS MLG)

**CGS MLG 100 Introduction to Meteorology**

3-4 cr.

Conditions and the processes of the atmosphere that constitute weather; description and explanation of various atmospheric processes.

**Prerequisites:** none.

**Course Rules:** NS (if 4 cr. also LS).

**General Education Requirements:** NS

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Music (CGS MUS)

**CGS MUS 1 Beginning Piano**

1-2 cr.

A study of basic piano technique toward skill in playing five-finger patterns and triads in all major and minor keys, chord progressions in all major keys, major and harmonic minor scales, basic transposition, legato and staccato touch and responsiveness to phrasing.

**Prerequisites:** consent of instructor.

**General Education Requirements:** AP

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MUS 2 Beginning Piano**

1-2 cr.

A continuation of skills learned in MUS 001 extending beyond five-finger patterns, including more complex chord progressions, varied types of touch control, additional major and harmonic minor keys and scales, and sixteenth note rhythms.

**Prerequisites:** successful completion of MUS 001 and/or cons. instr.

**General Education Requirements:** AP

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MUS 3 Elementary Piano**

1-2 cr.

A continuation of skills learned in CGS MUS 002: dexterity playing major and harmonic minor scales and arpeggios, harmonization of a given melody with block chord accompaniment, playing various rhythms including syncopation in simple, compound and asymmetric meters, and reading and playing two parts including alto or tenor clef.

**Prerequisites:** successful completion of CGS MUS 002 and/or consent of instructor.

**General Education Requirements:** AP

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MUS 4 Elementary Piano**

1-2 cr.

A continuation of skills learned in CGS MUS 3 adding scales and arpeggios in additional keys, harmonizing a given melody with an arpeggiated chordal accompaniment, reading and playing in three and four part score format, and additional and varied repertoire.

**Prerequisites:** successful completion of CGS MUS 3 and/or consent of instructor.

**General Education Requirements:** AP

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MUS 70 Orchestra**

1-2 cr.

Open to all students with experience playing an orchestral instrument.

**Prerequisites:** Individual campuses may require an audition for admission.

**Course Rules:** Repeatable to a max of 8 credits.

**General Education Requirements:** AP

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MUS 71 Band**

1-2 cr.

Open to all students with experience playing a band instrument.

**Prerequisites:** Individual campuses may require an audition for admission.

**Course Rules:** Repeatable to a max of 8 credits.

**General Education Requirements:** AP

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MUS 72 Chorus**

1-2 cr.

Open to all students.

**Prerequisites:** Individual campuses may require an audition for admission.**Course Rules:** Repeatable to a max of 8 credits.**General Education Requirements:** AP**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 170 Fundamentals of Music**

3 cr.

This course is designed to acquaint the student with the fundamentals of music through experiences with the keyboard, rhythm instruments, singing, listening, and note reading. Required for some elementary education majors and open to the general student. Acceptable as preparation for a music major or minor program.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Fall 2022, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 171 Music Theory I**

3 cr.

A detailed study of the development of Western Music's structural techniques and basic compositional components through the study and analysis of harmony and an introduction to counterpoint. Notation, rhythm, major and minor keys, modes, root position triads, inverted chords, non-harmonic tones and an introduction to part writing will be studied. Includes keyboard work to examine, explore and understand the materials studied. Open to all students with consent of instructor. Required of students planning a music major or minor.

**Prerequisites:** Cons. instr.**Course Rules:** Music majors and minors must enroll concurrently in CGS MUS 181 to meet aural skills requirement.**General Education Requirements:** A**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 172 Music Theory II**

3 cr.

Continuation of CGS MUS 171. Melodic harmonization, voice-leading, harmonic and rhythmic progression, dominant seventh and leading-tone seventh chords, non-dominant seventh chords, introduction to modulation, secondary dominant and leading-tone chords, introduction to two and three-part forms and counterpoint will be studied. Required of students planning a music major or minor. Music majors and minors must enroll concurrently in CGS MUS 182 to meet aural skills requirements.

**Prerequisites:** CGS MUS 171.**General Education Requirements:** A**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 173 Music Literature and Appreciation**

3 cr.

A guide to the understanding of music through listening experiences in the various styles and historical periods.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 173X Music Literature and Appreciation**

3 cr.

A guide to the understanding of music through listening experiences in the various styles and historical periods.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 174 Music Literature and Appreciation**

3 cr.

A guide to the understanding of music through listening experiences in the various styles and historical periods. Although a continuation of MUS 173, MUS 173 is not a prerequisite for admission to this course.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 181 Aural Skills I**

2 cr.

Development of skills in sight-singing and ear-training. Required of students planning a music major or minor and enrolled in CGS MUS 171.

**Prerequisites:** none.**General Education Requirements:** AP**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 182 Aural Skills II**

2 cr.

Development of skills in sight-singing and ear-training. Required of students planning a music major or minor and enrolled in CGS MUS 172.

**Prerequisites:** CGS MUS 181.**General Education Requirements:** AP**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 271 Music Theory III**

3 cr.

A continuation of CGS MUS 172 with an introduction to advanced harmony and counterpoint. Concepts of counterpoint, harmonic sequences, chromatic harmony, advanced modulation, Neapolitan and augmented sixth chords, more complex forms such as sonata, concerto, sonata-rondo and the fugue will be studied. Required of students planning a music major or minor.

**Prerequisites:** Music majors and minors must enroll concurrently in CGS MUS 281 to meet aural skills requirements. Prereq. CGS MUS 172.**General Education Requirements:** A**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 273 Jazz History and Appreciation**

3 cr.

An introduction to the styles and forms of jazz through a study of its history, literature, cultural influences, musical structure, and prominent performers. Includes recorded listening experiences.

**Prerequisites:** none.**General Education Requirements:** A, CD**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS MUS 273X Jazz History and Appreciation**

3 cr.

An introduction to the styles and forms of jazz through a study of its history, literature, cultural influences, musical structure, and prominent performers. Includes recorded listening experiences.

**Prerequisites:** none.**General Education Requirements:** A, CD**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 278 History of Rock and Roll**

3 cr.

A study of Rock and Roll with emphasis on the roots, origins and influential figures in the history of this cultural phenomenon. Includes recorded listening experiences.

**Prerequisites:** none.**General Education Requirements:** A, CD**Last Taught:** UWinterIM 2024, Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 281 Aural Skills III**

2 cr.

Development of aural skills in sight-singing and ear-training. Required of students planning a music major or minor and enrolled in CGS MUS 271.

**Prerequisites:** CGS MUS 182.**General Education Requirements:** AP**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 282 Aural Skills IV**

2 cr.

Development of aural skills in sight-singing and ear-training.

**Prerequisites:** CGS MUS 281.**Course Rules:** Required of students planning a music major or minor and enrolled in CGS MUS 272.**General Education Requirements:** AP**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 285 World Music**

3 cr.

A guide to the understanding of non-Western and ethnic Western music through guided listening experiences of representative music throughout the world; the study of the effect of demographics and geographic concepts within a culture; and the resulting impact on America's diverse musical culture.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUS 299 Independent Study**

1-3 cr.

Readings, papers, reports or projects to be determined by the instructor.

**Prerequisites:** consent of instructor.**Course Rules:** Repeatable.**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS Music Applied (CGS MUA)****CGS MUA 11 Beginning Guitar**

1-2 cr.

**Prerequisites:** none.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS MUA 13 Intermediate Guitar**

1-2 cr.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS Philosophy (CGS PHI)****CGS PHI 101 Introduction to Philosophy**

3 cr.

An introduction to philosophy as an activity of clarifying ideas, developing and evaluating positions and arguments, and thinking critically about the Big Ideas That Matter.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 201 Asian Philosophy**

3 cr.

An exploration of philosophically significant topics pertaining to the traditions of Asia. Attention will be paid to arguments pertaining to these topics as well as careful analysis of such classic primary sources as the Upanishads, Bhagavad Gita, Analects, Daodejing, and Zhuangzi.

**Prerequisites:** none.**Course Rules:** CGS PHI 201 and CGS REL 201 are the same course.**General Education Requirements:** HU**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 202 Feminist Philosophy**

3 cr.

An introduction to feminist philosophies through a study and critique of traditional and feminist views about women, their lives, society, and knowledge, with particular attention to theories of women's oppression.

**Prerequisites:** none.**Course Rules:** CGS PHI 202 and CGS GSW 202 are the same course.**General Education Requirements:** HU**Last Taught:** Summer 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 210 Thinking Critically**

3 cr.

Introduction to critical thinking, with an emphasis on its importance to human life e.g., education, employment, morality, politics, religion.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PHI 211 Elementary Logic**

3 cr.

Principles and methods of logic as a tool for distinguishing good reasoning from bad, as present in anything from science and math to politics and personal relationships. Symbolic, deductive logic primarily propositional logic, with an introduction to predicate logic; may include some informal or inductive logic e.g., fallacies.

**Prerequisites:** none**General Education Requirements:** MS**Last Taught:** Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 215 Theory of Knowledge**

3 cr.

An examination of the nature and limits of knowledge and the methods used for obtaining it. Topics typically include the distinction between knowledge and belief, problems of evidence and truth, the role of perception and memory, social aspects of knowledge, realism, relativism, skepticism, correspondence and coherence theories of truth, and the role of various disciplines e.g., philosophy, science, religion in attaining knowledge.

**Prerequisites:** none**General Education Requirements:** HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 220 Philosophy of Science**

3 cr.

Methods, assumptions, and common misconceptions of the sciences as a source of knowledge of the natural world. Discussion of major figures in the history and philosophy of science e.g., Aristotle, Newton, Einstein, Hume, Popper, Kuhn, central concepts and theories e.g., induction, causality, probability, falsificationism, instrumentalism; the relationship of science to other aspects of society e.g., morality, politics, religion.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 237 Technology, Values and Society**

3 cr.

Philosophical issues that emerge from the world of technology in which we live. Topics may include freedom, censorship, privacy, equality, democratic participation, intellectual property, education, law enforcement, institutional change, work, and all the personal and public choices about technology and its use with which we are confronted today.

**Prerequisites:** none**General Education Requirements:** HU**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 241 Ethics**

3 cr.

Philosophical ethics, with attention paid to the philosophical methods of analysis and argumentation used to drive and evaluate moral theories and judgments. Topics may include the nature of moral truth e.g., absolute truth, relativism, pluralism, prominent moral theories e.g., virtue ethics, deontology, utilitarianism, important figures form the history of philosophy e.g., Aristotle, Kant, J.S. Mill, and contemporary moral issues e.g., abortion, capital punishment, euthanasia.

**Prerequisites:** none**General Education Requirements:** HU**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 242 Social and Political Philosophy**

3 cr.

An examination of differing philosophical views about human kind and its social and political life. Topics may include the question of political legitimacy, the function of the state, the possible rights and obligations of citizens vis-à-vis the state, general concepts of justice, liberty, equality, and community as well as possible specific conceptions of these terms, and how social goods should be distributed.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 243 Business Ethics**

3 cr.

Critical discussion of ethical reasoning and moral values in business and industry; includes relevant case studies and readings.

**Prerequisites:** none.**Course Rules:** CGS BUS 242 and CGS PHI 243 are the same course; they count as repeats of one another.**General Education Requirements:** HU**Last Taught:** UWinterIM 2024, Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 244 Environmental Ethics**

3 cr.

A philosophical examination of both traditional and recent concepts and values which structure human attitudes towards the natural environment. Theories may include anthropocentrism, biocentrism, ecocentrism, Leopold's land ethic, deep ecology, and ecofeminism. Topics may include the ethics of using land for large-scale agricultural purposes, factory farming, fishing, hunting, xenotransplantation, species depletion, ozone depletion, and climate change.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PHI 248 Biomedical Ethics**

3 cr.

Study of ethical issues pertaining to medicine and related biological sciences. Issues covered usually include abortion, euthanasia, truth telling, confidentiality, experimentation on human subjects, behavior modification, genetic engineering, criteria of death, organ transplants, professional relationships, and professional duties.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 253 Philosophy of the Arts**

3 cr.

An examination of production, appreciation, and criticism of art. Topics may include the nature of art, the nature of beauty, the functions of art if any, the moral status of works of art, aesthetic evaluation, the antimony of taste, the paradoxes of fiction, tragedy, and horror, and public financing of art. Theories may include the imitation/representation theory, expressionism, formalism, aesthetic experience theory, and institutional theory.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 258 Human Nature, Religion and Society**

3 cr.

Study and critique of the views of theistic and secular writers concerning religion and its relationship to individual and social problems.

**Prerequisites:** none.**Course Rules:** CGS PHI 258 and CGS REL 258 are the same course.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 259 Philosophy and Racism**

3 cr.

Examination of the concept of race in the societies, with concentration on its use in the United States. How racism is seen from the dominant standpoint as opposed to how racism is seen from those who experience it; how the structure of racism has differed in regard to different ethnic groups; comparison of the experience of at least two different ethnic groups in the US in this regard; the place or lack of place of immorality in the creation of and in solutions to the problem.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 261 Philosophy of Religion**

3 cr.

An exploration and critical examination of philosophically significant topics pertaining to religion and its claims of knowledge of reality, divine or otherwise.

**Prerequisites:** none.**Course Rules:** CGS PHI 261 and CGS REL 261 are the same course.**General Education Requirements:** HU**Last Taught:** Fall 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 291 Selected Topics in Philosophy**

3 cr.

Each course offering must be approved by both the local campus and the chair of the department.

**Prerequisites:** varies with each offering.**Course Rules:** Repeatable.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHI 299 Independent Reading in Philosophy**

1-3 cr.

Program must be approved by chair of the department.

**Prerequisites:** consent of instructor.**Course Rules:** Repeatable.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Physics (CGS PHY)

**CGS PHY 107 Physics in Everyday Life**

3 cr.

Selected topics for citizens in a technological world. Emphasis on those aspects of science important to an understanding of our surroundings.

For non-science majors.

**Prerequisites:** Math Placement Level 10 or consent of instructor.**Course Rules:** May not be taken concurrently with or after having taken CGS PHY 120.**General Education Requirements:** NS**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 108 Laboratory for Physics in Everyday Life**

1 cr.

Experiments correlated with CGS PHY 107.

**Prerequisites:** Concurrent enrollment in or completion of CGS PHY 107.**General Education Requirements:** NS+**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 110 Physics for Health Professions**

4 cr.

An introductory course without laboratory for students in health-related pre-professional programs. Topics include mechanics, fluids, heat, sound, electricity, magnetism, electrical devices, optics, and radioactivity.

**Prerequisites:** HS general science; Math Placement Level 20.**Course Rules:** May not be taken concurrently with or after having taken CGS PHY 120.**General Education Requirements:** NS**Last Taught:** Spring 2022, UWinterIM 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 120 General Physics I (Non-Calculus Treatment)**

4 cr.

Mechanics, wave motion, heat, and sound.

**Prerequisites:** Math Placement Level 30 or grade of C or better in CGS MAT 105, CGS MAT 108, or CGS MAT 110.**Course Rules:** Students may not receive credit for both CGS PHY 120 and CGS PHY 209.**General Education Requirements:** NS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PHY 121 General Physics Laboratory I (Non-Calculus Treatment)**

1 cr.

Experiments correlated with lecture material of CGS PHY 120.

**Prerequisites:** Concurrent enrollment in or completion of CGS PHY 120.**Course Rules:** Students may not receive credit for both CGS PHY 121 and CGS PHY 214.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 122 General Physics II (Non-Calculus Treatment)**

4 cr.

Electricity, optics, modern physics.

**Prerequisites:** CGS PHY 120(P).**Course Rules:** 3 hr lecture, 1 hr discussion. Students may not receive credit for both CGS PHY 122 and CGS PHY 210.**General Education Requirements:** NS**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 123 General Physics Laboratory II (Non-Calculus Treatment)**

1 cr.

Experiments on topics related to the lecture material of CGS PHY 122.

**Prerequisites:** Concurrent enrollment in or completion of CGS PHY 122.**Course Rules:** Students may not receive credit for both CGS PHY 123 and CGS PHY 215.**General Education Requirements:** NS+**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 141 College Physics I**

4-5 cr.

UW COLLEGE COURSES ONLINE ONLY. The study of mechanics, heat, wave motion and sound. Recommended for students majoring in business, elementary education, medical technology, pharmacy, pre-dentistry and pre-medical studies. Three hours of lecture and three-four hours of laboratory-discussion per week or equivalent.

**Prerequisites:** CGS MAT 105 or cons. instr.**Course Rules:** Students may not receive credit for both CGS PHY 141 and 201.**General Education Requirements:** NS+**Last Taught:** Summer 2020, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 142 College Physics II**

4-5 cr.

UW COLLEGE COURSES ONLINE ONLY. A continuation of CGS PHY 141.

Electricity, magnetism, light, and some modern physics.

**Prerequisites:** Grade of C or better in CGS PHY 141 or cons. instr.**Course Rules:** Three hours of lecture and three-four hours of laboratory-discussion per week or equivalent. Students may not receive credit for both CGS PHY 142 and CGS PHY 202.**General Education Requirements:** NS+**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 201 University Physics I**

5 cr.

UW COLLEGE COURSES ONLINE ONLY. The study of mechanics, heat, wave motion, and sound.

**Prerequisites:** CGS MAT 221 or concurrent registration with cons. instr.**Course Rules:** Recommended for physical science and engineering majors. Three hours of lecture, one hour of discussion, and three hours of laboratory per week or equivalent. Students may not receive credit for both CGS PHY 141 and CGS PHY 201.**General Education Requirements:** NS+**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 202 University Physics II**

5 cr.

UW COLLEGE COURSES ONLINE ONLY. A continuation of CGS PHY 201.

Electricity, magnetism, light, and some modern physics.

**Prerequisites:** Grade of C or better in CGS PHY 201 or cons. instr.**Course Rules:** Students may not receive credit for both CGS PHY 142 and CGS PHY 202.**General Education Requirements:** NS+**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 209 Physics I (Calculus Treatment)**

4 cr.

Selected topics in mechanics, wave motion, sound, and heat.

**Prerequisites:** Completion of or concurrent registration in CGS MAT 221.**Course Rules:** 3 hr lecture, 2 hr discussion. Students may not receive credit for both CGS PHY 120 and CGS PHY 209.**General Education Requirements:** NS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 210 Physics II (Calculus Treatment)**

4 cr.

Continuation of CGS PHY 209. Electromagnetic field theory and optics. 3 hour lecture, 1 hour discussion.

**Prerequisites:** Grade of C- or better in CGS PHY 209.**Course Rules:** Students may not receive credit for both CGS PHY 122 and CGS PHY 210.**General Education Requirements:** NS**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 214 Lab Physics I (Calculus Treatment)**

1 cr.

Experiments in mechanics, wave motion, heat, and thermodynamics.

**Prerequisites:** Concurrent enrollment in or completion of CGS PHY 209.**Course Rules:** 3 hr lab. Students may not receive credit for both CGS PHY 121 and CGS PHY 214.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CGS PHY 215 Lab Physics II (Calculus Treatment)**

1 cr.

Experiments in electricity, magnetism, and optics.

**Prerequisites:** Concurrent enrollment in or completion of CGS PHY 210.**Course Rules:** 3 hr lab. Students may not receive credit for both CGS PHY 123 and CGS PHY 215.**General Education Requirements:** NS+**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PHY 299 Independent Study**

1-3 cr.

Independent study under the supervision of an instructor. The work may, for example, consist of advanced laboratory investigation into a particular topic or library research and writing of a paper on some subject of interest.

**Prerequisites:** consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Political Science (CGS POL)

**CGS POL 101 Introduction to Politics**

3 cr.

What is the ideal form of government and society? A survey and analysis of ideas related to citizenship in the community, nation and world, with emphasis on competing political values/ideologies and civic engagement.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 104 American Government and Politics**

3 cr.

Analysis of the decision-making structure and processes of American national government, including the role of parties and interest groups, and the value preferences within American society which affect the formation of public policy.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 104X American Government and Politics**

3 cr.

Analysis of the decision-making structure and processes of American national government, including the role of parties and interest groups, and the value preferences within American society which affect the formation of public policy.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 105 State and Local Supplement to POL 104**

1 cr.

A one-credit study of state and local government.

**Prerequisites:** POL 104 or concurrent enrollment. SS**General Education Requirements:** SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 120 Politics of Crime and Punishment**

3 cr.

Focuses on the competing goals of public policy in criminal justice, from public order, due process, efficiency, rights and liberties. Analyzes the interplay of key actors including police, courts and prisons in policy-making and implementation. Includes the role of media and myth.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 160 Comparative Politics**

3 cr.

Studies a select set of important states with different political, economic, and cultural characteristics. Compares economic, social and political issues and policy choices, in addition to governance. Recommended for Business, Journalism, Education, and Political Science majors.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 175 International Politics**

3 cr.

Global problems, issues and debates since the end of the Cold War, including terrorism, cultural and religious conflict and changing power relations. Impact of social, economic and technological change and evolution of the state system. Cooperative problem-solving and peace-making.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 210 Civil Liberties**

3 cr.

An examination of civil liberties and their philosophical underpinnings. Through the reading of U.S. Supreme Court cases and other texts, students will study topics including the constitutional basis of civil liberties, the freedoms of conscience and expression, the rights of persons accused of crime, privacy, and property rights.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 215 Media and Politics**

3 cr.

An examination of the impact mass media has had on democratic politics in the United States, including the role media plays in influencing political behavior and attitudes. Topics covered in the class include media bias, media power, use of media by government and interest groups, the role of media in campaigns and elections, and the influence of media on policy makers.

**Prerequisites:** none.**General Education Requirements:** SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS POL 219 Public Policy: Power, Conflict, Choice**

3 cr.

Exploration of the public policy-making process in the U.S. with attention to select contemporary issues in American policy debates environment, energy, health, economic management, etc.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 231 Sex, Power and Public Policy**

3 cr.

Examination of controversial issues of gender that affect equality and power. Includes women's movement and the search for equality, justice and freedom. Examines political and judicial policies that exemplify success and failure.

**Prerequisites:** none.**Course Rules:** CGS POL 231 and CGS GSW 231 are the same course.**General Education Requirements:** SS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 275 Politics of Sports**

3 cr.

Examines the world of sports through the intersection of culture, business, politics, and globalization. Sports are examined as an arena to both sustain the status quo and to struggle for political change.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 280 Terrorism**

3 cr.

Terrorism, both current and historic, will be analyzed in its development, logic and impact. Includes controversies over security and liberty, intelligence and forewarning, and deals with political, philosophic and religious aspects. Analysis of alternative responses to terrorism, and local coping strategies disaster management.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 285 Politics of World Inequality and Development**

3 cr.

Why are some countries rich and others poor? Major theories and history of economic development. The role of the state in diverse economies. Effect of the global trade system, democracy, quality of life, and the environment. Examines human rights, experiences of indigenous people, gender, and the role of militarism.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 298 Special Topics**

1-3 cr.

A course for topics which would be appropriate for freshmen and sophomores. Topic and number of credits will be announced in the timetable.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 299 Independent Reading**

1-3 cr.

Survey of literature in a particular subject, possibly concluding with a research project supervised by the instructor. Subject and specific requirements determined by instructor/student agreement.

**Prerequisites:** consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 311 International Political Economy**

3 cr.

This course provides an introduction to the social, cultural, political, and economic issues in international economic cooperation and competition. Concepts, theories, and comparative approaches drawn from multiple social science disciplines are applied to the understanding of the history, transformation, trends and challenges in the pursuit of wealth for global and regional communities, as well as for individual nation states.

**Prerequisites:** Junior standing or consent of instructor.**Course Rules:** CGS POL 175, or CGS POL 160, or CGS POL 104 are strongly recommended.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS POL 385 Politics of World Inequality and Development**

3 cr.

Why are some countries rich and others poor? Major theories and history of economic development. The role of the state in diverse economies. Effects of the global trade system and international financial institutions on economic growth, democracy, quality of life, and the environment. Examines human rights, experiences of indigenous people, gender, and the role of militarism. Junior standing or consent of instructor.

**Prerequisites:** none.**Course Rules:** Recommended CGS POL 175 or CGS POL 160 or CGS POL 104.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Psychology (CGS PSY)

**CGS PSY 201 Introductory Psychology**

4 cr.

Survey of major content areas in Psychology. Topics include research methodology, learning, memory, cognition, biological psychology, sensation, perception, motivation, emotion, development, personality, psychopathology, and social psychology.

**Prerequisites:** none.**Course Rules:** Students may not receive credit for both CGS PSY 201 and CGS PSY 202.**General Education Requirements:** SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS PSY 202 Introductory Psychology**

3 cr.

See CGS PSY 201 course description. Students may not receive credit for both CGS PSY 201 and CGS PSY 202.

**Prerequisites:** none.**Course Rules:** Counts as a repeat of PSYCH 101.**General Education Requirements:** SS**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 202X Introductory Psychology**

3 cr.

See CGS PSY 201 course description. Students may not receive credit for both CGS PSY 201 and CGS PSY 202.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of PSYCH 101.

**General Education Requirements:** SS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 210 Statistical Methods in Psychology**

3 cr.

An introduction to descriptive and inferential statistics. Topics include measures of central tendency, measures of variability, correlation and regression, sampling distributions, and hypothesis testing procedures including t-tests, and analysis of variance.

**Prerequisites:** a grade of C- or better in CGS PSY 201 or CGS PSY 202; completion of or concurrent registration in CGS MAT 103, CGS MAT 105, CGS MAT 108, CGS MAT 116, or Math Placement Level 30 or above; or consent of instructor.

**General Education Requirements:** MS

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 212 Career Planning and Development for the Multicultural Workplace**

3 cr.

Understanding of and preparation for multicultural work environments; critical reflection on cultural identities, connecting personal history to social and historical forces, understanding bias and oppression.

**Prerequisites:** OWC Part A or CGS ENG 102(P).

**Course Rules:** CGS PSY 212 and ED PSY 212 are jointly offered and count as repeats of one another.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 220 Positive Psychology Applied to Culture, Learning, & Development**

3 cr.

Introduction to topics related to happiness and positive aspects of the learning experience, positive psychological constructs that optimize learning.

**Prerequisites:** OWC Part A or CGS ENG 102(P).

**Course Rules:** CGS PSY 220 and ED PSY 220 are jointly offered and count as repeats of one another.

**General Education Requirements:** OWCB

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 224 Conceptual Introduction to Statistics**

1 cr.

This course is a supplement to CGS PSY 225 for students who have had no previous course in statistics.

**Prerequisites:** PCGS SY 201/CGS PSY 202 grade of C- or better or cons. instr. and concurrent registration in CGS PSY 225.

**Course Rules:** This course is not a substitute for CGS PSY 210 and does not satisfy requirements for an introductory course in statistics.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 225 Experimental Psychology**

4 cr.

Emphasis on research techniques, design, and methodologies including the collection, analysis, and reporting of psychological data. Lecture and laboratory.

**Prerequisites:** CGS PSY 210 or equivalent statistics course.

**General Education Requirements:** NS+

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 250 Life Span Developmental Psychology**

3 cr.

A survey of human development theories and research. Topics include the biological, cognitive, emotional, and social development of the individual from the prenatal period through old age and the process of death and dying.

**Prerequisites:** CGS PSY 201 or CGS PSY 202 with a grade of C- or better, or cons. instr.

**Course Rules:** Students taking CGS PSY 250 may not also receive credit for CGS PSY 360 or CGS PSY 362.

**General Education Requirements:** SS

**Last Taught:** Spring 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 254 Behavioral Neuroscience**

3 cr.

Discussion of the biological substrates of attention, emotion, motivation, learning, cognition, language and psychopathology; includes an examination of research using lesions, stimulation and neuroimaging.

Some background in biology is strongly recommended

**Prerequisites:** PSY CGS 201 or PSY CGS 202 with a grade of C- or better, or cons. instr.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 299 Directed Study in Psychology**

1-3 cr.

Directed reading of the literature in a particular subject, possibly including a research project, under the personal supervision of the instructor.

**Prerequisites:** a grade of C- or better in CGS PSY 201 or CGS PSY 202 and consent of instructor.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 307 Psychology of Personality**

3 cr.

Discussion of major theories and research in personality; may include behavioral, biological, cognitive, dispositional, humanistic, and psychoanalytic perspectives.

**Prerequisites:** CGS PSY 201 or CGS PSY 202 with a grade of C- or better, or cons. instr.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 309 Abnormal Psychology**

3 cr.

Contemporary theory and research on abnormal behavior, includes diagnostic categories, approaches to treatment and understanding of abnormal behavior.

**Prerequisites:** a grade of C- or better in CGS PSY 201 or CGS PSY 202; or consent of instructor. One additional course in psychology is recommended.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 330 Social Psychology**

3 cr.

Theory and research in areas such as social cognition, attitude formation and change, attribution theory, interpersonal attraction, group processes, social influence, aggression and prosocial behavior.

**Prerequisites:** a grade of C- or better in CGS PSY 201 or CGS PSY 202; or consent of instructor.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 360 Psychology of Childhood and Adolescence**

3 cr.

A survey of human development theories and research. Topics include the biological, cognitive, emotional and social development of the individual from the prenatal period through adolescence.

**Prerequisites:** a grade of C- or better in CGS PSY 201 or CGS PSY 202, or consent of instructor.

**Course Rules:** Students may not receive credit for both CGS PSY 360 and CGS PSY 250.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS PSY 362 Psychology of Adulthood and Aging**

3 cr.

A survey of human development theories and research. Topics include biological, cognitive, emotional and social development of the individual from young adulthood through old age and the process of death and dying.

**Prerequisites:** a grade of C- or better in CGS PSY 201 or CGS PSY 202, or consent of instructor.

**Course Rules:** Students may not receive credit for both CGS PSY 362 and CGS PSY 250.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS Religious Studies (CGS REL)****CGS REL 100X Introduction to the Study of Religion**

3 cr.

Introduction to various methods employed in the academic study of religion, providing opportunity for students to apply these methods to diverse expressions of religious life.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of CGS REL 101X; students may not take both CGS REL 100X and CGS REL 101 for college credit.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS REL 101 Introduction to the Study of Religion**

3 cr.

Introduction to various methods employed in the academic study of religion, providing opportunity for students to apply these methods to diverse expressions of religious life.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of CGS REL 100X; students may not take both REL 100X and REL 101 for college credit.

**General Education Requirements:** HU, IS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS REL 201 Asian Philosophy**

3 cr.

An exploration of philosophically significant topics pertaining to the traditions of Asia. Attention will be paid to arguments pertaining to these topics as well as careful analysis of such classic primary sources as the Upanishads, Bhagavad Gita, Analects, Daodejing, and Zhuangzi.

**Prerequisites:** none.

**Course Rules:** CGS PHI 201 and CGS REL 201 are the same course.

**General Education Requirements:** HU

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS REL 258 Human Nature, Religion and Society**

3 cr.

Study and critique of the views of theistic and secular writers concerning religion and its relationship to individual and social problems.

**Prerequisites:** none.

**Course Rules:** CGS PHI 258 and CGS REL 258 are the same course.

**General Education Requirements:** HU

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS REL 261 Philosophy of Religion**

3 cr.

An exploration and critical examination of philosophically significant topics pertaining to religion and its claims of knowledge of reality, divine or otherwise.

**Prerequisites:** none.

**Course Rules:** CGS PHI 261 and CGS REL 261 are the same course.

**General Education Requirements:** HU

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS REL 275 Religion, Spirituality, and Secularism in Society**

3 cr.

The sociological approach to the study of religious beliefs, practices, and organizations, as found in the world religions, the religions of indigenous peoples, and new religions. Includes the role of religion in socialization, personal identity, family, politics, economics, and other social institutions. How religious patterns relate to race, ethnicity, class, and gender. The place of religion in modern and postmodern societies, including discussions of religion and secularization, fundamentalism, and globalization.

**Prerequisites:** Not recommended for first-semester students, except with consent of instructor.

**Course Rules:** CGS REL 275 and CGS SOC 275 are jointly offered and count as repeats of one another.

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS REL 276 Religion and the Environment**

3 cr.

Relationship between different religious perspectives and certain ways of viewing and interacting with the natural world, including the effects of these outlooks and their connection to contemporary environmental issues.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS REL 299 Independent Reading in Religious Studies**

1-3 cr.

Intensive study of a sacred text or of a secondary theological, literary, exegetic or other text within a religious tradition.

**Prerequisites:** none.**General Education Requirements:** HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS REL 343 Religion, Magic and Witchcraft**

3 cr.

Descriptions and interpretations of magico-religious beliefs and practices in a variety of cultures from an anthropological perspective; examines theories about religion and some of the conceptual issues regarding the interpretation of religion and related phenomena which have interested anthropologists over time.

**Prerequisites:** none.**Course Rules:** CGS ANT 343 and CGS REL 343 are the same course. Not recommended for first-semester students.**General Education Requirements:** SS**Last Taught:** Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Sociology (CGS SOC)

**CGS SOC 101 Introduction to Sociology**

3 cr.

Introduction to the basic concepts, theories and methods of Sociology, emphasizing the significance of the self and culture, social process and organization, and forces of social stability and change.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS SOC 101X Introduction to Sociology**

3 cr.

Introduction to the basic concepts, theories and methods of Sociology, emphasizing the significance of the self and culture, social process and organization, and forces of social stability and change.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS SOC 130 Contemporary Social Problems**

3 cr.

Sociological analysis of the nature, extent, causes, and potential solutions to selected major social problems such as poverty and wealth, racial and gender discrimination, crime and violence, drug abuse, family problems, quality of education, inadequate health care, population problems, intergroup conflict, and threats to the environment.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS SOC 160 Sociology of Human Sexuality**

3 cr.

Sociological overview of issues in human sexuality. Course is based on sociological investigations of the origins, nature and biosocial consequences of varying customs and ideals of human sexuality. Among topics that may be covered are: sex and family life, contraception, abortion and social power, violations of sexual norms and ideas about sexual propriety, origins and impact of sexual liberation movements, sociosexual aspects of epidemics, sociological interpretations of sexual dissatisfactions.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS SOC 205 Global Social Problems**

3 cr.

Sociological analysis of the nature, extent, causes, and potential solutions to global social problems such as consumerism, poverty and wealth, human rights, population growth and hunger, health issues, militarism and terrorism, and threats to the environment.

**Prerequisites:** Not recommended for first-semester students.**General Education Requirements:** SS**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS SOC 220 Sociology of Marriage and the Family**

3 cr.

Marriage and the family as social institutions in a changing world. Historical changes and societal variations in family patterns. Changes over the life cycle. Explores the sources and consequences of a variety of family forms.

**Prerequisites:** Not recommended for first-semester students.**General Education Requirements:** SS**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CGS SOC 231 Crime and Criminal Justice**

3 cr.

Explores the nature of crime and reviews ideas about definitions, causes, and solutions. Includes an introduction to the day-to-day functioning of the criminal justice system, the police, lawyers, courts, and correctional personnel.

**Prerequisites:** Not recommended for first-semester students.**General Education Requirements:** SS**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS SOC 234 Sociology of Race and Ethnicity**

3 cr.

The experience of American racial, religious, ethnic and nationality groups. The nature of intergroup relations in the United States. Relationship of intergroup dynamics to social change, and to basic ideological, technological, and institutional structures and processes. Emphasis on social conflict over the distribution of economic and political power, family patterns, housing, education and access to the legal system.

**Prerequisites:** Not recommended for first-semester students.

**General Education Requirements:** CD, SS

**Last Taught:** UWinterIM 2024, Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS SOC 246 Juvenile Delinquency**

3 cr.

Examines the theories of the nature, causes, consequences, and prevention of juvenile misbehavior through examination of historic changes in the definition and frequency of juvenile offenses. Controversies over the practice of distinguishing juvenile crime and misbehavior from adult crime. Controversies over the treatment and punishment of juveniles, in connection with the activities of juvenile courts, parents and school officials, local communities, police departments, politicians, networks of attorneys and treatment personnel, and correctional authorities.

**Prerequisites:** Not recommended for first-semester students.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS SOC 250 People, Organizations, and Society**

3 cr.

Role of organizations, including business, governmental, and educational, in American society. Impact of organizations on members and clients, the internal dynamics of organizations, and the interchange between organizations and their environment, including the society as a whole.

**Prerequisites:** Not recommended for first-semester students.

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS SOC 275 Religion, Spirituality, and Secularism in Society**

3 cr.

The sociological approach to the study of religious beliefs, practices, and organizations, as found in the world religions, the religions of indigenous peoples, and new religions. Includes the role of religion in socialization, personal identity, family, politics, economics, and other social institutions. How religious patterns relate to race, ethnicity, class, and gender. The place of religion in modern and postmodern societies, including discussions of religion and secularization, fundamentalism, and globalization.

**Prerequisites:** Not recommended for first-semester students, except with consent of instructor.

**Course Rules:** CGS REL 275 and CGS SOC 275 are jointly offered and count as repeats of one another.

**General Education Requirements:** SS

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS SOC 285 Sociology of Health and Illness**

3 cr.

Sociological perspectives on health and illness, with special attention to changes in patterns of illness and death as they relate to broader socio-economic changes and to changes in orientation and organization of health care providers. Among major topics that the course covers are: competing theories of disease and death trends; social circumstances under which epidemics emerge and are curbed; public health and medical center models of providing health care and preventing disease, injury, and death; organization of health care providers; comparisons among health systems.

**Prerequisites:** Not recommended for first-semester students.

**General Education Requirements:** SS

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS SOC 294 Practice in Applied Sociology**

1-3 cr.

An individually arranged internship in an area museum, field site, public agency, or other organizations for students to gain practical experience as field researchers. Intended for advanced students with prior Sociology coursework. Students will work under the supervision of a department member and receive credit based on hours employed and completion of a final report summarizing how their experiences reflect classroom learning and how they will apply their experience in future work.

**Prerequisites:** previous Sociology course and consent of instructor.

**Course Rules:** Repeatable for a maximum of six credits.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS SOC 299 Independent Reading in Sociology**

1-3 cr.

**Prerequisites:** consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS SOC 355 Sociology of the Environment**

3 cr.

Explores the socio-cultural foundations of our relationship with the natural environment. Examines the relationship between environmental degradation and social, political, and economic structures. Explores beliefs and values about the environment and their expression in various forms of environmentalism and environmental movements. Also analyzes the presentation of environmental issues in cultural, political, and scientific domains.

**Prerequisites:** Not recommended for first-semester students.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS SOC 455 Sociology of the Environment**

3 cr.

Socio-cultural foundations of our relationship with the natural environment; relationship between environmental degradation and social, political, and economic structures; beliefs and values about the environment and their expression in various forms of environmentalism and environmental movements. Also analyzes the presentation of environmental issues in cultural, political, and scientific domains.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## CGS Spanish (CGS SPA)

### CGS SPA 101 First Semester Spanish

4 cr.

For students who have had no previous training in the language. Emphasis on reading, writing, listening, and speaking in Spanish. Classes also may include cultural studies of Spain and Latin America.

**Prerequisites:** none.

**Course Rules:** Field trip may be required.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS SPA 101X First Semester Spanish

4 cr.

For students who have had no previous training in the language. Emphasis on reading, writing, listening, and speaking in Spanish. Classes also may include cultural studies of Spain and Latin America.

**Prerequisites:** none.

**Course Rules:** Field trip may be required.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS SPA 102 Second Semester Spanish

4 cr.

This course is a continuation of CGS SPA 101. This course integrates cultural studies of Spanish-speaking countries while emphasizing reading, writing, listening, and speaking in Spanish.

**Prerequisites:** CGS SPA 101 or requisite placement test score or consent of instructor.

**Course Rules:** Field trip may be required.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS SPA 102X Second Semester Spanish

4 cr.

This course is a continuation of CGS SPA 101. This course integrates cultural studies of Spanish-speaking countries while emphasizing reading, writing, listening, and speaking in Spanish.

**Prerequisites:** CGS SPA 101 or requisite placement test score or consent of instructor.

**Course Rules:** Field trip may be required.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS SPA 201 Third Semester Spanish

4 cr.

This course stresses the further development and practice of speaking, reading, writing, and listening for students who have had prior experience with the language. This course emphasizes the study of customs, traditions and ideas frequently associated with Spanish-speaking regions and probes common stereotypes in order to better understand a variety of beliefs about culture in Spanish-speaking regions including the US.

**Prerequisites:** CGS SPA 102 or requisite placement test score or consent of instructor.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS SPA 202 Fourth Semester Spanish

4 cr.

Continuation of CGS SPA 201. Further development and practice of speaking, reading, writing, and listening for students w/ prior experience with the language. Emphasis on customs, traditions and ideas frequently associated with Spanish-speaking regions and probes common stereotypes in order to better understand a variety of beliefs about culture in Spanish-speaking regions including the US.

**Prerequisites:** CGS SPA 201 or requisite placement test score or consent of instructor.

**Course Rules:** Field trip may be required.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS SPA 205 Fourth Semester Spanish

4 cr.

This course is a continuation of SPA CGS 201. This course stresses the further development and practice of speaking, reading, writing, and listening for students who have had prior experience with the language. This course emphasizes the study of customs, traditions and ideas frequently associated with Spanish-speaking regions and probes common stereotypes in order to better understand a variety of beliefs about culture in Spanish-speaking regions including the US.

**Prerequisites:** CGS SPA 201 or requisite placement test score or consent of instructor.

**Course Rules:** Field trip may be required.

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS SPA 225 Conversation & Composition

3 cr.

Development of written and oral proficiency through systematic exposure to modern cultural developments as found in a variety of contemporary texts. Discussion and composition exercises deal with cultural topics introduced by original authors.

**Prerequisites:** CGS SPA 205(P) or CGS SPA 207(P) or consent of instructor.

**General Education Requirements:** HU

**Last Taught:** Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### CGS SPA 226 Conversation and Composition

3 cr.

Continuation of CGS SPA 225.

**Prerequisites:** CGS SPA 225(P) or consent of instructor.

**General Education Requirements:** HU

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CGS SPA 236 The Culture and Civilization of Latin America**

1-3 cr.

Lectures and readings in English on the art, music, architecture, history, and politics, as well as the social and economic problems of Latin-American countries from pre-Columbian times to the present. Latin Americans in the United States and their relationship with Latin America will be examined.

**Prerequisites:** none.**Course Rules:** No knowledge of Spanish required. No foreign language credit.**General Education Requirements:** HU**Last Taught:** Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Chemistry and Biochemistry (CHEM)

**CHEM 100 Chemical Science**

4 cr. Undergraduate.

Introductory course in general inorganic chemistry designed for the student with little or no previous science training. 3 hrs lec, 1 hr dis.

**Prerequisites:** Math 105(C) or Math 108(C) or Math 116(C) or Level 30 on Math Placement Test.**Course Rules:** Not open for cr to students who have cr in Chem 102.**General Education Requirements:** NS**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 101 Chemical Science**

5 cr. Undergraduate.

Introductory chemistry with an emphasis on organic chemistry and selected aspects of general chemistry. 3 hrs lec, 2 hrs lab, 1 hr dis.

**Prerequisites:** a score of 1 on the chem placement test, and one of the following: MATH 105(C), MATH 108(C), Math 116(C) or Level 30 on Math Placement Test; or a grade of C or better in CHEM 100(P).**Course Rules:** Designed for students in nursing and related fields. Not open for cr to students who have cr in CHEM 341 or CHEM 343; may not serve as a prerequisite for CHEM 341 or CHEM 343.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 102 General Chemistry**

5 cr. Undergraduate.

Introductory college chemistry. Modern fundamental principles of chemistry, with emphasis on the chemistry of nonmetals. 3 hrs lec, 3 hrs lab, 1 hr dis.

**Prerequisites:** score of 1 on chem placement test, & Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM Math 105 or 108; or min grade C in Chem 100(P).**General Education Requirements:** NS+**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 103 Survey of Biochemistry**

5 cr. Undergraduate.

The nature of materials of biological systems. 3 hrs lec, 1 hr dis, 3 hrs lab.

**Prerequisites:** grade of C or better in Chem 101(P).**Course Rules:** Designed for students in nursing and related fields. Not open for cr to chem majors; may not serve as a prereq for Chem 341 or 343.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 104 General Chemistry and Qualitative Analysis**

5 cr. Undergraduate.

Continuation of Chem 102. 3 hrs lec, 3 hrs lab, 1 hr dis.

**Prerequisites:** grade C or better in Chem 102(P).**General Education Requirements:** NS+**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 105 General Chemistry for Engineering**

5 cr. Undergraduate.

Modern principles of chemistry with emphasis on applications in engineering fields.

**Prerequisites:** a score of 1 on chemistry placement test; level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than MATH 105 or MATH 108; or a grade of C in CHEM 100(P).**Course Rules:** Not open to students with credit in CHEM 104(ER). Does not fulfill the prerequisite for CHEM 221, CHEM 341, or CHEM 343.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 106 Chemistry in the World Around Us--Chemistry for the Non-Science Major**

3 cr. Undergraduate.

An introduction to chemistry with an emphasis on outlining how chemistry affects our everyday lives. 3 hrs lec, 2 hrs lab/dis.

**Prerequisites:** none.**Course Rules:** Intended for non-science majors and minors; does not carry cr toward chem or biochem majors or chem minor.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 113 General Chemistry**

4 cr. Undergraduate.

Introductory college chemistry. Modern fundamental principles of chemistry, with emphasis on the chemistry of nonmetals. 3 hrs lec, 1 hr dis.

**Prerequisites:** score of 1 on chem placement test, & Level 30 on Math Placement Test or a satisfactory grade in any appropriate math course equal to or greater than UWM MATH 105 or MATH 108; or min grade C in CHEM 100(P).**Course Rules:** CHEM 113 and CHEM 114 are equivalent to CHEM 102. A student may not earn credit in both CHEM 113 and CHEM 114, and also CHEM 102.**General Education Requirements:** NS+**Last Taught:** Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CHEM 115 General Chemistry and Qualitative Analysis**

4 cr. Undergraduate.

Continuation of CHEM 102. 3 hrs lec, 1 hr dis.

**Prerequisites:** a grade C or better in CHEM 102(P).

**Course Rules:** CHEM 115 and CHEM 116 are equivalent to CHEM 104. A student may not earn credit in both CHEM 115 and CHEM 116, and also CHEM 104.

**General Education Requirements:** NS+

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 116 General Chemistry and Qualitative Analysis Laboratory**

1 cr. Undergraduate.

Continuation of CHEM 102. 3 hrs lab.

**Prerequisites:** a grade C or better in CHEM 102(P).

**Course Rules:** CHEM 115 and CHEM 116 are equivalent to CHEM 104. A student may not earn credit in both CHEM 115 and CHEM 116, and also CHEM 104.

**General Education Requirements:** NS+

**Last Taught:** Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 185 Basic Chemistry for Teachers**

3 cr. Undergraduate.

Chemical models, atoms, and molecules; properties of elements; useful chemical reactions; application to elementary education classrooms. 2 hrs lec; 2 hrs lab/dis.

**Prerequisites:** Math 176(P) or cons instr.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 194 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** NS

**Last Taught:** Fall 2020, Fall 2019, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 210 Introduction to Fermentation Chemistry**

3 cr. Undergraduate.

Concepts of chemistry in the context of fermentation. The ideas of mass balance, equilibrium, rate and catalysis are applicable to fermentation.

**Prerequisites:** none.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 221 Elementary Quantitative Analysis**

4 cr. Undergraduate.

Introduction to modern chemical analysis, including volumetric, gravimetric, electrochemical, and chromatographic methods. 2 hrs lec, 6 hrs lab.

**Prerequisites:** a grade of C or better in Chem 104(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 281 Dead Men Do Tell Tales: An Introduction to Forensic Science**

3 cr. Undergraduate.

A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.

**Prerequisites:** none.

**Course Rules:** ANTHRO 281, BMS 281, CHEM 281, and CRM JST 281 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 285 Medicolegal Death Investigation**

3 cr. Undergraduate.

Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.

**Prerequisites:** none.

**Course Rules:** Jointly-offered with & counts as repeat of Anthro/BMS(C L Sci)/Crm Jst 285.

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 289 Internship in Chemistry, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of chemistry in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in chem; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Summer 2018, Fall 2010, Spring 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2018, Spring 2017, Spring 2010, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Last Taught:** Spring 2018, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 311 Introduction to Inorganic Chemistry**

3 cr. Undergraduate.

Inorganic chemistry; solid state chemistry, coordination chemistry, main-group chemistry.

**Prerequisites:** grade of C or better in Chem 104(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 321 Introduction to Environmental Chemistry**

3 cr. Undergraduate.

Fundamental concepts in environmental chemistry: chemical speciation, transport, and fate of pollutants; dynamics of pollutants in the environment; case studies of environmental contamination.

**Prerequisites:** grade of C or better in CHEM 104(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 341 Introductory Survey of Organic Chemistry**

3 cr. Undergraduate.

Intended for students who expect to take only one semester of organic chemistry.

**Prerequisites:** grade of C or better in Chem 104(P); conc reg in Chem 342(R).**Course Rules:** Not open for cr to students who have credit in Chem 343.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 342 Introductory Organic Chemistry Laboratory**

2 cr. Undergraduate.

6 hrs lab.

**Prerequisites:** a grade of C or better in Chem 104(P); conc reg in 341(R).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 343 Organic Chemistry**

3 cr. Undergraduate.

For students who intend to take more than one semester of organic chemistry.

**Prerequisites:** grade of C or better in Chem 104(P).**Course Rules:** Not open for cr to students who have credit in Chem 341.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 344 Organic Chemistry Laboratory**

2 cr. Undergraduate.

6 hr lab.

**Prerequisites:** grade C or better Chem 343(P); conc reg Chem 345(R).**Course Rules:** Not open for cr to students who have credit in Chem 342.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 345 Organic Chemistry**

3 cr. Undergraduate.

Continuation of Chem 343.

**Prerequisites:** grade of C or better in Chem 343(P); conc reg Chem 344(R).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 381 Honors Seminar**

3 cr. Undergraduate.

Discussion of aspects of the relationship of chemistry and society.

**Prerequisites:** soph st; Honors 200(P); cons Honors College dir; add'l prereq possible depending on specific topic.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**General Education Requirements:** NS**Last Taught:** Fall 2023, Spring 2023, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 399 Special Chemical Problems:**

1-4 cr. Undergraduate.

Directed study or research on topics selected by the instructor.

**Prerequisites:** Chem 104(P); cons instr.**Course Rules:** May be retaken to 7 cr max.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 481 Criminalistics**

3 cr. Undergraduate.

Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/C L Sci/Crm Jst 281(P); Crm Jst 480(P).**Course Rules:** Anthro 481, Chem 481, BMS(C L Sci) 481, & Crm Jst 481 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 489 Internship in Chemistry, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of chemistry in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Chem; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Last Taught:** Spring 2018, Spring 2017, Summer 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2008, Spring 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2008, Spring 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 501 Introduction to Biochemistry**

3 cr. Undergraduate/Graduate.

The chemistry of biological systems.

**Prerequisites:** jr st; grade of C or better in Chem 341(P) or 345(P).**Course Rules:** Does not count toward graduate degree in chemistry.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 501G Introduction to Biochemistry**

3 cr. Undergraduate/Graduate.

The chemistry of biological systems.

**Prerequisites:** jr st; grade of C or better in Chem 341(P) or 345(P).**Course Rules:** Does not count toward graduate degree in chemistry.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 502 Development of Modern Chemistry**

2 cr. Undergraduate/Graduate.

Traces the development of chemistry from ancient to modern times.

**Prerequisites:** jr st; a grade of C or better in Chem 221(P) or 223(P), & Chem 341(P) or 343(P).**Last Taught:** Spring 2020, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 502G Development of Modern Chemistry**

2 cr. Undergraduate/Graduate.

Traces the development of chemistry from ancient to modern times.

**Prerequisites:** jr st; a grade of C or better in Chem 221(P) or 223(P), & Chem 341(P) or 343(P).**Last Taught:** Spring 2020, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 511 Inorganic Chemistry**

3 cr. Undergraduate/Graduate.

Introduction to theoretical principles and descriptive chemistry of the elements.

**Prerequisites:** jr st & grade of C or better in Chem 562(P); or grad st.**Course Rules:** Does not count toward graduate degree in Chemistry.**Last Taught:** Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 511G Inorganic Chemistry**

3 cr. Undergraduate/Graduate.

Introduction to theoretical principles and descriptive chemistry of the elements.

**Prerequisites:** jr st & grade of C or better in Chem 562(P); or grad st.**Course Rules:** Does not count toward graduate degree in Chemistry.**Last Taught:** Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 524 Instrumental Analysis**

3 cr. Undergraduate/Graduate.

Chemical equilibria, separations, and theory and practice of instrumental measurements.

**Prerequisites:** jr st; grade of C or better in Chem 221(P) or 223(P).**Course Rules:** Does not count toward a graduate degree in chemistry.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 524G Instrumental Analysis**

3 cr. Undergraduate/Graduate.

Chemical equilibria, separations, and theory and practice of instrumental measurements.

**Prerequisites:** jr st; grade of C or better in Chem 221(P) or 223(P).**Course Rules:** Does not count toward a graduate degree in chemistry.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 541 Bioprocess Chemical Engineering**

3 cr. Undergraduate.

Technical aspects of biotechnology and fermentation based on reactor design and function.

**Prerequisites:** jr st; grade of C or better in Chem 501(P).**Last Taught:** Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 543 Bioproduct Regulatory Protocols Laboratory**

3 cr. Undergraduate/Graduate.

Experiments in the production, purification, and characterization of biopharmaceuticals for the treatment of human disease in compliance with ICH and FDA guidelines.

**Prerequisites:** jr st; Chem/Bio Sci 537(P); Chem 541(P); Chem 501(P).**Last Taught:** Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 543G Bioproduct Regulatory Protocols Laboratory**

3 cr. Undergraduate/Graduate.

Experiments in the production, purification, and characterization of biopharmaceuticals for the treatment of human disease in compliance with ICH and FDA guidelines.

**Prerequisites:** jr st; Chem/Bio Sci 537(P); Chem 541(P); Chem 501(P).**Last Taught:** Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 560 Biophysical Chemistry**

3 cr. Undergraduate/Graduate.

General course designed for majors in fields other than chemistry.

**Prerequisites:** junior standing, a grade of C or better in CHEM 104(P), and MATH 211(P) or equivalent.**Course Rules:** Does not count toward a graduate degree in chemistry.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 560G Biophysical Chemistry**

3 cr. Undergraduate/Graduate.

General course designed for majors in fields other than chemistry.

**Prerequisites:** junior standing, a grade of C or better in CHEM 104(P), and MATH 211(P) or equivalent.**Course Rules:** Does not count toward a graduate degree in chemistry.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 561 Physical Chemistry I**

3 cr. Undergraduate/Graduate.

Primary focus on chemical thermodynamics.

**Prerequisites:** jr st; grades of C or better in Chem 104(P), Physics 210(P) & 215(P), & Math 233(P); ElecEng 234(R) or Math 234(R).**Course Rules:** Does not count toward a graduate degree in chemistry.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 561G Physical Chemistry I**

3 cr. Undergraduate/Graduate.

Primary focus on chemical thermodynamics.

**Prerequisites:** jr st; grades of C or better in Chem 104(P), Physics 210(P) & 215(P), & Math 233(P); ElecEng 234(R) or Math 234(R).**Course Rules:** Does not count toward a graduate degree in chemistry.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 562 Physical Chemistry II**

3 cr. Undergraduate/Graduate.

Continuation of Chem 561; course content is largely kinetics, statistical mechanics, and quantum chemistry.

**Prerequisites:** jr st; grade of C or better in Chem 561(P).**Course Rules:** Does not count toward a graduate degree in chemistry.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 562G Physical Chemistry II**

3 cr. Undergraduate/Graduate.

Continuation of Chem 561; course content is largely kinetics, statistical mechanics, and quantum chemistry.

**Prerequisites:** jr st; grade of C or better in Chem 561(P).**Course Rules:** Does not count toward a graduate degree in chemistry.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 563 Physical Chemistry Laboratory**

1-2 cr. Undergraduate/Graduate.

**Prerequisites:** jr st & grade of C or better in Chem 221(P) or 223(P) & Chem 561(P).**Course Rules:** Carries grad cr for students other than chem students.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 563G Physical Chemistry Laboratory**

1-2 cr. Undergraduate/Graduate.

**Prerequisites:** jr st & grade of C or better in Chem 221(P) or 223(P) & Chem 561(P).**Course Rules:** Carries grad cr for students other than chem students.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 582 Advanced Chemistry Laboratory I**

2 cr. Undergraduate.

Modern advanced chemical synthesis techniques.

**Prerequisites:** grade of C or better in Chem 344(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 584 Advanced Chemistry Laboratory II**

2 cr. Undergraduate.

Advanced laboratory for analysis and characterization of chemical compounds.

**Prerequisites:** grade of C or better in Chem 344(P), 524(P), & 563(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 585 Internship in Forensic Toxicology**

1-3 cr. Undergraduate.

Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.**Course Rules:** Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2014, Fall 2005, Spring 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 589 Internship in Death Investigation**

1-3 cr. Undergraduate.

Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.

**Prerequisites:** jr st; admis to Forensic Sci certif prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver.**Course Rules:** Anthro 589, Chem 589, BMS(C L Sci) 589, & Crm Jst 589 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2023, Fall 2021, Spring 2012, Fall 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 594 Internship in Forensic Science**

1-3 cr. Undergraduate.

On-site shadowing of evidence analyst at State Crime Laboratory.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.**Course Rules:** Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 599 Special Projects in Chemistry**

3-5 cr. Undergraduate/Graduate.

Directed study or research on subjects selected by the instructor. For further information consult dept chair.

**Prerequisites:** jr st; cons instr.**Course Rules:** May be retaken to 7 cr max. Does not count toward a graduate degree in chemistry.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 599G Special Projects in Chemistry**

3-5 cr. Undergraduate/Graduate.

Directed study or research on subjects selected by the instructor. For further information consult dept chair.

**Prerequisites:** jr st; cons instr.**Course Rules:** May be retaken to 7 cr max. Does not count toward a graduate degree in chemistry.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 601 Biochemistry: Protein Structure and Function**

3 cr. Undergraduate/Graduate.

Cellular synthesis of proteins, protein structure/function, enzyme mechanisms.

**Prerequisites:** jr st; grades of C or better in Chem 345(P), 501(P), & either 560(C) or 562(C).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 601G Biochemistry: Protein Structure and Function**

3 cr. Undergraduate/Graduate.

Cellular synthesis of proteins, protein structure/function, enzyme mechanisms.

**Prerequisites:** jr st; grades of C or better in Chem 345(P), 501(P), & either 560(C) or 562(C).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 602 Biochemistry: Cellular Processes**

3 cr. Undergraduate/Graduate.

Biosynthesis and metabolism of nucleic acids, structure and replication of DNA, control of gene expression, signal transduction.

**Prerequisites:** jr st; grade of C or better in Chem 501(P) or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 602G Biochemistry: Cellular Processes**

3 cr. Undergraduate/Graduate.

Biosynthesis and metabolism of nucleic acids, structure and replication of DNA, control of gene expression, signal transduction.

**Prerequisites:** jr st; grade of C or better in Chem 501(P) or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 603 Introduction to Biochemistry Laboratory**

2 cr. Undergraduate/Graduate.

Experiments in biological preparations, colorimetry, and chromatography.

**Prerequisites:** junior standing; a grade of C or better in CHEM 221(P) or CHEM 223(P); a grade of C or better in CHEM 501(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 603G Introduction to Biochemistry Laboratory**

2 cr. Undergraduate/Graduate.

Experiments in biological preparations, colorimetry, and chromatography.

**Prerequisites:** junior standing; a grade of C or better in CHEM 221(P) or CHEM 223(P); a grade of C or better in CHEM 501(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 604 Biochemistry: Metabolism**

3 cr. Undergraduate/Graduate.

Glycolysis, photosynthesis, biosynthesis, metabolism.

**Prerequisites:** jr st; grade of C or better in Chem 501(P) or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 604G Biochemistry: Metabolism**

3 cr. Undergraduate/Graduate.

Glycolysis, photosynthesis, biosynthesis, metabolism.

**Prerequisites:** jr st; grade of C or better in Chem 501(P) or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 611 Physical Inorganic Chemistry**

3 cr. Undergraduate/Graduate.

Physical and theoretical aspects of inorganic chemistry (spectroscopy, crystallography, kinetic and theoretical methods) are discussed.

**Prerequisites:** CHEM 311(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 611G Physical Inorganic Chemistry**

3 cr. Undergraduate/Graduate.

Physical and theoretical aspects of inorganic chemistry (spectroscopy, crystallography, kinetic and theoretical methods) are discussed.

**Prerequisites:** CHEM 311(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 612 Transition Metal and Organometallic Chemistry**

3 cr. Undergraduate/Graduate.

Advanced survey of elements, emphasizing transition elements and organometallic species. Main group organometallics and actinides and lanthanides briefly discussed.

**Prerequisites:** Chem 511(P) or cons instr.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 612G Transition Metal and Organometallic Chemistry**

3 cr. Undergraduate/Graduate.

Advanced survey of elements, emphasizing transition elements and organometallic species. Main group organometallics and actinides and lanthanides briefly discussed.

**Prerequisites:** Chem 511(P) or cons instr.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 613 Main Group Chemistry**

3 cr. Undergraduate/Graduate.

Advanced survey of metallic and non-metallic main group elements.

**Prerequisites:** jr st & grade of C or better in Chem 511(P); or grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 613G Main Group Chemistry**

3 cr. Undergraduate/Graduate.

Advanced survey of metallic and non-metallic main group elements.

**Prerequisites:** jr st & grade of C or better in Chem 511(P); or grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 614 Bio-Inorganic Chemistry**

3 cr. Undergraduate/Graduate.

Inorganic chemistry for biological systems; metalloproteins; coordination chemistry in enzymes.

**Prerequisites:** jr st; grade of C or better in Chem 511(P).**Last Taught:** Spring 2012, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 614G Bio-Inorganic Chemistry**

3 cr. Undergraduate/Graduate.

Inorganic chemistry for biological systems; metalloproteins; coordination chemistry in enzymes.

**Prerequisites:** jr st; grade of C or better in Chem 511(P).**Last Taught:** Spring 2012, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 628 Nuclear and Radiochemistry**

3 cr. Undergraduate/Graduate.

Survey of modern nuclear and radiochemistry; emphasis on the interactions of radiation with matter and application in radiation detection and measurement.

**Prerequisites:** jr st.; grades of B or better in Chem 524(P), 561(P), 562(P), & 563(P) or equiv; cons instr for undergrads.**Course Rules:** Counts as repeat of Chem 726 w/same topic.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 628G Nuclear and Radiochemistry**

3 cr. Undergraduate/Graduate.

Survey of modern nuclear and radiochemistry; emphasis on the interactions of radiation with matter and application in radiation detection and measurement.

**Prerequisites:** jr st.; grades of B or better in Chem 524(P), 561(P), 562(P), & 563(P) or equiv; cons instr for undergrads.**Course Rules:** Counts as repeat of Chem 726 w/same topic.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 630 Computational Chemistry**

3 cr. Undergraduate/Graduate.

Computer modeling techniques for molecular systems.

**Prerequisites:** jr st; grade of C or better in Chem 562(P) or cons instr.**Last Taught:** Fall 2014, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 630G Computational Chemistry**

3 cr. Undergraduate/Graduate.

Computer modeling techniques for molecular systems.

**Prerequisites:** jr st; grade of C or better in Chem 562(P) or cons instr.**Last Taught:** Fall 2014, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 640 Advanced Survey of Organic Chemistry**

3 cr. Undergraduate/Graduate.

**Prerequisites:** jr st; a grade of C or better in Chem 345(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 640G Advanced Survey of Organic Chemistry**

3 cr. Undergraduate/Graduate.

**Prerequisites:** jr st; a grade of C or better in Chem 345(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 647 Physical Methods of Organic Chemistry**

3 cr. Undergraduate/Graduate.

Application of modern instrumental methods to the separation, analysis, and identification of organic compounds.

**Prerequisites:** jr st, a grade of C or better in Chem 345(P), 346(P), 524(P).**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 647G Physical Methods of Organic Chemistry**

3 cr. Undergraduate/Graduate.

Application of modern instrumental methods to the separation, analysis, and identification of organic compounds.

**Prerequisites:** jr st, a grade of C or better in Chem 345(P), 346(P), 524(P).**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 661 Intermediate Chemical Thermodynamics**

3 cr. Undergraduate/Graduate.

Laws of thermodynamics equilibria between phases. Introductory statistical thermodynamics. Thermodynamic properties of gases, solids, and solutions.

**Prerequisites:** sr st, a grade of C or better in Chem 562(P).**Last Taught:** Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 661G Intermediate Chemical Thermodynamics**

3 cr. Undergraduate/Graduate.

Laws of thermodynamics equilibria between phases. Introductory statistical thermodynamics. Thermodynamic properties of gases, solids, and solutions.

**Prerequisites:** sr st, a grade of C or better in Chem 562(P).**Last Taught:** Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 662 Chemical Kinetics and Dynamics**

3 cr. Undergraduate/Graduate.

Present understanding of reaction kinetics and dynamics. Topics range from experimental methods for kinetics measurements to microscopic theories of reaction rates.

**Prerequisites:** sr st; grade of C or better in Chem 562(P).**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 662G Chemical Kinetics and Dynamics**

3 cr. Undergraduate/Graduate.

Present understanding of reaction kinetics and dynamics. Topics range from experimental methods for kinetics measurements to microscopic theories of reaction rates.

**Prerequisites:** sr st; grade of C or better in Chem 562(P).**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 690 Scientist Career Transitions Seminar**

1 cr. Undergraduate.

Preparation of science undergraduates for transition to science-related employment internships.

**Prerequisites:** sophomore standing; CHEM 344(C) and CHEM 345(C) or equivalent; 3.000 GPA in science courses; consent of instructor.**Course Rules:** Counts as repeat of CHEM 489 with similar topic.**Last Taught:** Fall 2023, Spring 2018, Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 691 Senior Research**

1-4 cr. Undergraduate.

Introduction to chemical research. Independent and original study done under the direction of a staff member; communication of results. Recom for Chem majors.

**Prerequisites:** sr st; cons instr.**Course Rules:** Chem 691 & 692 may be retaken to combined 6 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 692 Senior Thesis**

2-6 cr. Undergraduate.

Introduction to chemical research. Independent and original study done under the direction of a staff member. Recom for chem majors.

**Prerequisites:** sr st; grade of C or better in English 102(P) or score at level 4 on EPT; cons instr.

**Course Rules:** Chem 691 & 692 may be retaken to combined 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 697 Senior Seminar**

1 cr. Undergraduate.

**Prerequisites:** sr st.

**Last Taught:** Fall 2016, Fall 2015, Spring 2007, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 701 Topics in Biochemistry:**

2-4 cr. Graduate.

Selected topics in biochemistry. Two topics, each for 2 cr, will last 1/2 of the semester. Students may enroll in either (2 cr) or both (4 cr). The 3 cr option offers a more complete coverage of a single topic for a full semester.

**Prerequisites:** grad st; grade of C or better in Chem 501(P) or 601(P).

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 710 Advanced Survey of Inorganic Chemistry**

3 cr. Graduate.

Graduate-level treatment of theoretical principles and descriptive chemistry of the elements.

**Prerequisites:** grad st.

**Last Taught:** Spring 2010, Fall 2008, Fall 2007, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 711 Topics in Inorganic Chemistry:**

3 cr. Graduate.

Selected topics of current research interest in inorganic chemistry are discussed in detail.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 724 Electrochemistry**

3 cr. Graduate.

Surey of modern electrochemical theory and applications to measurement of solution concentrations, rate constants, thermodynamic quantities, transport properties, and adsorption phenomena.

**Prerequisites:** grad st; grade of C or better in Chem 524(P) or 621(P).

**Last Taught:** Fall 2009, Fall 2005, Fall 2003, Spring 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 726 Topics in Analytical Chemistry:**

3 cr. Graduate.

Selected topics which reflect current advances in analytical chemistry.

**Prerequisites:** grad st.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Spring 2023, Spring 2017, Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 731 Topics in Chemistry Education Research:**

3 cr. Graduate.

Introductory course in qualitative research methods using chemistry education and discipline-based education research as a context.

**Prerequisites:** graduate standing.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 740 Advanced Organic Chemistry-Methods in Synthetic Chemistry**

3 cr. Graduate.

Discussion of name reactions and other synthetic methods of preparative significance used in organic syntheses. Introduction and modification of functional groups. Recent examples of application from modern organic chemistry.

**Prerequisites:** grad st; a grade of C or better in Chem 345(P).

**Last Taught:** Spring 2009, Spring 2006, Spring 2003, Spring 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 741 Topics in Organic Chemistry:**

2-3 cr. Graduate.

Current topics in organic chemistry, e.g., organometallic compounds, bioorganic chemistry, non-covalent interactions, reaction mechanisms, alkaloid total synthesis or photochemistry. Offered w/1 topic (3cr), w/2 (2cr ea); if two, take one or both.

**Prerequisites:** grad st; grade of C or better in Chem 345(P).

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2023, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 743 Medicinal Chemistry: Drug Discovery/Lead Optimization & DNA as Drug Targets**

3 cr. Graduate.

Major principles of drug discovery; focus on nucleic acids as drug targets.

**Prerequisites:** grad st.

**Course Rules:** Counts as repeat of Chem 741 w/ Medicinal Chemistry I topic.

**Last Taught:** Fall 2021, Fall 2020, Fall 2018, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 744 Medicinal Chemistry: Pharmacokinetics/Enzymes & Receptors as Drug Targets**

3 cr. Graduate.

Principles of drug development; focus on protein drug targets.

**Prerequisites:** grad st.

**Course Rules:** Counts as repeat of Chem 741 w/ Medicinal Chemistry II subtitle.

**Last Taught:** Fall 2023, Spring 2021, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 748 Physical Organic Chemistry**

3 cr. Graduate.

Application of kinetics and other physical principles to the determination of reaction mechanisms.

**Prerequisites:** grad st; a grade of C or better in Chem 562(P) & 640(P).

**Last Taught:** Fall 2019, Fall 2017, Spring 2013, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 762 Topics in Physical Chemistry:**

3 cr. Graduate.

In-depth discussion of selected topics of current interest in modern physical chemistry.

**Prerequisites:** grad st.**Course Rules:** Retakeable with change in topic to 9 cr max.**Last Taught:** Fall 2023, Fall 2022, Spring 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 765 Statistical Thermodynamics**

3 cr. Graduate.

Fundamental principles of statistical mechanics, with applications to topics of physiochemical interest.

**Prerequisites:** grad st; grade of C or better in Chem 661(P).**Last Taught:** Spring 2023, Spring 2022, Fall 2019, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 767 Basic Quantum Chemistry**

3 cr. Graduate.

Basic postulates of quantum mechanics and consequences. Exact solutions for simple systems. Approximation methods for complex systems. Group theory and applications in organic, inorganic, and physical chemistry.

**Prerequisites:** grad st; a grade of C or better in Chem 562(P), 564(P), & Math 234(P).**Last Taught:** Spring 2020, Spring 2018, Spring 2016, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 769 Surface Chemistry II**

3 cr. Graduate.

Discussion of kinetic methods of studying reaction mechanisms with particular emphasis on catalytic reactions.

**Prerequisites:** grad st; grade of C or better in Chem 768(P).**Last Taught:** Spring 2019, Spring 2017, Spring 2015, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 780 Modern Industrial Organic Chemistry**

3 cr. Graduate.

Organic chemical processes-comprehensive emphasis on chemistry, polymers (preparation, properties, application), energy aspects, raw material supplies, impact on nation's and world's economics.

**Prerequisites:** grad st.**Course Rules:** Recommended for minor in polymer chem.**Last Taught:** Spring 2017, Spring 2013, Spring 2011, Spring 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 781 Pulsed NMR Spectroscopy Theory and Practice**

3 cr. Graduate.

Discussion and hands on practice of modern FT NMR approaches applied to analysis of chemical structure and dynamics in organic, inorganic, and biochemical molecules.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 782 Liquid Chromatography-Mass Spectrometry Fundamentals and Applications**

3 cr. Graduate.

Discussion and hands on practice of modern mass spectrometry, with a focus on liquid chromatography/mass spectrometry (LC/MS) and LC/tandem MS (LC/MS/MS), as well as ICP-MS.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 798 Scientific Glassblowing**

1 cr. Graduate.

Techniques in design and maintenance of scientific glassware including low pressure systems together with consideration of the chemical structure and properties of common glasses.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 900 Chemistry Colloquium**

0 cr. Graduate.

Weekly lectures on current research by members of the department and visiting scientists.

**Prerequisites:** grad st.**Course Rules:** Fee assessed for 1 cr. Required of all Chem grad students.**Last Taught:** Spring 2012, Fall 2011, Spring 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 912 Graduate Seminar**

1 cr. Graduate.

Research problems in chemistry. Weekly papers and reports.

**Prerequisites:** grad st.**Course Rules:** Required of all candidates for advanced degree.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 931 Advanced Seminar in Analytical Chemistry**

1 cr. Graduate.

Weekly discussions and reports on recent developments and current progress in analytical chemistry. Topics will differ each semester, reflecting current work of particular interest.

**Prerequisites:** grad st & enroll in Chem 993(C).**Course Rules:** Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CHEM 932 Advanced Seminar in Biochemistry**

1 cr. Graduate.

Weekly discussions and reports on recent developments and current progress in biochemistry. Topics will differ each semester, reflecting current work of particular interest.

**Prerequisites:** grad st & enroll in Chem 996(C).**Course Rules:** Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CHEM 933 Advanced Seminar in Inorganic Chemistry**

1 cr. Graduate.

Weekly discussions and reports on recent developments and current progress in inorganic chemistry. Topics will differ each semester, reflecting current work of particular interest.

**Prerequisites:** grad st & enroll in Chem 994(C).

**Course Rules:** Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 934 Advanced Seminar in Organic Chemistry**

1 cr. Graduate.

Weekly discussions and reports on recent developments and current progress in organic chemistry. Topics will differ each semester, reflecting current work of particular interest.

**Prerequisites:** grad st & enroll in Chem 990(C).

**Course Rules:** Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 935 Advanced Seminar in Physical Chemistry**

1 cr. Graduate.

Weekly discussions and reports on recent developments and current progress in physical chemistry. Topics will differ each semester, reflecting current work of particular interest.

**Prerequisites:** grad st & enroll in Chem 992.

**Course Rules:** Retakable to 9 cr max. No more than 9 cr may be accumulated in courses numbered 931-935.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 990 Research: Organic**

1-9 cr. Graduate.

**Prerequisites:** grad st.

**Course Rules:** Retakable.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 991 Research: Chemical Education**

1-9 cr. Graduate.

Research in chemical education.

**Prerequisites:** grad st

**Course Rules:** Retakable.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 992 Research: Physical**

1-9 cr. Graduate.

**Prerequisites:** grad st.

**Course Rules:** Retakable.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 993 Research: Analytical**

1-9 cr. Graduate.

**Prerequisites:** grad st.

**Course Rules:** Retakable.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 994 Research: Inorganic**

1-9 cr. Graduate.

**Prerequisites:** grad st.

**Course Rules:** Retakable.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHEM 996 Research: Biochemical**

1-9 cr. Graduate.

**Prerequisites:** grad st.

**Course Rules:** Retakable.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Chinese (CHINESE)

**CHINESE 101 First Semester Chinese**

5 cr. Undergraduate.

Beginning Chinese for students with no previous knowledge of the language.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 102 Second Semester Chinese**

5 cr. Undergraduate.

Continuation of Chinese 101(Linguis 121).

**Prerequisites:** Chinese 101(Linguis 121)(NP). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 150 Contemporary Chinese Society and Culture**

3 cr. Undergraduate.

Economics, politics, society, people, culture, and the environment in contemporary Chinese life. Representation, interpretations, and practices of Chinese cultures, traditions, and customs.

**Prerequisites:** none.

**Course Rules:** In English.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 160 A Taste of China: Learning Chinese Culture and Society through Cuisine**

3 cr. Undergraduate.

Cultural, historical, geographical, and sociological influences on Chinese cuisine.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific humanities topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 197 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 199 Independent Study**

1-3 cr. Undergraduate.

Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 200 Chinese Calligraphy**

3 cr. Undergraduate.

History, development, aesthetics, and appreciation of Chinese calligraphy; in-class, hands-on practice in producing calligraphy; aspects of the fascinating cultural heritage of China.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 201 Third Semester Chinese**

5 cr. Undergraduate.

Continuation of Chinese 102(Linguis 122).

**Prerequisites:** Chinese 102(Linguis 122)(NP) or equiv.Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 202 Fourth Semester Chinese**

5 cr. Undergraduate.

Continuation of Chinese 201(Linguis 221).

**Prerequisites:** Chinese 201(Linguis 221)(NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 220 Introduction to Chinese Poetry**

3 cr. Undergraduate.

Survey of Chinese poetry and poetics from beginning to the eighteenth century, with opportunity to practice composing poetry. Taught in English. All readings in translation. Knowledge of Chinese not required.

**Prerequisites:** none.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 277 Chinese Discussion Section:**

1-2 cr. Undergraduate.

Discussion in Chinese, designed to broaden perspectives, improve language skills. Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc).

**Prerequisites:** Chinese 202(Linguis 223)(P) or cons instr.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 289 Internship in Chinese, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Chinese in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** 2.50 gpa; cons supervising faculty member.

**Course Rules:** May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Fall 2022, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 301 Fifth Semester Chinese**

4 cr. Undergraduate.

Continuation of Chinese 202(Linguis 223).

**Prerequisites:** Chinese 202(Linguis 223)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 302 Sixth Semester Chinese**

4 cr. Undergraduate.

Continuation of Chinese 301(Linguis 321).

**Prerequisites:** Chinese 301(Linguis 321)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 320 Contemporary Chinese Societies through Film**

3 cr. Undergraduate.

Film as a context for examining issues in contemporary societies of China and Taiwan; emphasis on development of language proficiency.

**Prerequisites:** Chinese 202(P) or equiv.

**Last Taught:** Fall 2020, Fall 2018, Spring 2017, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 330 Chinese Language and Culture**

3 cr. Undergraduate.

Chinese language and contemporary culture through various forms of media.

**Prerequisites:** Chinese 202(P).

**Last Taught:** Spring 2021, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 343 Chinese Martial Arts Fiction**

3 cr. Undergraduate.

Martial arts genre fiction from various periods of Chinese history; analysis of the philosophical and societal factors that shaped the genre.

**Prerequisites:** junior standing and completion of OWC-A GER or consent of instructor.

**General Education Requirements:** HU, OWCB

**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 353 Popular Culture, Entertainment, and China's Modernization**

3 cr. Undergraduate.

Survey of China's modernization through the lens of popular culture and entertainment in global context; inquiry into China's unique roles in enriching the theory and practice of 'popular culture'.

**Prerequisites:** junior or senior and completion of OWC-A.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 397 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 401 Seventh Semester Chinese**

3 cr. Undergraduate.

Continuation of Chinese 302(Linguis 322).

**Prerequisites:** Chinese 302(Linguis 322)(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 402 Eighth Semester Chinese**

3 cr. Undergraduate.

Continuation of Chinese 401.

**Prerequisites:** Chinese 401(P). Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Last Taught:** Spring 2022, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 441 Business Chinese**

3 cr. Undergraduate.

Chinese in cultural contexts of actual business situations; commonly-used commercial terms, phrases, sentence patterns, and cultural background.

**Prerequisites:** Chinese 302(Linguis 322)(P).

**Last Taught:** Spring 2019, Spring 2016, Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 489 Internship in Chinese, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles to Chinese in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.50 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2019, Summer 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 597 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 597G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 697 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 697G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CHINESE 699 Advanced Independent Study**

1-6 cr. Undergraduate.

Advanced level independent work under the supervision of a Chinese studies faculty or academic staff member.

**Prerequisites:** junior standing, 2.0 GPA, and consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic to 12 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Civil & Environmental Engineering (CIV ENG)

**CIV ENG 150 Builders for Civilization and Environment**

3 cr. Undergraduate.

Explores the role of civil engineering in society through the use of case studies, including water and society, bridges, building and transportation.

**Prerequisites:** none.**General Education Requirements:** NS**Last Taught:** Fall 2008, Fall 2007, Fall 2006, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 201 Statics**

3 cr. Undergraduate.

Principles of mechanics force systems, equilibrium structures, distributed forces, centroids and friction.

**Prerequisites:** Math 232(P).**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 202 Dynamics**

3 cr. Undergraduate.

Kinematics and kinetics of particles and rigid bodies with applications of Newton's second law and the principles of work-energy and impulse momentum.

**Prerequisites:** CIV ENG 203(C), MATH 233(C), and PHYSICS 209(P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 203 Introduction to Solid Mechanics**

4 cr. Undergraduate.

Topics in statics and strength of materials, including vector mechanics, equilibrium, structural analysis, internal forces, friction, moment of inertia, centroids, stress, strains, torsion, beam bending, shear and moment diagrams, deflection, and stress transformation.

**Prerequisites:** sophomore standing and MATH 231(C) or (P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 250 Engineering Surveying**

3 cr. Undergraduate.

Horizontal and vertical distance measurement, angles and direction, traverses, errors, control and construction surveys, coordinate systems, land records, and coordinate geometry. Office and field practice.

**Prerequisites:** sophomore standing and MATH 231(C) or (P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 280 Computer Based Engineering Analysis**

3 cr. Undergraduate.

Computer based methods for analysis of data and relationships in engineering practice. Data reliability, experimental design, statistical significance, database systems, curve fitting, interpretation of relationships.

**Prerequisites:** COMPSCI 132(P) or one sem H.S. programming; and MATH 231(P) or MATH 226(P).**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 303 Strength of Materials**

4 cr. Undergraduate.

Stress and strain, torsion, bending of beams, shearing stress in beams, combined stresses, principal stresses, deflections of beams, statically indeterminate members and columns.

**Prerequisites:** CIV ENG 201(P) or CIV ENG 203(C); and MATH 233(C) and PHYSICS 209(P).**Course Rules:** Lec and lab.**Last Taught:** Summer 2021, Spring 2021, Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 311 Introduction to Energy, Environment and Sustainability**

3 cr. Undergraduate.

Energy system and resources, environmental system and resources, global climate change, life cycle assessment, green chemistry and materials, sustainable technologies.

**Prerequisites:** junior standing.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 335 Soil Mechanics**

3 cr. Undergraduate.

Fundamentals of soil mechanics; soil classification; seepage analysis; principle of effective stress; stress distribution; 1-D consolidation theory; shear strength; laboratory experience.

**Prerequisites:** junior standing; admis to an Engineering major;

CIV ENG 203(P) or CIV ENG 303(P); or graduate standing.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 360 Introduction to Structural Analysis**

3 cr. Undergraduate.

Elementary structural analysis techniques; beams, trusses, statically determinate frames, influence lines; analysis of indeterminate structures by superposition and computer analysis.

**Prerequisites:** CIV ENG 203(P) or CIV ENG 303(P); ELECENG 234(C).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 372 Introduction to Structural Design**

4 cr. Undergraduate.

Intro to design of reinforced concrete, steel, and wood structures; material properties; codes; design for flexure, shear and axial loads; connections.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P);

Math 233(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 401 Intermediate Strength of Materials**

3 cr. Undergraduate/Graduate.

Area moment, conjugate beam, deflection due to shear, bending of unsymmetrical beams, curved beams, shear flow, shear center, stresses in open sections, theories of failure, plastic stress-strain relations, plastic deformation, limit analysis, and energy methods.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 401G Intermediate Strength of Materials**

3 cr. Undergraduate/Graduate.

Area moment, conjugate beam, deflection due to shear, bending of unsymmetrical beams, curved beams, shear flow, shear center, stresses in open sections, theories of failure, plastic stress-strain relations, plastic deformation, limit analysis, and energy methods.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 411 Engineering Principles of Water Resources Design**

3 cr. Undergraduate/Graduate.

Principles of hydraulics; steady and non-steady flow in closed conduits and open channels; hydraulic design of structures, surge tanks; hydraulic model studies.

**Prerequisites:** junior standing or above, advanced to Engineering major, and MECHENG 320(C); or graduate standing.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 411G Engineering Principles of Water Resources Design**

3 cr. Undergraduate/Graduate.

Principles of hydraulics; steady and non-steady flow in closed conduits and open channels; hydraulic design of structures, surge tanks; hydraulic model studies.

**Prerequisites:** junior standing or above, advanced to Engineering major, and MECHENG 320(C); or graduate standing.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 412 Applied Hydrology**

3 cr. Undergraduate/Graduate.

Applied hydrology with emphasis on analysis of rainfall, runoff and streamflow processes, hydrologic forecasting and simulation, urban hydrology, hydrologic design and modelling.

**Prerequisites:** junior standing; MATH 233(P) & MECHENG 320(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 412G Applied Hydrology**

3 cr. Undergraduate/Graduate.

Applied hydrology with emphasis on analysis of rainfall, runoff and streamflow processes, hydrologic forecasting and simulation, urban hydrology, hydrologic design and modelling.

**Prerequisites:** junior standing; MATH 233(P) & MECHENG 320(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 413 Environmental Engineering**

3 cr. Undergraduate/Graduate.

Water pollution and control; hazardous substances and risk assessment; water and wastewater treatment systems; air-pollution and emission control; solid wastes; design of treatment facilities.

**Prerequisites:** junior standing and advanced to major in an Engineering major or graduate standing.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 413G Environmental Engineering**

3 cr. Undergraduate/Graduate.

Water pollution and control; hazardous substances and risk assessment; water and wastewater treatment systems; air-pollution and emission control; solid wastes; design of treatment facilities.

**Prerequisites:** junior standing and advanced to major in an Engineering major or graduate standing.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 431 Materials of Construction**

3 cr. Undergraduate/Graduate.

Investigation covering engineering properties of metals, timber, concrete, masonry, plain and reinforced plastics, glues; thermal effects.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 431G Materials of Construction**

3 cr. Undergraduate/Graduate.

Investigation covering engineering properties of metals, timber, concrete, masonry, plain and reinforced plastics, glues; thermal effects.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 455 Construction Planning, Equipment, and Methods**

3 cr. Undergraduate/Graduate.

This course introduces students to construction planning, equipment, and selected construction methods. This includes economy, selection, the productivity of common construction equipment, and construction procedures for industrial, heavy civil, and commercial construction projects.

**Prerequisites:** junior standing or greater and CIV ENG 431(P); or graduate standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 455G Construction Planning, Equipment, and Methods**

3 cr. Undergraduate/Graduate.

This course introduces students to construction planning, equipment, and selected construction methods. This includes economy, selection, the productivity of common construction equipment, and construction procedures for industrial, heavy civil, and commercial construction projects.

**Prerequisites:** junior standing or greater and CIV ENG 431(P); or graduate standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 456 Foundation Engineering**

3 cr. Undergraduate/Graduate.

Site investigation; foundation bearing capacity and settlement; design of spread and combined footings; lateral earth pressures; retaining wall design; slope stability analysis; pile foundations.

**Prerequisites:** junior standing; CIV ENG 335(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 456G Foundation Engineering**

3 cr. Undergraduate/Graduate.

Site investigation; foundation bearing capacity and settlement; design of spread and combined footings; lateral earth pressures; retaining wall design; slope stability analysis; pile foundations.

**Prerequisites:** junior standing; CIV ENG 335(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 463 Introduction to Finite Elements**

3 cr. Undergraduate/Graduate.

Generation and assembly of finite element matrices in one- and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow.

**Prerequisites:** junior standing; CIV ENG 203(P), CIV ENG 303(P), or ELECENG 234(P); and MECHENG 311(C), MECHENG 320(C), or MECHENG 321(C).**Course Rules:** CIV ENG 463 and MECHENG 462 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 463G Introduction to Finite Elements**

3 cr. Undergraduate/Graduate.

Generation and assembly of finite element matrices in one- and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow.

**Prerequisites:** junior standing; CIV ENG 203(P), CIV ENG 303(P), or ELECENG 234(P); and MECHENG 311(C), MECHENG 320(C), or MECHENG 321(C).**Course Rules:** CIV ENG 463 and MECHENG 462 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 466 Design of Composite Structures**

3 cr. Undergraduate/Graduate.

Hands-on design, analysis, and manufacturing of composite fiber reinforced plastic beams, columns, and plates; failure analysis and damage tolerance design of composite structures; bolted and bonded joints.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P)**Course Rules:** CIV ENG 466 and MECHENG 466 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 466G Design of Composite Structures**

3 cr. Undergraduate/Graduate.

Hands-on design, analysis, and manufacturing of composite fiber reinforced plastic beams, columns, and plates; failure analysis and damage tolerance design of composite structures; bolted and bonded joints.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P)**Course Rules:** CIV ENG 466 and MECHENG 466 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 469 Introduction to Biomechanical Engineering**

3 cr. Undergraduate/Graduate.

Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine.

**Prerequisites:** CIV ENG 202(P) and CIV ENG 303 (P); or consent of instructor.**Course Rules:** MECHENG 469 and CIV ENG 469 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 469G Introduction to Biomechanical Engineering**

3 cr. Undergraduate/Graduate.

Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine.

**Prerequisites:** CIV ENG 202(P) and CIV ENG 303 (P); or consent of instructor.**Course Rules:** MECHENG 469 and CIV ENG 469 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 480 Software Applications for Civil Engineering**

3 cr. Undergraduate.

General knowledge and techniques in using computer software in civil engineering design/ Software packages include Autodesk Civil 3D and Revit Structure.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P).**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 490 Transportation Engineering**

3 cr. Undergraduate/Graduate.

Technological and common elements of all modes of transportation; their effect on performance, demand, and outputs of a transportation system. Development of new transportation systems.

**Prerequisites:** junior standing or higher, advanced to an Engineering major, and IND ENG 367(C); or graduate standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 490G Transportation Engineering**

3 cr. Undergraduate/Graduate.

Technological and common elements of all modes of transportation; their effect on performance, demand, and outputs of a transportation system.

Development of new transportation systems.

**Prerequisites:** junior standing or higher, advanced to an Engineering major, and IND ENG 367(C); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 492 Environmental Impact Assessment**

3 cr. Undergraduate/Graduate.

Study and evaluation of the impacts of large scale projects on the quality of the environment with emphasis on the assessment of physical and community impacts. Impact statement preparation.

**Prerequisites:** senior standing.

**Last Taught:** Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 492G Environmental Impact Assessment**

3 cr. Undergraduate/Graduate.

Study and evaluation of the impacts of large scale projects on the quality of the environment with emphasis on the assessment of physical and community impacts. Impact statement preparation.

**Prerequisites:** senior standing.

**Last Taught:** Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 494 Principles of Civil Engineering Design**

1 cr. Undergraduate.

Project identification and planning for senior design project; proposals, project management and team procedures. Technical communications. Professional engineering responsibilities. Intended for first semester seniors.

**Prerequisites:** senior standing in Civil Engineering, CIV ENG 335(C), CIV ENG 372(C), CIV ENG 411(C), CIV ENG 413(C), and CIV ENG 490(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 495 Senior Design**

3 cr. Undergraduate.

Team design project involving application of fundamental civil engineering concepts. Discussion of specifications, contracts and implementation. Written and oral presentations. Intended for second semester seniors.

**Prerequisites:** CIV ENG 411(P), CIV ENG 413(P), and CIV ENG 494(P); and CIV ENG 335(P), CIV ENG 372(P), and CIV ENG 490(P) for Civil Engineering students; or CIV ENG 311(P), CIV ENG 412(P), and CIV ENG 521(C) for Environmental Engineering students; or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 496 Fundamentals of Engineering Exam Seminar**

0 cr. Undergraduate.

Review of topics on the Fundamentals of Engineering (FE) exam and presents problems from the various sub-areas. The (FE) exam is the first of the two exams engineers for the professional license.

**Prerequisites:** senior standing; Civil Engineering or Environmental Engineering major.

**Course Rules:** Fee for 1 cr assessed. Satisfactory/Unsatisfactory only.

Counts as a repeat of CIV ENG 691 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 499 Ad Hoc:**

1-12 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

**Prerequisites:** none; additional prerequisites may be assigned to specific topic.

**Course Rules:** May be retaken with change in topic. Requires department and associate dean approval.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 502 Experimental Stress Analysis**

3 cr. Undergraduate/Graduate.

Basic stress strain relations; demonstration of experimental methods of determining stresses and strains; use of mechanical strain, electric strain, and strain gages, optical photoelastic equipment, brittle lacquers, models.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P).

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 502G Experimental Stress Analysis**

3 cr. Undergraduate/Graduate.

Basic stress strain relations; demonstration of experimental methods of determining stresses and strains; use of mechanical strain, electric strain, and strain gages, optical photoelastic equipment, brittle lacquers, models.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P).

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 511 Water Supply and Sewerage**

3 cr. Undergraduate/Graduate.

Resources of water supply quality and quantity requirements. Principles of hydraulic design of water supply and sewerage systems; pumping stations. Principles of sewage disposal. Problems of management involving hydrological, engineering, institutional, legal and economic aspects.

**Prerequisites:** junior standing; CIV ENG 411(P).

**Course Rules:** Design project.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 511G Water Supply and Sewerage**

3 cr. Undergraduate/Graduate.

Resources of water supply quality and quantity requirements. Principles of hydraulic design of water supply and sewerage systems; pumping stations. Principles of sewage disposal. Problems of management involving hydrological, engineering, institutional, legal and economic aspects.

**Prerequisites:** junior standing; CIV ENG 411(P).**Course Rules:** Design project.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 521 Water Quality Assessment**

3 cr. Undergraduate/Graduate.

Laboratory techniques for detecting and measuring physical, chemical and biological characteristics of water and wastewater. Water quality requirements. Design of sampling programs.

**Prerequisites:** senior standing; CIV ENG 411(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 521G Water Quality Assessment**

3 cr. Undergraduate/Graduate.

Laboratory techniques for detecting and measuring physical, chemical and biological characteristics of water and wastewater. Water quality requirements. Design of sampling programs.

**Prerequisites:** senior standing; CIV ENG 411(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 555 Sustainable Construction Materials and Technologies**

3 cr. Undergraduate/Graduate.

Sustainable construction materials and methodologies related to commercial construction, LEED/Green certifications, material selection.

**Prerequisites:** junior standing.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 555G Sustainable Construction Materials and Technologies**

3 cr. Undergraduate/Graduate.

Sustainable construction materials and methodologies related to commercial construction, LEED/Green certifications, material selection.

**Prerequisites:** junior standing.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 560 Intermediate Structural Analysis**

3 cr. Undergraduate/Graduate.

Topics in traditional analysis methods; indeterminate structures, load & load paths, moment distribution, approximate methods, elementary plate analysis.

**Prerequisites:** junior standing, CIV ENG 360(P), AND CIV ENG 372(P).**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 560G Intermediate Structural Analysis**

3 cr. Undergraduate/Graduate.

Topics in traditional analysis methods; indeterminate structures, load & load paths, moment distribution, approximate methods, elementary plate analysis.

**Prerequisites:** junior standing, CIV ENG 360(P), AND CIV ENG 372(P).**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 571 Design of Concrete Structures**

3 cr. Undergraduate/Graduate.

Topics in reinforced concrete design; indeterminate reinforced concrete beams and frames; length effect in columns; torsion; two way floor systems; yield line theory.

**Prerequisites:** junior standing; CIV ENG 360(C), CIV ENG 401(C), and CIV ENG 372(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 571G Design of Concrete Structures**

3 cr. Undergraduate/Graduate.

Topics in reinforced concrete design; indeterminate reinforced concrete beams and frames; length effect in columns; torsion; two way floor systems; yield line theory.

**Prerequisites:** junior standing; CIV ENG 360(C), CIV ENG 401(C), and CIV ENG 372(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 572 Design of Steel Structures**

3 cr. Undergraduate/Graduate.

Topics in design of steel structures; tension, compression, and beam members; combined axial and bending; connections; frames; serviceability.

**Prerequisites:** junior standing; CIV ENG 360(C), CIV ENG 401(C), and CIV ENG 372(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 572G Design of Steel Structures**

3 cr. Undergraduate/Graduate.

Topics in design of steel structures; tension, compression, and beam members; combined axial and bending; connections; frames; serviceability.

**Prerequisites:** junior standing; CIV ENG 360(C), CIV ENG 401(C), and CIV ENG 372(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 573 Design of Masonry and Wood Structures**

3 cr. Undergraduate/Graduate.

Properties of masonry materials, loads, design codes, reinforced & unreinforced members, composite & cavity walls, shear walls. Properties of wood, design of wood structural members by LRFD including beams, columns and connections.

**Prerequisites:** junior standing; CIV ENG 360(C) and CIV ENG 372(P).**Last Taught:** Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 573G Design of Masonry and Wood Structures**

3 cr. Undergraduate/Graduate.

Properties of masonry materials, loads, design codes, reinforced & unreinforced members, composite & cavity walls, shear walls. Properties of wood, design of wood structural members by LRFD including beams, columns and connections.

**Prerequisites:** junior standing; CIV ENG 360(C) and CIV ENG 372(P).**Last Taught:** Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CIV ENG 574 Design of Prestressed Concrete Structures**

3 cr. Undergraduate/Graduate.

Design of prestressed concrete structures; methods of prestressing; loss of prestress; design for flexure, shear, torsion; camber and deflections; continuity; connections; fire rating; circular prestressing.

**Prerequisites:** junior standing; CIV ENG 360(C), CIV ENG 372(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 574G Design of Prestressed Concrete Structures**

3 cr. Undergraduate/Graduate.

Design of prestressed concrete structures; methods of prestressing; loss of prestress; design for flexure, shear, torsion; camber and deflections; continuity; connections; fire rating; circular prestressing.

**Prerequisites:** junior standing; CIV ENG 360(C), CIV ENG 372(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 579 Earthquake Engineering**

3 cr. Undergraduate/Graduate.

Earthquake mechanics and effects, structural dynamics, seismic hazard analysis, design guidelines, design of steel and concrete buildings for earthquake loads.

**Prerequisites:** senior standing; CIV ENG 571(P) or CIV ENG 572(P); or consent of instructor; or graduate standing.**Course Rules:** Counts as repeat of CIV ENG 891 with similar topic.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 579G Earthquake Engineering**

3 cr. Undergraduate/Graduate.

Earthquake mechanics and effects, structural dynamics, seismic hazard analysis, design guidelines, design of steel and concrete buildings for earthquake loads.

**Prerequisites:** senior standing; CIV ENG 571(P) or CIV ENG 572(P); or consent of instructor; or graduate standing.**Course Rules:** Counts as repeat of CIV ENG 891 with similar topic.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 580 Engineering Analysis in Applied Mechanics**

3 cr. Undergraduate/Graduate.

Engineering analysis of initial and boundary value problems in applied mechanics. Application of various methods to investigate a variety of engineering situations.

**Prerequisites:** junior standing; ELECENG 234(P).**Course Rules:** CIV ENG 580 and MECHENG 580 are jointly offered and count as repeats of one another.**Last Taught:** Fall 1998, Fall 1996.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 580G Engineering Analysis in Applied Mechanics**

3 cr. Undergraduate/Graduate.

Engineering analysis of initial and boundary value problems in applied mechanics. Application of various methods to investigate a variety of engineering situations.

**Prerequisites:** junior standing; ELECENG 234(P).**Course Rules:** CIV ENG 580 and MECHENG 580 are jointly offered and count as repeats of one another.**Last Taught:** Fall 1998, Fall 1996.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 590 Urban Transportation Planning**

3 cr. Undergraduate/Graduate.

Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, factors underlying the choice of mode, traffic assignment, modeling and evaluation techniques.

**Prerequisites:** senior standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 590G Urban Transportation Planning**

3 cr. Undergraduate/Graduate.

Techniques used to plan urban transportation systems; data collection, trip generation, trip distribution, factors underlying the choice of mode, traffic assignment, modeling and evaluation techniques.

**Prerequisites:** senior standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 592 Traffic Control**

3 cr. Undergraduate/Graduate.

Control of transportation systems with emphasis on traffic engineering principles. Data collection, capacity analysis, traffic improvements, signalization, signs and markings, channelization, intersection, speeds and safety considerations.

**Prerequisites:** senior standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 592G Traffic Control**

3 cr. Undergraduate/Graduate.

Control of transportation systems with emphasis on traffic engineering principles. Data collection, capacity analysis, traffic improvements, signalization, signs and markings, channelization, intersection, speeds and safety considerations.

**Prerequisites:** senior standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 594 Physical Planning and Municipal Engineering**

3 cr. Undergraduate/Graduate.

Organization and structure of local government, zoning and planning, subdivision layout, street design, transit service, urban drainage, storm and sanitary sewer, water supply and other public works activities.

**Prerequisites:** senior standing.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 594G Physical Planning and Municipal Engineering**

3 cr. Undergraduate/Graduate.

Organization and structure of local government, zoning and planning, subdivision layout, street design, transit service, urban drainage, storm and sanitary sewer, water supply and other public works activities.

**Prerequisites:** senior standing.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 596 Transportation Facilities Design**

3 cr. Undergraduate/Graduate.

Physical design of transportation facilities including geometric design and terminals for highway, rail, air and water transportation. Student project work will be required.

**Prerequisites:** junior standing; CIV ENG 490(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 596G Transportation Facilities Design**

3 cr. Undergraduate/Graduate.

Physical design of transportation facilities including geometric design and terminals for highway, rail, air and water transportation. Student project work will be required.

**Prerequisites:** junior standing; CIV ENG 490(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 598 Pavement Analysis and Design**

3 cr. Undergraduate/Graduate.

Pavement types, design factors, traffic loading and volume, materials characterization, drainage design, flexible and rigid pavements design, stresses and deflections, overlay design, pavement rehabilitation.

**Prerequisites:** junior standing and CIV ENG 335(P); or graduate standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 598G Pavement Analysis and Design**

3 cr. Undergraduate/Graduate.

Pavement types, design factors, traffic loading and volume, materials characterization, drainage design, flexible and rigid pavements design, stresses and deflections, overlay design, pavement rehabilitation.

**Prerequisites:** junior standing and CIV ENG 335(P); or graduate standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 610 Introduction to Water and Sewage Treatment**

3 cr. Undergraduate/Graduate.

Characteristics of water and sewage. Principles of physical, chemical and biological processes for water and sewage treatment. Design project.

**Prerequisites:** senior standing; CIV ENG 413(P).**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 610G Introduction to Water and Sewage Treatment**

3 cr. Undergraduate/Graduate.

Characteristics of water and sewage. Principles of physical, chemical and biological processes for water and sewage treatment. Design project.

**Prerequisites:** senior standing; CIV ENG 413(P).**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 614 Hazardous Waste Management**

3 cr. Undergraduate/Graduate.

Hazardous waste; regulatory process; fate and transport of contaminants; treatment and disposal methods; site remediation; quantitative risk assessment; design project.

**Prerequisites:** junior standing; CIV ENG 413(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 614G Hazardous Waste Management**

3 cr. Undergraduate/Graduate.

Hazardous waste; regulatory process; fate and transport of contaminants; treatment and disposal methods; site remediation; quantitative risk assessment; design project.

**Prerequisites:** junior standing; CIV ENG 413(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 616 Computational Hydraulics and Environmental Flows**

3 cr. Undergraduate/Graduate.

Numerical analysis applied to fluid flows and transport phenomena.

Applications in environmental flows, water quality models, transport of pollutant, long wave propagation, etc.

**Prerequisites:** junior standing and CIV ENG 411(P).**Course Rules:** Counts as repeat of CIV ENG 691 with the same topic.**Last Taught:** Spring 2018, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 616G Computational Hydraulics and Environmental Flows**

3 cr. Undergraduate/Graduate.

Numerical analysis applied to fluid flows and transport phenomena.

Applications in environmental flows, water quality models, transport of pollutant, long wave propagation, etc.

**Prerequisites:** junior standing and CIV ENG 411(P).**Course Rules:** Counts as repeat of CIV ENG 691 with the same topic.**Last Taught:** Spring 2018, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 691 Topics in Civil Engineering:**

1-3 cr. Undergraduate/Graduate.

Topics vary. Study of topics in theory and practice of civil engineering.

Specific topics and any additional prerequisites will be announced in Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken to a max of 6 cr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 691G Topics in Civil Engineering:**

1-3 cr. Undergraduate/Graduate.

Topics vary. Study of topics in theory and practice of civil engineering.

Specific topics and any additional prerequisites will be announced in Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken to a max of 6 cr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CIV ENG 699 Independent Study**

1-3 cr. Undergraduate/Graduate.

Independent study on a topic of choice. Credit hours to be arranged between student and staff on an individual basis.

**Prerequisites:** junior standing and consent of instructor.**Course Rules:** May be retaken to max of 6 cr toward the undergraduate degree.**Last Taught:** Spring 2023, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 699G Independent Study**

1-3 cr. Undergraduate/Graduate.

Independent study on a topic of choice. Credit hours to be arranged between student and staff on an individual basis.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken to max of 6 cr toward the undergraduate degree.

**Last Taught:** Spring 2023, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 700 CEAS Graduate Seminar**

1-3 cr. Graduate.

Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.

**Prerequisites:** graduate standing.

**Course Rules:** CIV ENG 700, COMPSCI 700, ELECENG 700, IND ENG 700, MATLENG 700 and MECHENG 700 are jointly offered and count as repeats of one another

**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 701 Advanced Strength of Materials**

3 cr. Graduate.

Beams of elastic foundations; advanced energy methods; thick walled cylinders; torsion of non-circular sections; approximate methods for stresses in plates, stress concentrations, contact stresses, interaction curves, elastic and inelastic buckling, elasticity; matrix & tensor applications.

**Prerequisites:** graduate standing, CIV ENG 203(P) or CIV ENG 303(P) and CIV ENG 401(C) or consent of instructor.

**Last Taught:** Spring 2021, Spring 2018, Fall 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 702 Elastic Stability**

3 cr. Graduate.

Sending of bars under simultaneous action of axial and lateral loads; buckling of compressed bars, rings, and tubes; lateral buckling of beams; torsion of i-beams; buckling of thin plates.

**Prerequisites:** graduate standing, CIV ENG 401(P) and ELECENG 234(P).

**Last Taught:** Fall 2006, Spring 1988, Spring 1986, Spring 1984.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 708 Fate and Transport of Micro and Nano Particles in the Environment**

3 cr. Graduate.

Fundamentals governing fate and transport of micro and nano particles, e.g. inorganic particles, bacteria, viruses and protozoan in aquatic environment and porous media including soil, sand and filtration system.

**Prerequisites:** grad st; Civ Eng 411(P) or 413(P) or cons instr

**Last Taught:** Spring 2021, Spring 2019, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 710 Industrial Waste Treatment**

3 cr. Graduate.

Principles and theories of treating industrial wastes. Characterization of industries and their wastes. Treatment processes including tertiary and advanced wastewater separation techniques. Hazardous wastes management. Administration of industrial waste control. Programs.

**Prerequisites:** graduate standing; CIV ENG 521(P) and CIV ENG 610(P) or consent of instructor.

**Last Taught:** Spring 2010, Fall 2004, Fall 1995, Fall 1986.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 712 Ground Water Flow and Seepage**

3 cr. Graduate.

Linear and non-linear seepage laws; theoretical models; electro-osmosis in soils; analytical solution to steady state problems; numerical solutions to transient problems; analytical solutions to transient problems; experimental methods and models; design of dewatering systems.

**Prerequisites:** graduate standing; CIV ENG 411(P).

**Last Taught:** Fall 2017, Spring 2015, Spring 2011, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 714 Unit Operations in Environmental Engineering**

3 cr. Graduate.

Unit operations of physicochemical and biological aspects employed in water and wastewater treatments. In-situ treatment of contaminated groundwater. Theory and development of design criteria.

**Prerequisites:** graduate standing and CIV ENG 610(P) or consent of instructor.

**Last Taught:** Spring 2009, Fall 2005, Fall 2003, Spring 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 716 Sediment Transport**

3 cr. Graduate.

Physical properties of sediment; incipient motion, bed forms, suspended load, bed load, total load, natural river processes.

**Prerequisites:** graduate standing; CIV ENG 411(P).

**Last Taught:** Fall 2019, Spring 2018, Spring 2016, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 717 Open Channel Flow**

3 cr. Graduate.

Basic equations of continuity, mechanical energy and momentum; uniform, gradually varied, and spatially varied flows; hydraulic structures; governing equations of unsteady flow and numerical solutions.

**Prerequisites:** graduate standing; CIV ENG 411(P) or equivalent.

**Last Taught:** Fall 2020, Fall 2016, Spring 2010, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 718 Biological Processes for Water and Wastewater Treatment**

3 cr. Graduate.

Biological and engineering principles related to trickling filters, activated sludge plants, lagoons, rotating biological contactors, aerobic and anaerobic digesters, nutrient removal and bioremediation.

**Prerequisites:** graduate standing; CIV ENG 413(R) or CIV ENG 610(R).

**Last Taught:** Spring 2022, Spring 2020, Spring 2017, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 719 Pollutant Dispersion Process**

3 cr. Graduate.

Classical diffusion theories; longitudinal dispersion, vertical and transverse mixing in free-surface turbulent flow, application to natural channels.

**Prerequisites:** graduate standing; CIV ENG 411(P).

**Last Taught:** Fall 2021, Fall 2018, Spring 2017, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 721 Advanced Water Analysis**

3 cr. Graduate.

Advanced analytical methods for evaluating sources, distribution patterns, concentrations, and biological effects of pollutants in natural waters. Tracers, nuclear techniques, organics, metals, bioassays. Lecture and laboratory.

**Prerequisites:** graduate standing and CIV ENG 521(P) or consent of instructor.

**Last Taught:** Fall 2008, Fall 2002, Fall 1998, Spring 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 725 Finite Element Methods in Engineering**

3 cr. Graduate.

Formulation and assembly of finite elements. Tools in numerical analysis, interpolation, integration. Trusses, beams, plates, two-dimensional problems. Generalized field problems: heat transfer, fluid flow. Emphasis on practical application.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2023, Spring 2020, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 726 Mechanical Vibrations**

3 cr. Graduate.

Free and forced vibrations of multiple degree of freedom systems using modern matrix methods.

**Prerequisites:** graduate standing; MECHENG 475(P) or equivalent.

**Course Rules:** CIV ENG 726 and MECHENG 726 are jointly offered and count as repeats of one another. Students may not receive credit for both courses.

**Last Taught:** Spring 2000, Spring 1999, Spring 1996, Spring 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 731 Properties of Concrete**

3 cr. Graduate.

Advanced course in portland cement concrete; proportioning methods, theories of hardening and setting, properties, prefabricated concrete, precast concrete, construction methods, light-weight aggregates and concrete, causes of disintegration, protective treatments, specifications, cost estimates.

**Prerequisites:** graduate standing and consent of instructor.

**Last Taught:** Fall 2022, Fall 2019, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 732 Fatigue in Engineering Materials**

3 cr. Graduate.

Influence of repeated stress in engineering design, fatigue testing machines, and procedures, factors influencing fatigue properties, theories of fatigue failure.

**Prerequisites:** CIV ENG 401(P) or consent of instructor.

**Last Taught:** Spring 2015, Fall 2012, Fall 2010, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 735 Advanced Soil Mechanics**

3 cr. Graduate.

Advanced treatment and application of theories and principles of soil mechanics; permeability and seepage; elastic theories of stress distribution; consolidation theories; shearing strength and failure criteria; plastic equilibrium.

**Prerequisites:** graduate standing and CIV ENG 335(P).

**Last Taught:** Spring 2020, Fall 2016, Fall 2014, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 756 Advanced Foundation Engineering**

3 cr. Graduate.

Critical study of actual engineering projects; introduction to existing design procedures and the basis for foundation recommendations.

**Prerequisites:** graduate standing; CIV ENG 456(P).

**Last Taught:** Spring 2021, Fall 2019, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 761 Advanced Structural Analysis**

3 cr. Graduate.

Analysis of structures utilizing matrix stiffness techniques; material and geometric nonlinearities, volume changes, extreme loadings.

**Prerequisites:** graduate standing; CIV ENG 360(P); CIV ENG 463(P).

**Last Taught:** Spring 2019, Spring 1997, Fall 1995, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 771 Advanced Concrete Design**

3 cr. Graduate.

Advanced topics in design of concrete structures; structural systems & bracing, two-way slab, walls, construction phase assessment, joints & ductility, design for fire, seismic design.

**Prerequisites:** graduate standing; CIV ENG 571(P).

**Last Taught:** Spring 2023, Spring 2019, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 772 Advanced Steel Design**

3 cr. Graduate.

Advanced topics in design of steel structures; plate girders, moment resisting frames, stability & bracing, connections, torsion, seismic design, fatigue & fracture.

**Prerequisites:** graduate standing; CIV ENG 572(P).

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 773 Advanced Dynamics**

3 cr. Graduate.

General theory of dynamic behavior from the viewpoint of Lagrangian and Hamiltonian mechanics. Application of energy principles to dynamical analysis of mechanical systems.

**Prerequisites:** graduate standing; MECHENG 580(P) or CIV ENG 580(P); or consent of instructor.

**Course Rules:** CIV ENG 773 and MECHENG 773 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 774 Shock and Vibration Analysis**

3 cr. Graduate.

Dynamic response of mechanical systems to complex shock and vibration conditions; application of the eigenvalue and transform methods of analysis to the solution of engineering problems.

**Prerequisites:** graduate standing; MECHENG 475(P) and MECHENG 580(P).

**Course Rules:** CIV ENG 774 and MECHENG 774 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 775 Analysis and Design of Bridges**

3 cr. Graduate.

Bridge types; loads and AASHTO specifications; analysis and design of superstructures; substructure design; computer applications.

**Prerequisites:** graduate standing, CIV ENG 463(P), CIV ENG 571(P), and CIV ENG 572(P); or consent of instructor.

**Last Taught:** Spring 2021, Spring 2018, Spring 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 777 Design of Multistory Buildings**

3 cr. Graduate.

Topics in design of multistory building systems; planning & environmental criteria, loading, analysis, design, construction, lateral systems, foundation, cladding, building service & management.

**Prerequisites:** graduate standing; CIV ENG 463(P), CIV ENG 571(P), and CIV ENG 572(P).

**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 785 Dynamics of Structures**

3 cr. Graduate.

Analysis and design of structures subjected to dynamic loads; effects of damping and inelastic action; multi-degree of freedom and continuous systems; numerical techniques; seismic design.

**Prerequisites:** graduate standing and CIV ENG 463(P) or consent of instructor.

**Last Taught:** Spring 2017, Spring 2013, Spring 2011, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 790 Transportation Systems Design**

3 cr. Graduate.

Principles of systems analysis as they relate to the planning, design and operation of transportation systems. Model building, evaluation, systems management.

**Prerequisites:** graduate standing and CIV ENG 590(P).

**Last Taught:** Spring 2019, Fall 2013, Fall 2011, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 792 Methods of Transportation Analysis**

3 cr. Graduate.

Mathematical tools useful in analysis of transportation systems. Process of modeling and simulation, matrix techniques, network analysis, statistical analysis, etc. As related to transportation. Use of standard packaged computer programs. Class project may be utilized to develop these skills.

**Prerequisites:** graduate standing, COMPSCI 151(P) or equivalent, and CIV ENG 590(P).

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 794 Traffic Planning and Operations**

3 cr. Graduate.

Planning and design of traffic systems, delay and capacity of signalized intersections, freeway controls, traffic system management and optimization, queues, traffic assignment and simulation.

**Prerequisites:** graduate standing and CIV ENG 592(C).

**Last Taught:** Spring 2021, Spring 2018, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 801 Applied Elasticity**

3 cr. Graduate.

Equations of elasticity in two and three dimensions; two dimensional problems in rectangular polar and curvilinear coordinates; torsion of noncircular shafts; bending of prismatic bars.

**Prerequisites:** graduate standing and CIV ENG 401(P) or consent of instructor.

**Last Taught:** Fall 2001, Fall 1999, Fall 1997, Fall 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 804 Theory of Plasticity**

3 cr. Graduate.

Yield conditions, stress strain relations; plastic potential, hardening theories, torsion, bending, thick walled spherical and cylindrical shells under internal pressure; plane strain of perfectly plastic material.

**Prerequisites:** graduate standing and CIV ENG 805(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 880 Bioengineering Seminar**

1 cr. Graduate.

Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.

**Prerequisites:** graduate standing.

**Course Rules:** CIV ENG 880, COMPSCI 880, ELECENG 880, IND ENG 880, MATLENG 880, and MECHENG 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr max.

**Last Taught:** Spring 2018, Fall 2015, Spring 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirements.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Spring 2022, Fall 2019, Spring 2019, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 891 Advanced Topics in Civil Engineering:**

1-3 cr. Graduate.

Topics vary. Study of advanced topics of theory and practice of structural engineering. Specific topic and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** graduate standing.

**Course Rules:** Retakeable with change in topic to max of 9 cr.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 921 Internship in Civil & Environmental Engineering**

3 cr. Graduate.

Immersive learning experience within a professional engineering environment. Through supervised work placements, students will have the opportunity to apply theoretical knowledge gained in the classroom to real-world engineering projects.

**Prerequisites:** completion of at least 6 graduate-level credits in CIV ENG; department consent required.

**Course Rules:** Retakeable to 6 credits max. Non-thesis students only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 940 Topics in Transportation:**

1-3 cr. Graduate.

Topics vary. Topics and problems of current interest in transportation; readings and review of

**Prerequisites:** recent literature and development of a critical analysis or paper. Subject matter may be student initiated.

**Last Taught:** Fall 2019, Spring 2012, Spring 2005, Spring 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 990 Masters Thesis**

1-9 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 18 cr max. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 998 Doctoral Thesis**

1-12 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor and graduate program committee.

**Course Rules:** Satisfactory/Unsatisfactory only. Repeatable.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CIV ENG 999 Advanced Independent Study**

1-3 cr. Graduate.

**Prerequisites:** graduate standing, consent of instructor and graduate program committee.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Classics (CLASSIC)

**CLASSIC 101 Words Matter. How Greek and Latin Shape Our Language**

3 cr. Undergraduate.

A comprehensive study of the basic Greek and Latin word elements underlying modern English usage and their Indo-European background.

**Prerequisites:** none.

**Course Rules:** Not recom for ESL students.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 170 Classical Mythology**

3 cr. Undergraduate.

A survey of Classical myths in the written sources and in artistic representations.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 171 Classical Mythology: An Audio-Visual Supplement**

1 cr. Undergraduate.

Slide series depicting the influence of classical myth on art and music reinforcing the material presented in Classic 170.

**Prerequisites:** Classic 170(C).

**Course Rules:** Not open for cr to students who have earned 3 or more cr in Classic 170(ER).

**General Education Requirements:** HU

**Last Taught:** Spring 2012, UWinteriM 2011, Fall 2010, Summer 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 192 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2020, Fall 2012, Spring 2004, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 201 Introduction to Greek Life and Literature**

3 cr. Undergraduate.

Ancient Greek life and literature, emphasizing the surviving works of earliest authors, Homer and Hesiod.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 202 Introduction to Roman Life and Literature**

3 cr. Undergraduate.

Roman life and literature, emphasizing events before the death of Augustus.

**Prerequisites:** none; Classic 170(R).

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 211 Alexander the Great to Augustus**

3 cr. Undergraduate.

An introduction to literature, history, and art in Greek culture from Alexander the Great to Augustus.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 274 Ancient Egyptian Civilization**

3 cr. Undergraduate.

Culture of Egypt, with particular attention to its literature reflecting social, political, and religious conditions; emphasis on Egyptian-Hebrew contacts during the second millennium.

**Prerequisites:** none.

**Course Rules:** Classic (Hebr St) 274 & Hist 274 are jointly offered; they count as repeats of one another.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 289 Internship in Classics, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Classics in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Classics; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Last Taught:** Fall 2009, Spring 2009, Fall 2008, Spring 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2014, Spring 2012, UWinterIM 2004, Spring 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2008, Spring 1997, Fall 1984.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 301 The Life and Literature of Classical Athens: Herodotus and Dramatists**

3 cr. Undergraduate.

Classical Greek drama and the writings of Herodotus in translation; their historical background.

**Prerequisites:** junior standing or consent of instructor.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Fall 2021, Spring 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 302 War and Politics in Ancient Greece**

3 cr. Undergraduate.

Thucydides' history and selections from Plato's works in translation; their historical background.

**Prerequisites:** jr st or instructor approval

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2022, Fall 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 303 The Life and Literature of the Roman Empire**

3 cr. Undergraduate.

Major literary works from the early Roman empire in translation; their historical background.

**Prerequisites:** jr st.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 304 The Graeco-Roman World:**

3 cr. Undergraduate/Graduate.

Life and literature (in translation) of the ancient Greco-Roman world.

**Prerequisites:** junior standing; CLASSIC 301(R), CLASSIC 302(R), or CLASSIC 303(R).

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 304G The Graeco-Roman World:**

3 cr. Undergraduate/Graduate.

Life and literature (in translation) of the ancient Greco-Roman world.

**Prerequisites:** junior standing; CLASSIC 301(R), CLASSIC 302(R), or CLASSIC 303(R).

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 312 Ancient Epic Oral Traditions**

3 cr. Undergraduate.

Epic oral traditions of Greece and other ancient and more modern world-wide traditions.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Classic 304 w/similar topic.

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CLASSIC 351 Ancient Greek Religion**

3 cr. Undergraduate.

Ancient Greek religious practices, surveying textual and archaeological evidence as well as major scholarly work in the field. Knowledge of Ancient Greek is not required.

**Prerequisites:** jr st; satisfaction of OWC-A; CLASSIC 201(R).

**General Education Requirements:** HU, OWCB

**Last Taught:** Fall 2022, Spring 2021, Fall 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CLASSIC 370 Hittite Myth and History**

3 cr. Undergraduate.

Origins and history of the Hittites; their myths, culture, and connections with ancient Greece, Troy, Egypt, and Assyria.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Classic 304 w/same subtitle.

**General Education Requirements:** HU

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CLASSIC 390 Egyptian Mythology**

3 cr. Undergraduate.

Egyptian myths and ancient religious practices, emphasizing religious thought in Greco-Roman Egypt.

**Prerequisites:** jr st.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CLASSIC 489 Internship in Classics, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of classics in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Classic; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CLASSIC 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2016, UWinterIM 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CLASSIC 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2016, UWinterIM 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CLASSIC 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st. Add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CLASSIC 699 Directed Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2022, Spring 2017, Spring 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## **College of Health Professions and Sciences (CHPS)**

### **CHPS 100 New Student Seminar in Health Professions**

1 cr. Undergraduate.

Exploration of the UWM campus community, strategies for academic and personal success, and skill development in communication, teamwork, interprofessional education and career/major choices.

**Prerequisites:** none.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## **Communication (COMMUN)**

### **COMMUN 101 Introduction to Interpersonal Communication**

3 cr. Undergraduate.

Basic concepts for understanding communication in interpersonal relationships. Combines a theoretical approach with a skills approach to the study of interpersonal communication.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **COMMUN 103 Public Speaking**

3 cr. Undergraduate.

Principles of public address in informative, persuasive and special occasion situations with emphasis on the theory, composition, and presentation of speeches.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **COMMUN 105 Business and Professional Communication**

3 cr. Undergraduate.

Analysis and application of communication principles and practices (interpersonal communication, teamwork issues, public speaking, technological communication) fundamental to successful participation in organizational and professional activities.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**COMMUN 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 199 Independent Study**

1-3 cr. Undergraduate.

Independent study under the supervision of an appropriate faculty or staff member. For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2014, Fall 2013, Spring 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 264 Persuasive Speaking**

3 cr. Undergraduate.

Designed specifically to increase students' understanding of and proficiency in various techniques and modes of persuasive speaking.

**Prerequisites:** Commun 103(P).

**Last Taught:** Spring 2021, Spring 2006, Fall 2005, Fall 1993.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 285 Communicating with Older Adults**

3 cr. Undergraduate.

Application of communication research and theory to the understanding of communication with, about, and among older adults.

**Prerequisites:** none

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 288 Research Practicum**

1-3 cr. Undergraduate.

Research experience under the supervision of a member of the Commun faculty.

**Prerequisites:** Commun 200(P); 3.00 overall gpa; satisfaction of GER English Composition competency req; writ cons instr.

**Course Rules:** Offered as cr/no cr only. May be retaken to 6 cr max, w/3 cr max from any one faculty member.

**Last Taught:** Spring 2019, Fall 2016, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Last Taught:** Spring 2013, Fall 2011, Spring 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** UWinterIM 2024, Fall 2023, Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 298 Internship in Communication**

1-3 cr. Undergraduate.

Field experience in profit/nonprofit organization; course examines professional communication issues.

**Prerequisites:** 2.0 gpa overall; writ cons internship dir.

**Course Rules:** May be retaken to 6 cr max. Offered as cr/no cr only.

**Last Taught:** Summer 2017, Spring 2017, Fall 2016, Summer 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 300 Interviewers and Interviewing**

3 cr. Undergraduate.

Focuses on information-getting interviews. Discussion, practice, and analysis of interviewer effects, setting, question form, sequence, and wording.

**Prerequisites:** sophomore standing and satisfaction of English Composition competency requirement.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 301 Interpersonal Communication Processes**

3 cr. Undergraduate.

Focused analysis of the processes involved in face to face communication, includes the examination of the communication variables which define, sustain, or change interpersonal relationships.

**Prerequisites:** sophomore standing, COMMUN 101(P), and satisfaction of GER English Composition competency requirement.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 310 Communication in Organizations**

3 cr. Undergraduate.

Factors affecting structure and function of communication in organizations. Emphasis on concepts and principles enhancing effective management of communication processes.

**Prerequisites:** sophomore standing and satisfaction of GER English Composition competency requirement or consent of instructor.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 311 Communication and Leadership**

3 cr. Undergraduate.

Examination of communication related to leadership theory, practice, processes, and outcomes.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 313 Human Communication and Technology**

3 cr. Undergraduate.

Examination of the actual and potential role of technology in facilitating satisfying communication relationships.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; or cons instr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 320 Nonverbal Communication**

3 cr. Undergraduate.

Reviews theory and research in nonverbal aspects of human communication. Consideration of specific research in such areas as proxemics, kinesics, paralanguage, interpretation of nonverbal messages.

**Prerequisites:** sophomore standing and satisfaction of GER English Composition competency requirement.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 323 Communication in Groups and Teams**

3 cr. Undergraduate.

Analysis of communication processes in groups and teams; includes examination of theories and research findings; addresses group and team participation and decision-making skills.

**Prerequisites:** sophomore standing, COMMUN 105(P), and satisfaction of GER English Composition competency requirement; or consent of instructor.**Last Taught:** Spring 2023, Fall 2022, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 327 Instructional Communication for Human Resource Trainers**

3 cr. Undergraduate.

Theory and practice of instructional communication methods used to train employees of profit and nonprofit organizations.

**Prerequisites:** jr st; Commun 103(P) or 105(P); satisfaction of GER English Composition competency req.**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 335 Critical Analysis of Communication**

3 cr. Undergraduate.

Nature, development, and applications of criticism, with major emphasis on contemporary communication situations.

**Prerequisites:** jr st; satisfaction of Oral and Written Communication Part A GER.**General Education Requirements:** OWCB**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 350 Intercultural Communication**

3 cr. Undergraduate.

Overview of U.S. intercultural communication, including communication issues for interracial and interethnic communication.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 360 Entertainment and Politics**

3 cr. Undergraduate.

Social, cultural, political, technical and economic forces that shape the messages communicated by the entertainment media; impacts that these messages have on individuals and society.

**Prerequisites:** sophomore standing.**Course Rules:** Counts as a repeat of JAMS 380 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 362 Argumentation and Debate**

3 cr. Undergraduate.

The theory and practice of argumentation with emphasis on critical thinking, argument analysis, and preparation of policy and evaluative arguments.

**Prerequisites:** sophomore standing and satisfaction of GER English Composition competency requirement.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 363 Communication in Human Conflict**

3 cr. Undergraduate.

Investigation of the relationship between communication and the processes of human conflicts. Focus upon the nature and origin of human conflict and communicative strategies which may be used to manage conflict situations.

**Prerequisites:** jr st; Commun 101(P); satisfaction of GER English Composition competency req.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 365 Negotiation Skills Workshop**

3 cr. Undergraduate.

Simulation-based, interactive workshop on improving student's understanding of the negotiation process; building communicative effectiveness as a negotiator in various business and personal contexts.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Spring 2020, Fall 2019, Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 370 Quantitative Research in Communication**

3 cr. Undergraduate.

Concepts, strategies and methods in the quantitative assessment of problems in the study of human communication as a behavioral science.

**Prerequisites:** jr st; satisfaction of Quantitative Literacy, Part A GER.**General Education Requirements:** QL B**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 372 Qualitative Research in Communication**

3 cr. Undergraduate.

Concepts, strategies, and methods in the qualitative, social-scientific study of human communication. Emphasis on interviews, focus groups, and participant observation.

**Prerequisites:** jr st; satisfaction of Oral & Written Communication Part A GER.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2021, Summer 2019, Summer 2017, Summer 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 381 Health Communication**

3 cr. Undergraduate.

Theory and process of health communication at multiple levels: individual, social network, organizational, community, and societal. Current research in health communication.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; or cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 401 Communication in Marital and Family Relationships**

3 cr. Undergraduate.

Social scientific approach to the study of communication in marital/family relationships. Examination of theory and research concerning communication processes in marital/family relationships.

**Prerequisites:** jr st; Commun 101(P); satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 402 Gender and Communication**

3 cr. Undergraduate.

Course focuses on interactive relationships between gender, communication, and culture; in particular, the ways in which communication creates and perpetuates gendered identities and gendered interaction.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 410 Organizational Communication Technology**

3 cr. Undergraduate.

Conceptual and analytical consideration of communication consequences and needs related to technological assimilation and designing work environments.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 413 Rhetoric and the Internet**

3 cr. Undergraduate.

Critical exploration and analysis of the internet as a communication phenomenon.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2020, Summer 2014, Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 423 Decision-Making and Creativity**

3 cr. Undergraduate.

Key issues in decision making and creativity at various organizational levels and across different decision making domains.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; or cons instr.

**Last Taught:** Spring 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 435 Rhetoric in Western Thought**

3 cr. Undergraduate.

A survey of rhetorical theory in western thinking since ancient Greece.

**Prerequisites:** jr st; Commun 103(P); satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2018, Fall 2007, Fall 2004, Fall 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 436 Recent Rhetorical Theory**

3 cr. Undergraduate.

Recent American and European theories of rhetoric as a dimension of human communication.

**Prerequisites:** jr st; Commun 103(P); satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2010, Spring 2008, Spring 2006, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 440 Contemporary Problems in Freedom of Speech**

3 cr. Undergraduate.

Current legal and regulatory issues that involve freedom of speech.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Spring 2012, Fall 2010, Summer 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 450 Cross-Cultural Communication**

3 cr. Undergraduate.

Theories, research methods, and communication issues in cross-cultural, international interactions.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 462 Communication in the Legal Process**

3 cr. Undergraduate.

Theory and research in argumentation and persuasion and application in the legal process.

**Prerequisites:** jr st; Commun 103(P) or 362(262)(P); satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2007, Fall 2005, Fall 2004, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 464 Theory and Practice of Persuasion**

3 cr. Undergraduate.

Consideration of principles and methods of persuasion, with practice in the analysis and preparation of persuasive messages.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Summer 2023, Fall 2022, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 472 Rhetoric of Radicalism in the United States**

3 cr. Undergraduate.

Rhetoric of radical movements in the United States including the American Revolution, the abolitionist and free love movements, Black Nationalism, women's liberation, and contemporary radical movements.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of Commun 651 w/similar topic.**Last Taught:** Spring 2023, Spring 2014, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 473 African American Public Discourse**

3 cr. Undergraduate.

Rhetorical analysis and historical survey of public and persuasive discourse by African Americans from the early nineteenth through the twenty-first century.

**Prerequisites:** soph st and satisfaction of OWC-A.**Last Taught:** Spring 2023, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 474 Rhetoric of Women's Rights in the US**

3 cr. Undergraduate.

Rhetoric of women's rights and its relationship to equality and participation.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of Commun 651 w/similar topic.**Last Taught:** Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 481 Interpersonal Issues in Health Communication**

3 cr. Undergraduate.

Theory and practice of health communication at the interpersonal level, including such topics as personal relationships, provider-patient interaction, technology, and interpersonal education and prevention.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; or cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 550 International and Global Communication**

3 cr. Undergraduate/Graduate.

Models, theories, and contexts of relational communication between people from different nation states, viewed from interpersonal, small group, organizational, and rhetorical perspectives.

**Prerequisites:** jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 550G International and Global Communication**

3 cr. Undergraduate/Graduate.

Models, theories, and contexts of relational communication between people from different nation states, viewed from interpersonal, small group, organizational, and rhetorical perspectives.

**Prerequisites:** jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 581 Health Communication Interventions**

3 cr. Undergraduate.

Theories, strategies, and methods in the design of health promotional and disease prevention interventions. Development of ethical and culturally responsive communication strategies.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; or cons instr.**Last Taught:** Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 588 Research Practicum**

1-3 cr. Undergraduate.

Advanced research experience under the supervision of a member of the Commun faculty.

**Prerequisites:** jr st; commun major or minor; 3.00 overall gpa; Commun 200(P), 335(P), or 370(P); satisfaction of GER English Composition competency req; writ cons instr.**Course Rules:** Offered as cr/no cr only. May be retaken to 6 cr max, w/3 cr max from any one faculty member.**Last Taught:** Spring 2019, Spring 2018, Fall 2016, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 597 Practicum in Teaching Communication**

1-3 cr. Undergraduate.

**Prerequisites:** jr st; declared commun major or minor; 3.00 gpa in Commun; satisfaction of GER English Composition competency req; writ cons instr.

**Course Rules:** May be retaken to 6 cr max, with max of 3 cr from any one faculty member.**Last Taught:** Spring 2010, Fall 2009, Fall 2007, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 631 Current Topics in Interpersonal Communication/Conflict Management:**

3 cr. Undergraduate.

Research-oriented approaches to interpersonal communication/conflict management. Specific topics announced in Schedule of Classes when course is offered.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 641 Current Topics in Organizational/Professional Communication:**

3 cr. Undergraduate.

Research-oriented approaches to organizational/professional communication. Specific topics announced Schedule of Classes when course is offered.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2010, Fall 2009, Spring 2009, Fall 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 651 Current Topics in Rhetorical/Public Communication:**

3 cr. Undergraduate.

Research-oriented approaches to rhetorical/public communication. Specific topics announced in Schedule of Classes when course is offered.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2009, Fall 2007, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 655 Cultural Training and Adjustment**

3 cr. Undergraduate/Graduate.

Theories and research related to the role of communication in cultural adjustment processes, cultural training, and evaluation of training.

**Prerequisites:** jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.

**Last Taught:** Spring 2021, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 655G Cultural Training and Adjustment**

3 cr. Undergraduate/Graduate.

Theories and research related to the role of communication in cultural adjustment processes, cultural training, and evaluation of training.

**Prerequisites:** jr st; Commun 350(P) or 450(P); satisfaction of GER English Composition competency req; or cons instr.

**Last Taught:** Spring 2021, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 665 Introduction to Mediation**

3 cr. Undergraduate/Graduate.

Course focuses on learning about the mediation process, related theories, and its application in a variety of contexts. Students receive twenty hours of mediation training.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 665G Introduction to Mediation**

3 cr. Undergraduate/Graduate.

Course focuses on learning about the mediation process, related theories, and its application in a variety of contexts. Students receive twenty hours of mediation training.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 667 Great American Speakers and Issues**

3 cr. Undergraduate/Graduate.

Selected great speakers and their speeches on major issues in American history.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 667G Great American Speakers and Issues**

3 cr. Undergraduate/Graduate.

Selected great speakers and their speeches on major issues in American history.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 672 Communication and Social Order**

3 cr. Undergraduate/Graduate.

The role of communication in both maintaining and challenging social structures and hierarchies.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 672G Communication and Social Order**

3 cr. Undergraduate/Graduate.

The role of communication in both maintaining and challenging social structures and hierarchies.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 698 Internship in Communication**

3 cr. Undergraduate.

Field experience in a profit/nonprofit organization; course examines professional communication issues.

**Prerequisites:** jr st; declared Commun major or approved program of study; 9 cr Commun 300-level or above; 2.5 overall gpa; satisfaction of GER English Composition and Math competency reqs; writ cons internship dir.

**Course Rules:** May be retaken w/chg in organization to 6 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 699 Advanced Independent Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a Commun faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept dir of undergrad stds.

**Prerequisites:** jr st; 2.0 GPA; satisfaction of GER English Composition competency requirement; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Spring 2018, Fall 2015, Fall 2014, Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 700 Quantitative Research in Communication**

3 cr. Graduate.

Introduction to the methods and techniques of quantitative research in communication, with special focus on problems of experimental and field research.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 701 Critical Analysis of Communication**

3 cr. Graduate.

Introduction to the methods and techniques of humanistic research in communication, with special focus on problems of criticism and history.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 702 Qualitative Research in Communication**

3 cr. Graduate.

Methods and techniques of qualitative research in communication; special focus on problems of discourse analysis and interaction observation.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Spring 2022, Spring 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 735 Rhetorical Theory**

3 cr. Graduate.

Critical study of various humanistic theories of rhetorical communication. Major emphasis on contemporary theories, trends, and concepts.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022, Fall 2020, Spring 2018, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 750 Theory and Research in Intercultural Communication**

3 cr. Graduate.

Major theories and contemporary research in the field of intercultural, cross-cultural, and global communication.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 762 Argumentation in Theory and Practice**

3 cr. Graduate.

Argumentation theories in a performance-based context to train citizen-scholars. Assumes no prior knowledge of argumentation theories.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Fall 2015, Fall 2012, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 772 Rhetorical Leadership and Ethics**

3 cr. Graduate.

The practice of responsible leadership from the humanities-based perspective of rhetoric.

**Prerequisites:** grad st.

**Last Taught:** Spring 2021, Fall 2018, Spring 2016, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 800 Proseminar: The Discipline of Communication**

3 cr. Graduate.

The theoretical, conceptual, and pedagogical parameters of communication as a discipline.

**Prerequisites:** grad st; admission to Commun M.A. Program or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 801 Seminar in Interpersonal Communication**

3 cr. Graduate.

Overview of current perspectives and critical analysis of research in verbal and nonverbal aspects of interpersonal communication.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2021, Fall 2017, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 802 Marital and Family Communication**

3 cr. Graduate.

Examination of how communication functions to develop, maintain, enrich, or limit family relationships.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022, Fall 2020, Spring 2013, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 805 Seminar on Issues in Interpersonal Communication:**

3 cr. Graduate.

In-depth study and discussion of application of interpersonal communication research and theory.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as repeat of COMMUN 860 with same subtitle.

Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2022, Spring 2020, Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 806 Understudied Close Relationships**

3 cr. Graduate.

How communication functions to develop, maintain, enrich, or limit understudied close relationships.

**Prerequisites:** grad st.

**Course Rules:** Counts as a repeat of Commun 805 w/similar topic.

**Last Taught:** Spring 2022, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 810 Studies of Communication in Organizations**

3 cr. Graduate.

Surveys theory and research on communication processes that constitute and maintain organizations. Topics include communication and networks, managerial hierarchy, power, and organizational culture.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022, Fall 2019, Spring 2016, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 813 Seminar in Mediated Communication**

3 cr. Graduate.

Advanced course focusing on theory and research pertaining to relationships between human communication processes and interactive technologies.

**Prerequisites:** grad st.**Last Taught:** Fall 2021, Spring 2019, Spring 2016, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 814 Communication Technologies in Relationships**

3 cr. Graduate.

In-depth study and discussion of theory and research pertaining to how, why, and with what effects people use communication technologies for interpersonal communication in a variety of contexts.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of COMMUN 805 with the same topic.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 816 Media Effects**

3 cr. Graduate.

Cross-disciplinary examination of theoretical approaches, research methods, and findings in the study of the effects of media on beliefs, opinions, behavior, and policy; design and execution of a research project.

**Prerequisites:** graduate standing.**Course Rules:** Previously JAMS 810.**Last Taught:** Spring 2019, Fall 2014, Spring 2013, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 818 Politics and the Media**

3 cr. Graduate.

In-depth examination of the relationships between the media and politics in the United States.

**Prerequisites:** graduate standing.**Course Rules:** Previously JAMS 835.**Last Taught:** Spring 2019, Spring 2015, Spring 2010, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 823 Seminar in Small Group Communication**

3 cr. Graduate.

Examination of theory and research in small group communication: methods, applications, and problems of small group communication.

**Prerequisites:** grad st.**Last Taught:** Fall 2021, Spring 2020, Spring 2018, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 825 Work/Life Intersections and Communication**

3 cr. Graduate.

Discussion and analysis of current communication research and work to extend understanding about how communication creates, frames, perpetuates, and challenges conceptualizations of the public (paid work) and private (life) spheres.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of COMMUN 860 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 830 Negotiation**

3 cr. Graduate.

Theory and research addressing negotiation as fundamentally a communicative process.

**Prerequisites:** grad st.**Course Rules:** Counts as repeat of Commun 860 w/ same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 835 Seminar in Contemporary Public Address**

3 cr. Graduate.

Observation and analysis of verbal and nonverbal messages, forms, situations, strategies and media in contemporary public communication.

**Prerequisites:** grad st.**Last Taught:** Spring 2022, Spring 2019, Spring 2013, Summer 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 837 Instructional Communication in the College Classroom**

3 cr. Graduate.

Theory and practice of instructional communication in the college classroom; research connected to students' own teaching development.

**Prerequisites:** grad st**Last Taught:** Spring 2023, Spring 2021, Fall 2016, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 850 Seminar in Intercultural Communication**

3 cr. Graduate.

Examination of advanced theory and research in intercultural and international communication; methods and problems of intercultural communication research.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 852 Critical Approaches to Intercultural Communication**

3 cr. Graduate.

Critical approaches to culture, identity, and intercultural communication using both classical and contemporary texts; emphasis on scholars of color and other marginalized groups.

**Prerequisites:** graduate standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 860 Seminar: Issues in Communication:**

3 cr. Graduate.

In-depth study and discussion of application of communication research and theory. Content varies.

**Prerequisites:** graduate standing.**Course Rules:** Retakable with change in topic to 9 cr max.**Last Taught:** Fall 2023, Fall 2021, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 862 Public Deliberation**

3 cr. Graduate.

Emerging literature on deliberative democracy; ethical, practical, and political possibilities for public argument and decision making.

**Prerequisites:** grad st**Last Taught:** Fall 2022, Fall 2013, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 864 Communication and Social Influence**

3 cr. Graduate.

Advanced theory and experimental studies in persuasion.

**Prerequisites:** grad st.**Last Taught:** Fall 2016, Fall 2012, Spring 2010, Summer 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 872 Rhetorics of Constituting Community and Social Controversy**

3 cr. Graduate.

Advanced theories of promoting and disrupting identification or division and social conflict through rhetoric.

**Prerequisites:** grad st.**Last Taught:** Spring 2022, Spring 2020, Spring 2017, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 873 The Digital Mirror**

3 cr. Graduate.

Public messages about a wide range of technologies as purposeful statements about our identity as a technoculture and technocitizens.

**Prerequisites:** grad st**Last Taught:** Spring 2019, Spring 2015, Fall 2011, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 874 Rhetoric of Women's Rights in the US**

3 cr. Graduate.

The rhetorical tradition of women's rights in the U.S. and its use as a lens to reflect on rhetorical theory and criticism.

**Prerequisites:** grad st**Last Taught:** Fall 2022, Spring 2018, Fall 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 875 Rhetoric of Space and Mobility**

3 cr. Graduate.

The intersections of rhetoric, space, and mobility.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of COMMUN 973 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2023, Spring 2019, Summer 2015, Summer 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 893 Rhetoric of/and the Internet**

3 cr. Graduate.

The concept of 'The Internet' in popular culture; opportunities and obstacles the internet presents to rhetorical communication.

**Prerequisites:** grad st**Last Taught:** Spring 2022, Fall 2019, Fall 2009, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 900 Philosophy and Practice of Communication**

3 cr. Graduate.

Philosophical and theoretical perspectives on the scholarly study of human communication.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 902 Advanced Qualitative Research in Communication - Interviewing**

3 cr. Graduate.

Advanced methods and techniques of qualitative research in communication; special focus on interviewing.

**Prerequisites:** graduate standing and COMMUN 702(P); or consent of instructor.**Course Rules:** Counts as repeat of COMMUN 860 with the same topic.**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 913 Advanced Topics in Group Communication:**

3 cr. Graduate.

Theory of and research on emerging issues related to the study and teaching of group communication.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 950 Theory Building in Communication and Culture**

3 cr. Graduate.

The processes of conducting scientific inquiry about communication and culture.

**Prerequisites:** grad st; Commun 750(P); Commun 850(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 971 Meta-Analysis: Practice and Application**

3 cr. Graduate.

Meta-analysis as means of quantitative literature summary for social sciences with application to education and health.

**Prerequisites:** grad st.**Course Rules:** Counts as repeat of Commun 972 w/similar subtitle.**Last Taught:** Fall 2017, Fall 2014, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 972 Advanced Methods in Communication Research:**

3 cr. Graduate.

Multivariate statistical methods. Advanced and emerging new methodologies for communication research.

**Prerequisites:** grad st; Commun 700(P), 701(P), 702(P), 770(P); or cons instr**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Fall 2020, Fall 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 973 Topics in Rhetorical Research:**

3 cr. Graduate.

In-depth examination of a particular area of rhetorical research, with focus on methodologies; students reflect on epistemic, publication, and professional issues.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr.**Last Taught:** Fall 2023, Fall 2021, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMMUN 990 Research and Thesis**

1-12 cr. Graduate.

Production of a thesis under the supervision of student's major professor with consultation of the degree committee.

**Prerequisites:** grad st & cons instr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**COMMUN 998 Communication Internship**

1-3 cr. Graduate.

Student applies course work in profit or nonprofit setting; synthesizes course and work experience in graded paper.

**Prerequisites:** grad st; 12 grad cr Commun or, for mediation interns, 6 grad cr from Mediation Cert course list; writ cons sponsoring agency or organization; cons supervising faculty member & Commun grad prog dir.

**Course Rules:** Retakable to 3 cr max.

**Last Taught:** Summer 2023, Fall 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMMUN 999 Independent Study**

1-3 cr. Graduate.

Supervised investigation of a particular topic area either not covered by other communication courses or at a level of sophistication beyond that in other courses.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Retakable to 3 cr max for M.A. students, and 9 cr max for Ph.D. students.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Communication Sciences and Disorders (COMSDIS)

**COMSDIS 210 Survey of Communication Disorders**

3 cr. Undergraduate.

A broad overview of speech, language, and hearing disorders. Normal development, adult functions and cultural differences are explored, as well as general approaches to rehabilitation.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 220 Anatomy and Physiology of Speech, Hearing, and Language Mechanisms**

4 cr. Undergraduate.

Structures and functions involved in normal speech, hearing, and language.

**Prerequisites:** Bio Sci 202 (P) or cons instr.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 230 Introduction to Phonetics**

4 cr. Undergraduate.

Descriptive study of the production and perception of English speech sounds; broad phonetic transcription; introduction to physiological, acoustic, and clinical phonetics.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 240 Normal Speech and Language Development**

3 cr. Undergraduate.

Intensive study of children's speech and language acquisition and research techniques for investigating children's speech and language behavior. Interrelationship with other development areas also discussed.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective**

3 cr. Undergraduate.

Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.

**Prerequisites:** soph st or cons instr.

**Course Rules:** BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 250 Interprofessional Communication in the Health Sciences**

3 cr. Undergraduate.

Introduction to best-practices in interprofessional communication within the Health Sciences; emphasis on patient-provider interactions, regulations, health literacy, and interprofessional communication.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 350 Clinical Process I: Articulation and Phonology Disorders**

3 cr. Undergraduate.

Introduction to the clinical process and its application to the assessment and intervention of articulation and phonology disorders in children.

**Prerequisites:** jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 351 Clinical Process II: Child Language Disorders**

3 cr. Undergraduate.

The clinical process and its application to the assessment and intervention of language disorders in children.

**Prerequisites:** jr st; admis to major; ComSDis 350(NP).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 380 Bases of Hearing Science**

3 cr. Undergraduate.

Consideration of fundamental physical and psychophysical concepts in hearing science and advanced topics in auditory physiology promoting a basic understanding of hearing and hearing measurement.

**Prerequisites:** ComSDis 220(NP) or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 450 Bases of Fluency and Voice Disorders**

3 cr. Undergraduate.

Overview of the basic requirements for fluent speech and voice production. Also includes an introduction to the disorders of fluency and voice.

**Prerequisites:** jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP) or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 460 Survey of Adult Neurogenic Language and Speech Disorders**

3 cr. Undergraduate.

Principles and concepts underlying acquired adult neurogenic language and speech disorders. Topics include aphasia, apraxia, dysarthria, dementia, closed head injury, and right hemisphere disorders.

**Prerequisites:** jr st; admis to major; ComSDis 220(NP), 230(NP), 240(NP) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 470 Introduction to Audiology**

3 cr. Undergraduate.

Overview of clinical hearing assessment including principles of assessment, instrumentation and calibration, basic audiometry, interpretation of audiometric results, and hearing disorders. Participation in laboratories required.

**Prerequisites:** jr st; ComSDis 220(NP), 380(NP) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 480 Speech Science**

3 cr. Undergraduate.

Study of anatomic, physiologic, acoustic and perceptual parameters involved in speech production and perception; exposure to instrumentation for clinical application/research.

**Prerequisites:** jr st; admis to major; ComSDis 380 or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 490 Audiologic (Re)Habilitation**

3 cr. Undergraduate.

Study of the fundamentals of (re)habilitative audiology. Includes study of current comprehensive audiologic (re)habilitative approaches with pediatric through geriatric populations.

**Prerequisites:** jr st; ComSDis 470(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 500 Clinical Practice in Speech-Language Pathology:**

3 cr. Undergraduate.

Initial supervised practicum experience with articulation, phonology, and/or child language disorders.

**Prerequisites:** jr st; admis to major; ComSDis 351(P); cons instr.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 520 Counseling in Communication Disorders**

3 cr. Undergraduate/Graduate.

Current theories in counseling and guidance, procedures designed specifically for use with the communicatively impaired. Opportunity for application of knowledge will be provided.

**Prerequisites:** jr st; admis to major or cons instr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 520G Counseling in Communication Disorders**

3 cr. Undergraduate/Graduate.

Current theories in counseling and guidance, procedures designed specifically for use with the communicatively impaired. Opportunity for application of knowledge will be provided.

**Prerequisites:** jr st; admis to major or cons instr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 579 Special Topics in Communication Sciences and Disorders:**

1-3 cr. Undergraduate/Graduate.

Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to max of 6 cr.

**Last Taught:** Summer 2020, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 579G Special Topics in Communication Sciences and Disorders:**

1-3 cr. Undergraduate/Graduate.

Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to max of 6 cr.

**Last Taught:** Summer 2020, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 580 Communication Problems of the Older Adult**

3 cr. Undergraduate/Graduate.

Study of the impairments to the communicative process caused by physiological, environmental, and social psychological changes which come with aging.

**Prerequisites:** sr st; ComSDis 460 or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 580G Communication Problems of the Older Adult**

3 cr. Undergraduate/Graduate.

Study of the impairments to the communicative process caused by physiological, environmental, and social psychological changes which come with aging.

**Prerequisites:** sr st; ComSDis 460 or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 620 Craniofacial Disorders**

2 cr. Undergraduate/Graduate.

Genetic, embryological, anatomical and physiological aspects of craniofacial disorders, including cleft lip and palate; associated communicative disorders; diagnostic and therapeutic approaches for related speech-language problems.

**Prerequisites:** ComSDis 350(P), 351(P), 480(P); cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 620G Craniofacial Disorders**

2 cr. Undergraduate/Graduate.

Genetic, embryological, anatomical and physiological aspects of craniofacial disorders, including cleft lip and palate; associated communicative disorders; diagnostic and therapeutic approaches for related speech-language problems.

**Prerequisites:** ComSDis 350(P), 351(P), 480(P); cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 630 Communication Disorders in Multicultural Populations**

2 cr. Undergraduate/Graduate.

Application of theoretical models and research perspectives to the assessment and treatment of communication disorders in children from multicultural populations.

**Prerequisites:** sr st; cons instr.

**Last Taught:** Fall 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 630G Communication Disorders in Multicultural Populations**

2 cr. Undergraduate/Graduate.

Application of theoretical models and research perspectives to the assessment and treatment of communication disorders in children from multicultural populations.

**Prerequisites:** sr st; cons instr.

**Last Taught:** Fall 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities**

3 cr. Undergraduate/Graduate.

Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.

**Prerequisites:** jr st.

**Course Rules:** ExcEduc 634, Occthy 634, & ComSDis 634 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 634G Collaborative Consultation/Teaming-Serving Young Children with Disabilities**

3 cr. Undergraduate/Graduate.

Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.

**Prerequisites:** jr st.

**Course Rules:** ExcEduc 634, Occthy 634, & ComSDis 634 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 640 Clinical and Research Instrumentation in Communication Sciences & Disorders**

2 cr. Undergraduate/Graduate.

Hands-on laboratory experience with several clinically practical and non-invasive instrumentation systems for analyzing, monitoring, documenting normal as well as abnormal articulation, voice and prosody.

**Prerequisites:** sr st; ComSDis 480(P); cons instr.

**Last Taught:** Spring 2009, Summer 1988.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 640G Clinical and Research Instrumentation in Communication Sciences & Disorders**

2 cr. Undergraduate/Graduate.

Hands-on laboratory experience with several clinically practical and non-invasive instrumentation systems for analyzing, monitoring, documenting normal as well as abnormal articulation, voice and prosody.

**Prerequisites:** sr st; ComSDis 480(P); cons instr.

**Last Taught:** Spring 2009, Summer 1988.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 650 Communication Assessment and Intervention for Persons with Disabilities**

3 cr. Undergraduate/Graduate.

Application of various theories and models of communication assessment and intervention for persons with severe/profound disabilities.

**Prerequisites:** sr st; cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 650G Communication Assessment and Intervention for Persons with Disabilities**

3 cr. Undergraduate/Graduate.

Application of various theories and models of communication assessment and intervention for persons with severe/profound disabilities.

**Prerequisites:** sr st; cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 660 School-Age Language**

2 cr. Undergraduate/Graduate.

Language disorders in older children and adolescents; application of developmental theory to assessment and intervention.

**Prerequisites:** sr st; cons instr.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 660G School-Age Language**

2 cr. Undergraduate/Graduate.

Language disorders in older children and adolescents; application of developmental theory to assessment and intervention.

**Prerequisites:** sr st; cons instr.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 661 The Role of the Speech-language Pathologist in Literacy**

2 cr. Undergraduate/Graduate.

Language theory related to reading and writing disorders. Speech-language pathologist's role in assessment and intervention.

**Prerequisites:** sr st; cons instr.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 661G The Role of the Speech-language Pathologist in Literacy**

2 cr. Undergraduate/Graduate.

Language theory related to reading and writing disorders. Speech-language pathologist's role in assessment and intervention.

**Prerequisites:** sr st; cons instr.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 670 Advanced Procedures in Aural Rehabilitation for the SLP**

3 cr. Undergraduate/Graduate.

Examination of hearing disorders and their impact on speech and language. Audiogram interpretation, treatment of hearing disorders, and aural rehabilitation techniques for B-3 through geriatric populations.

**Prerequisites:** senior standing, COMSDIS 470(P); or consent of instructor.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 670G Advanced Procedures in Aural Rehabilitation for the SLP**

3 cr. Undergraduate/Graduate.

Examination of hearing disorders and their impact on speech and language. Audiogram interpretation, treatment of hearing disorders, and aural rehabilitation techniques for B-3 through geriatric populations.

**Prerequisites:** senior standing, COMSDIS 470(P); or consent of instructor.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 688 Evaluation and Diagnosis in Speech-Language Pathology**

2 cr. Undergraduate/Graduate.

The diagnostic process in speech-language assessment: case histories and interviewing, formal and informal assessment, interpretation of results, and report writing.

**Prerequisites:** sr st; ComSDis 351(P); or cons instr.**Last Taught:** Fall 2023, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 688G Evaluation and Diagnosis in Speech-Language Pathology**

2 cr. Undergraduate/Graduate.

The diagnostic process in speech-language assessment: case histories and interviewing, formal and informal assessment, interpretation of results, and report writing.

**Prerequisites:** sr st; ComSDis 351(P); or cons instr.**Last Taught:** Fall 2023, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 690 Cognitive Communication Disorders in Adults**

2 cr. Undergraduate/Graduate.

Communication disorders related to traumatic brain injury and dementia in adults. Emphasis on neuropathology, symptomatology, assessment, and management.

**Prerequisites:** sr st, ComSDis 460, and cons instr; or grad st.**Last Taught:** Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 690G Cognitive Communication Disorders in Adults**

2 cr. Undergraduate/Graduate.

Communication disorders related to traumatic brain injury and dementia in adults. Emphasis on neuropathology, symptomatology, assessment, and management.

**Prerequisites:** sr st, ComSDis 460, and cons instr; or grad st.**Last Taught:** Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Individual program of supervised study.

**Prerequisites:** sr st; cons instr & faculty advisor; completion of advanced independent study form.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 701 Research Design and Methods in Communication Sciences and Disorders**

3 cr. Graduate.

Introduction to strategy, design, and methodology in quantitative research; includes considerations in evaluating and understanding components of research articles, and integrating research into clinical practice.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 702 Clinical Phonology and Articulation**

2 cr. Graduate.

Normal and disordered aspects of articulation and phonology. Emphasis on theoretical and practical considerations for clinical assessment and treatment.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 703 Voice Disorders**

2 cr. Graduate.

Diagnosis and treatment of hyperfunctional disorders; psychogenic voice disorders; organic diseases, trauma, and congenital disorders of the larynx; resonance disorders; and alaryngeal speech.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 704 Speech Fluency and Stuttering**

3 cr. Graduate.

Theory and research related to the nature and treatment of stuttering. Discussion of factors important to the clinical management of fluency in children and adults.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 705 Aphasia in Adults**

2 cr. Graduate.

Nature of aphasia and related communication disorders. Study of pertinent diagnostic and prognostic techniques and therapeutic procedures.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2011, Fall 2010, Fall 2009, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 706 Language Assessment and Intervention**

3 cr. Graduate.

Application of various theoretical models and research perspectives to the assessment and treatment of children with language impairments.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 709 Evaluation and Management of Swallowing Disorders**

3 cr. Graduate.

Study of normal and abnormal swallowing across the lifespan, with emphasis on etiologies, clinical and instrumental evaluation techniques, and management.

**Prerequisites:** grad st; ComSDis 712(P); cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 710 Motor Speech Disorders**

3 cr. Graduate.

Basic neurological substrates of the dysarthrias and apraxia, differential diagnosis and treatment of acquired and developmental communication disorders associated with apraxia and dysarthria.

**Prerequisites:** grad st; ComSDis 703(P) & 712(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 711 Applied Speech Science**

3 cr. Graduate.

Advanced study of physiological, acoustical, and perceptual perspectives of normal and abnormal speech production mechanisms; laboratory experience with speech science instrumentation for research/clinical application.

**Prerequisites:** grad st; cons instr.**Course Rules:** Counts as repeat of ComSDis 801.**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 712 Acquired Neurogenic Communication Disorders in Adults**

3 cr. Graduate.

Nature of acquired neurogenic communication disorders, including aphasia, TBI, RHD and dementia. Study of pertinent diagnostic and prognostic techniques and therapeutic procedures.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 713 Degenerative Cognitive Communication Disorders in Older Adults**

2 cr. Graduate.

Nature of healthy cognitive aging and cognitive and communicative disorders of dementia. Study of pertinent diagnostic and prognostic techniques and therapeutic procedures.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 715 Assessment and Intervention in Augmentative and Alternative Communication**

3 cr. Graduate.

Application of current research in augmentative and alternative communication (AAC) for assessment, prescription of AAC systems, and intervention planning for individuals with severe communication disorders.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 717 Special Populations in Communication Disorders**

2 cr. Graduate.

Seminar reviewing the current literature on selected populations of individuals with communication disorders and the implications of this literature on clinical practice.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 720 Advanced Clinical Practice in Speech-Language Pathology:**

1-3 cr. Graduate.

Supervised clinical practice with different speech and language problems in children and adults.

**Prerequisites:** graduate standing; consent of instructor.**Course Rules:** Counts as a repeat of COMSDIS 902. Retakable as necessary to fulfill competency requirements. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 721 The Clinical Process**

1 cr. Graduate.

Analysis of the clinical process with application to clients with different speech-language disorders.

**Prerequisites:** grad st**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 724 Advanced Clinical Experiences in Speech-Language Pathology**

1-3 cr. Graduate.

Supervised clinical experience in medical or educational settings.

**Prerequisites:** graduate standing in COMSDIS program and consent of instructor.**Course Rules:** Retakeable to 6 credits max. Satisfactory/Unsatisfactory only.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 725 Speech/Language Services in Educational and Medical Environments**

2 cr. Graduate.

Methods and professional issues related to the speech-language pathologist employed in the educational and medical environments.

**Prerequisites:** grad st, ComSDis 709(C) or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 726 Speech-Language Pathology Externship in Medical Environments**

6 cr. Graduate.

Supervised clinical experience in medical and rehabilitation settings.

**Prerequisites:** grad st; COMSDIS 709(P); COMSDIS 725(P); cons instr & grad advisor.**Course Rules:** Counts as a repeat of COMSDIS 903. May be repeated to 12 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 727 Speech-Language Pathology Externship in Educational Environments**

6 cr. Graduate.

Supervised clinical experience in educational environments.

**Prerequisites:** grad st; ComSDis 660(P) or 706(P); ComSDis 725(P); cons instr & grad advisor.**Course Rules:** Counts as repeat of ComSDis 905. May be repeated to 12 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 728 Instrumentation Laboratory**

1 cr. Graduate.

Hands-on experience with speech science instrumentation for analysis of voice, prosody, and resonance.

**Prerequisites:** grad st; ComSDis 703(C) or cons instr.**Course Rules:** Counts as repeat of ComSDis 908.**Last Taught:** Spring 2008, Spring 2007, Fall 2006, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 729 Speech-Language Pathology Internship Course in Medical Environments**

2 cr. Graduate.

Cultivation and enhancement of the critical thinking abilities and collaborative skills of student clinicians within the context of clinical placements. Active analysis, evaluation, and synthesis of clinical scenarios, case studies, internship experiences.

**Prerequisites:** graduate standing, COMSDIS 709(P), and COMSDIS 725(P).**Course Rules:** May be repeated to 4 credit max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 730 Speech-Language Pathology Internship Lab In Medical Environments**

4 cr. Graduate.

Supervised clinical experience in the field of speech language pathology in medical settings.

**Prerequisites:** graduate standing, COMSDIS 709(P), and COMSDIS 725(P).**Course Rules:** Repeatable to 8 cr max. Satisfactory/Unsatisfactory only.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 731 Speech-Language Pathology Internship in Educational Environments**

2 cr. Graduate.

Lecture, analysis, and discussion related to the roles and responsibilities of an educational speech and language pathologist.

**Prerequisites:** graduate standing, COMSDIS 660(P) or COMSDIS 706(P), COMSDIS 725(P), and COMSDIS 732(C); or consent of graduate advisor.**Course Rules:** Repeatable to 4 credit max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 732 Speech Language Pathology Internship Lab in the Education Environment**

4 cr. Graduate.

Supervised clinical experience in educational environments. Correlated with COMSDIS 731.

**Prerequisites:** graduate standing, COMSDIS 660(P) or COMSDIS 706(P), COMSDIS 725(P), and previous completion or concurrent enrollment in COMSDIS 731; or consent of graduate advisor.**Course Rules:** May be repeated to 8 cr max. Satisfactory/Unsatisfactory only.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 770 Clinical Practice in Audiologic Assessment**

3 cr. Graduate.

Supervised clinical experience at Community Audiology Services, West Allis, WI. Activities include audiologic assessment and (re)habilitation with children and adults (adult emphasis).

**Prerequisites:** grad st; ComSDis 670(521); cons instr.**Course Rules:** Counts as repeat of ComSDis 906.**Last Taught:** Spring 2010, Fall 2009, Summer 2009, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 771 Clinical Practice in Audiologic (Re)Habilitation:**

2-3 cr. Graduate.

Supervised experience in audiologic (re)habilitation with pediatric or adult clients at on-campus or community sites.

**Prerequisites:** grad st; ComSDis 670(521) & 706 (for pediatric placements); cons instr.**Course Rules:** Counts as repeat of ComSDis 907. May be repeated to 4 cr max.**Last Taught:** Summer 2020, Fall 2019, Summer 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 784 Professional Portfolio Development I**

1 cr. Graduate.

Students are guided through the second (working) review of their professional development portfolios.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 785 Professional Portfolio Development II**

1 cr. Graduate.

Students are guided through the final process of designing a professional development portfolio.

**Prerequisites:** grad st; ComSDis 784(P).**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 790 Research and Thesis**

1-6 cr. Graduate.

Independent research and writing under the supervision of a graduate faculty member.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 791 Research Experience in Communication Sciences and Disorders**

1-3 cr. Graduate.

Supervised research in communication sciences and disorders under the direction of an approved mentor.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 799 Independent Studies**

1-3 cr. Graduate.

Independent pursuit of a creative project designed by the student and supervised by a faculty or instructional academic staff member.

**Prerequisites:** grad st; cons grad advisor.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMSDIS 802 Seminar in Applied Phonology:**

1 cr. Graduate.

Specific topic and any additional prerequisites announced in the Timetable each time the course is offered. May be repeated w/chg in topic to 7 cr max.

**Prerequisites:** grad st; cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 804 Seminar in Stuttering and Fluency:**

1 cr. Graduate.

Specific topic and any additional prerequisites announced in the Timetable each time the course is offered.

**Prerequisites:** grad st; cons instr.

**Course Rules:** May be repeated w/chg in topic to 7 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Summer 2013, Summer 2010, Summer 2008, Spring 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMSDIS 909 Guided Teaching Experience in Health Sciences**

3 cr. Graduate.

This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.

**Prerequisites:** graduate standing, one of the following: ATRAIN 900(P), OCCTHPY 900(P), PRPP 900(P), or PT 900(P), and consent of instructor.

**Course Rules:** Satisfactory/Unsatisfactory only. ATRAIN 909, BMS 909, COMSDIS 909, HCA 909, KIN 909, OCCTHPY 909, PT 909, and PRPP 909 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Comparative Literature (COMPLIT)

**COMPLIT 133 Contemporary Imagination in Literature and the Arts**

3 cr. Undergraduate.

Introduction to comparative literature, focusing on the study of world literatures and their relations to other arts, and to cultural and social currents.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 135 Experiencing Literature in the 21st Century:**

3 cr. Undergraduate.

Critical study of literary forms (e.g. romance, comedy, short story) and their connections with other arts and media, such as cinema, TV, and music.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 199 Independent Study**

1-6 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Summer 2011, Spring 2011, Spring 2010, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 207 Global Literature from Antiquity to the 1600s:**

3 cr. Undergraduate.

Literary analysis through a survey of world literature from antiquity through the 1600s.

**Prerequisites:** none.

**Course Rules:** May not be retaken for cr.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 208 Global Literature from the 17th Century to the Present:**

3 cr. Undergraduate.

Literary analysis through a survey of world literature from the 1600s to the present.

**Prerequisites:** none.

**Course Rules:** May not be retaken for cr.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 230 Literature and Society:**

3 cr. Undergraduate.

Relationships between literature and aspects of society, e.g., philosophical movements; history; gender, race, class, or sexuality.

**Prerequisites:** none.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2020, Spring 2018, Summer 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 231 Literature and Religion:**

3 cr. Undergraduate.

A close study of the interrelationship of literature and religion across a wide historical spectrum.

**Prerequisites:** none.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2021, Fall 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 232 Literature and Politics:**

3 cr. Undergraduate.

Multiple ways literature and politics shape and influence one another, with particular focus on links between literary and political representation.

**Prerequisites:** COMPLIT 133(R).

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2013, Fall 2009, Spring 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 233 Literature and Film:**

3 cr. Undergraduate.

Themes, styles, and ideology in cinematic and literary texts.

**Prerequisites:** none.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2022, Fall 2021, Fall 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 289 Internship in Comparative Literature, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of comparative literature in a business, organizational, educational, political, or other appropriate settings.

**Prerequisites:** CompLit 100- or 200-level course; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2022, Spring 2022, Fall 2019, Summer 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 309 Great Works of Modern Literature:**

3 cr. Undergraduate/Graduate.

Literature of the twentieth and twenty-first centuries, with emphasis on theme, movement, trend, genre, or mode.

**Prerequisites:** jr st; CompLit 207(R) or 208(R).**Course Rules:** May be retaken w/chg in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 309G Great Works of Modern Literature:**

3 cr. Undergraduate/Graduate.

Literature of the twentieth and twenty-first centuries, with emphasis on theme, movement, trend, genre, or mode.

**Prerequisites:** jr st; CompLit 207(R) or 208(R).**Course Rules:** May be retaken w/chg in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 316 World Cinema:**

3 cr. Undergraduate.

National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms.

**Prerequisites:** jr. st or English 290(P); satisfaction of OWC-A.**Course Rules:** Retakable w/chg in topic to 9 cr max. CompLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 340 Studies in Literary Genres and Modes:**

3 cr. Undergraduate/Graduate.

Literary genres and modes from at least one international cultural context.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 340G Studies in Literary Genres and Modes:**

3 cr. Undergraduate/Graduate.

Literary genres and modes from at least one international cultural context.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 350 Topics in Comparative Literature:**

3 cr. Undergraduate/Graduate.

One or more areas of comparative literature across periods, genres, or regions.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 350G Topics in Comparative Literature:**

3 cr. Undergraduate/Graduate.

One or more areas of comparative literature across periods, genres, or regions.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 360 Seminar in Literature and Cultural Experience:**

3 cr. Undergraduate/Graduate.

How culture is expressed in literary works with specific emphasis on how dominant and marginalized groups are represented in literature.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 360G Seminar in Literature and Cultural Experience:**

3 cr. Undergraduate/Graduate.

How culture is expressed in literary works with specific emphasis on how dominant and marginalized groups are represented in literature.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPLIT 365 Literatures and Cultures of the Americas:**

3 cr. Undergraduate/Graduate.

Comparative study of the literatures and cultural expressions of three or more national, ethnic, or linguistic traditions within North and South America and the Caribbean.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**COMPLIT 365G Literatures and Cultures of the Americas:**

3 cr. Undergraduate/Graduate.

Comparative study of the literatures and cultural expressions of three or more national, ethnic, or linguistic traditions within North and South America and the Caribbean.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 381 Honors Seminar:**

3 cr. Undergraduate.

Critical study of a problem in comparative literary relations.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2021, Spring 2017, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 457 Topics in French and Francophone Studies in Translation:**

3 cr. Undergraduate/Graduate.

Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and cultural context.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** COMPLIT 457 & FRENCH 457 are jointly offered; they count as repeats of one another. May be retaken with change in topic to 9 cr max.

**Last Taught:** Summer 2020, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 457G Topics in French and Francophone Studies in Translation:**

3 cr. Undergraduate/Graduate.

Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and cultural context.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** COMPLIT 457 & FRENCH 457 are jointly offered; they count as repeats of one another. May be retaken with change in topic to 9 cr max.

**Last Taught:** Summer 2020, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 461 Film-Fiction Interaction:**

3 cr. Undergraduate/Graduate.

Growth and development of film in conjunction with literary devices (narrative, setting, etc.), novels, plays, biographies, and poetry. Mutual influences of literary and cinematic arts.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 461G Film-Fiction Interaction:**

3 cr. Undergraduate/Graduate.

Growth and development of film in conjunction with literary devices (narrative, setting, etc.), novels, plays, biographies, and poetry. Mutual influences of literary and cinematic arts.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 463 Literary Criticism: Major Authors**

3 cr. Undergraduate/Graduate.

The development of critical theories from Plato to the present.

**Prerequisites:** jr st.

**Last Taught:** Spring 2014, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 463G Literary Criticism: Major Authors**

3 cr. Undergraduate/Graduate.

The development of critical theories from Plato to the present.

**Prerequisites:** jr st.

**Last Taught:** Spring 2014, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 464 Seminar in Comparative Literary Criticism:**

3 cr. Undergraduate/Graduate.

Principles and theories of literary criticism in a given period; major approaches to literature.

**Prerequisites:** jr st, completion of OWC-A; or grad st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 464G Seminar in Comparative Literary Criticism:**

3 cr. Undergraduate/Graduate.

Principles and theories of literary criticism in a given period; major approaches to literature.

**Prerequisites:** jr st, completion of OWC-A; or grad st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 489 Internship in Comparative Literature, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of comparative literature in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in CompLit; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2017, Fall 2016, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 699 Advanced Independent Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a Complit faculty or instructional academic staff member. For further information, consult Complit prog coord.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2017, Spring 2017, Summer 2016, Summer 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPLIT 789 Graduate Internship in Comparative Literature**

1-31 cr. Graduate.

Application of advanced principles of comparative literature in a business, organizational, educational, political, cultural, or other appropriate setting. Retakable to 6 cr max.

**Prerequisites:** grad st; 3.0 GPA; cons supervising faculty member.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Computer Science (COMPSCI)

**COMPSCI 101 Introduction to PC Application Software**

3 cr. Undergraduate.

Introduction to software applications of the personal computer, including word processing, desktop publishing, spreadsheets, and databases.

**Prerequisites:** none.

**Course Rules:** Not open to COMPSCI students for credit.

**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 111 Introduction to Unix**

1 cr. Undergraduate.

Introduction to basic user skills for Unix operating systems. File system structure and access control. Basic user commands. Text editing. Internet utilities.

**Prerequisites:** none.

**Last Taught:** Fall 2010, Fall 2009, Spring 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 112 Introduction to the Internet and the World Wide Web**

3 cr. Undergraduate.

Survey of the technologies that enable common Internet applications and their security/privacy issues. Topics include HTTP, TCP/IP, DNS, email protocols, search engines, encryption, digital signatures and malware.

**Prerequisites:** none.

**Last Taught:** Fall 2012, Fall 2011, Fall 2009, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 113 Introduction to Web Document Production**

3 cr. Undergraduate.

An introduction to the computer languages used in World Wide Web documents. Design principles; techniques for form processing and inclusion of multimedia content.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Spring 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 132 Introduction to Computers and Programming**

3 cr. Undergraduate.

How computers work; communicating with computers; introductory programming in a high-level language; elementary problem solving.

**Prerequisites:** Level 30 on Math Placement Test or MATH 105(C).

**Last Taught:** Spring 2010, Spring 2009, Fall 2007, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 140 Introduction to the Computer Science Laboratories**

1 cr. Undergraduate.

Survey of the programming tools available in the Computer Science laboratory environment.

**Prerequisites:** COMPSCI 201(C).

**Last Taught:** Fall 2008, Spring 2008, Fall 2007, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 150 Survey of Computer Science**

3 cr. Undergraduate.

A survey of computer science. Topics include data storage and manipulation, operating systems and networks, algorithms and data structures, programming languages, artificial intelligence, and computability.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of COMPSCI 299 with similar topic.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 151 Introduction to Scientific Programming in Fortran**

3 cr. Undergraduate.

Design and implementation of computer programs in fortran; stress will be placed on applications to different fields of science and engineering.

**Prerequisites:** MATH 231(C) or MATH 226(C).

**Last Taught:** Spring 2020, Spring 2018, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 160 Introduction to Computer Game Design and Programming**

3 cr. Undergraduate.

An overview of computer game history; design concepts and considerations; implementation using a modern software development platform, such as GameMaker.

**Prerequisites:** none.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 202 Introductory Programming Using Python**

3 cr. Undergraduate.

Programming in Python. Basic control structures including recursion. Basic and library data types. Problem solving with objects. Writing classes. Basic software development skills.

**Prerequisites:** Level 30 on Math Placement Test, or a grade of C or better in MATH 105, MATH 108, or MATH 116.

**Course Rules:** Not open for students who have taken COMPSCI 251.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 240 Introduction to Engineering Programming**

3 cr. Undergraduate.

Problem solving with structured programming techniques using an engineering oriented programming language, such as MATLAB, including control structures, functions, arrays and matrices.

**Prerequisites:** Math Placement Level 40 or MATH 116(P).

**Last Taught:** Spring 2022, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 241 C Programming for Embedded Systems**

3 cr. Undergraduate.

Problem solving with structured programming techniques, using the C programming language; Topics include using arrays and pointers, memory management, unions, structures, files and low level IO, and process's and inter-process communication.

**Prerequisites:** a grade of C or better in COMPSCI 202(P), COMPSCI 240(P), or COMPSCI 250(P).

**Last Taught:** Spring 2022, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 250 Introductory Computer Programming**

3 cr. Undergraduate.

Problem solving with structured programming techniques using an object-oriented programming language, including control structures, functions, arrays, vectors, and pre-defined objects.

**Prerequisites:** Math Placement level 30.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 251 Intermediate Computer Programming**

3 cr. Undergraduate.

Problem solving with objects. Writing classes. Use of standard data structures. Basic software development skills including text analysis tools, debugging, and configuration management.

**Prerequisites:** Math Placement Level 40 or 45; or MATH 115(P), MATH 116(P), MATH 211(P), MATH 221(P), or MATH 231(P); and a grade of C or better in COMPSCI 250(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 290 Introductory Topics in Computer Science:**

1-3 cr. Undergraduate.

Lectures on new introductory material in computer science. Variable-content course.

**Prerequisites:** specific courses dependent on topic.

**Course Rules:** May be retaken to max of 6 cr with change in topic.

**Last Taught:** Fall 2017, Spring 2017, Summer 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 315 Introduction to Computer Organization and Assembly Language Programming**

3 cr. Undergraduate.

Introduction to number systems, arithmetic and Boolean operations.

Digital computer organization. A specific computer system, assembly and machine language programming.

**Prerequisites:** Math Placement Level 40 or MATH 116(P) or

MATH 211(P); COMPSCI 250(P).

**Last Taught:** Spring 2022, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 317 Discrete Information Structures**

3 cr. Undergraduate.

Introductory discussion of logic, proof techniques, sets, functions, relations, combinatorics, probability, and graphs.

**Prerequisites:** Math Placement Level of 35 or higher, or a grade of C or better in MATH 115(P), MATH 116(P) or MATH 211(P); and a grade of C or better in COMPSCI 250(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 318 Topics in Discrete Mathematics**

3 cr. Undergraduate.

Number theory topics related to cryptography; discrete structures including graphs, partial orders, Latin squares and block designs; advanced counting techniques.

**Prerequisites:** a grade of C or better in COMPSCI 317(P) or MATH 341(P).

**Course Rules:** COMPSCI 318 and MATH 318 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 337 System Programming**

3 cr. Undergraduate.

Introduction to the application programmer interface for a modern operating system. Overview of mechanisms for object oriented programming and memory management

**Prerequisites:** a grade of C or better in COMPSCI 251(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 351 Data Structures and Algorithms**

3 cr. Undergraduate.

Programming in a structured, high-level, object-oriented language.

Implementation of data structures and algorithms and their application.

**Prerequisites:** Math Placement Level 40 or MATH 116(P) or

MATH 211(P); a grade of C or better in COMPSCI 251(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 361 Introduction to Software Engineering**

3 cr. Undergraduate.

Introduction to core topics of software engineering including requirements analysis, object-oriented design, testing, and project management. Overview of ethical and social issues in computing.

**Prerequisites:** a grade of C or better in COMPSCI 351 (P), satisfaction of GER English Composition competency requirement.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 395 Social, Professional, and Ethical Issues**

3 cr. Undergraduate.

The social, professional and ethical issues that arise in the context of professional computing.

**Prerequisites:** sophomore standing or consent of instructor.

**Last Taught:** Spring 2022, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 411 Machine Learning and Applications**

3 cr. Undergraduate/Graduate.

Important topics and application in machine learning, including deep learning. Provides hands-on experience with machine learning software and libraries.

**Prerequisites:** completion of one of the following: COMPSCI 202(P), COMPSCI 241 (P), or COMPSCI 250(P); or consent of instructor.

**Course Rules:** COMPSCI 411 and ELECENG 411 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 411G Machine Learning and Applications**

3 cr. Undergraduate/Graduate.

Important topics and application in machine learning, including deep learning. Provides hands-on experience with machine learning software and libraries.

**Prerequisites:** completion of one of the following: COMPSCI 202(P), COMPSCI 241 (P), or COMPSCI 250(P); or consent of instructor.

**Course Rules:** COMPSCI 411 and ELECENG 411 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 417 Introduction to the Theory of Computation**

3 cr. Undergraduate/Graduate.

Introduction to formal languages, grammars and automata. Finite state automata, pushdown automata, turing machines. Regular, context-free recursive and recursively enumerable languages. Decidability.

**Prerequisites:** junior standing and a grade of C or better in COMPSCI 317(P) or MATH 341(P).

**Last Taught:** Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 417G Introduction to the Theory of Computation**

3 cr. Undergraduate/Graduate.

Introduction to formal languages, grammars and automata. Finite state automata, pushdown automata, turing machines. Regular, context-free recursive and recursively enumerable languages. Decidability.

**Prerequisites:** junior standing and a grade of C or better in COMPSCI 317(P) or MATH 341(P).

**Last Taught:** Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 422 Introduction to Artificial Intelligence**

3 cr. Undergraduate/Graduate.

Introduction to core techniques and broad survey of AI. Topics include: Lisp, heuristic search, knowledge representation, planning, vision, learning.

**Prerequisites:** junior standing; a grade of C or better in COMPSCI 317(P) and COMPSCI 351(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 422G Introduction to Artificial Intelligence**

3 cr. Undergraduate/Graduate.

Introduction to core techniques and broad survey of AI. Topics include: Lisp, heuristic search, knowledge representation, planning, vision, learning.

**Prerequisites:** junior standing; a grade of C or better in COMPSCI 317(P) and COMPSCI 351(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 423 Introduction to Natural Language Processing**

3 cr. Undergraduate/Graduate.

Introduction to natural language processing programs and an overview of the field. Topics include syntactic frameworks, parsing, semantics, interpretation, and applications.

**Prerequisites:** junior standing and a grade of C or better in COMPSCI 351(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 423G Introduction to Natural Language Processing**

3 cr. Undergraduate/Graduate.

Introduction to natural language processing programs and an overview of the field. Topics include syntactic frameworks, parsing, semantics, interpretation, and applications.

**Prerequisites:** junior standing and a grade of C or better in COMPSCI 351(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 425 Introduction to Data Mining**

3 cr. Undergraduate/Graduate.

Algorithms for uncovering useful information from data. Topics include data exploration, association rules, clustering, supervised learning, and mining structured data (e.g., sequences or graphs).

**Prerequisites:** junior standing; COMPSCI 251(P), MATH 221(P) or MATH 232(P).

**Course Rules:** Counts as repeat of COMPSCI 657 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 425G Introduction to Data Mining**

3 cr. Undergraduate/Graduate.

Algorithms for uncovering useful information from data. Topics include data exploration, association rules, clustering, supervised learning, and mining structured data (e.g., sequences or graphs).

**Prerequisites:** junior standing; COMPSCI 251(P), MATH 221(P) or MATH 232(P).

**Course Rules:** Counts as repeat of COMPSCI 657 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 431 Programming Languages Concepts**

3 cr. Undergraduate/Graduate.

Examination of abstract features of languages. Study of syntactic and semantic models; design and programming in procedural, object-oriented, functional and logical languages. Implementation methods.

**Prerequisites:** junior standing and a grade of C or better in COMPSCI 351(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 431G Programming Languages Concepts**

3 cr. Undergraduate/Graduate.

Examination of abstract features of languages. Study of syntactic and semantic models; design and programming in procedural, object-oriented, functional and logical languages. Implementation methods.

**Prerequisites:** junior standing and a grade of C or better in COMPSCI 351(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 443 Intelligent User Interfaces and Usability Assessment**

3 cr. Undergraduate.

Critical reading and discussion of scientific literature on the principles, methods, and current research in intelligent user interfaces including applications, architectures, and evaluation.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Spring 2022, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 444 Introduction to Text Retrieval and Its Applications in Biomedicine**

3 cr. Undergraduate/Graduate.

Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.

**Prerequisites:** junior standing; COMPSCI 351(P) or HCA 442(P).

**Course Rules:** COMPSCI 444 and HCA 444 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 444G Introduction to Text Retrieval and Its Applications in Biomedicine**

3 cr. Undergraduate/Graduate.

Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.

**Prerequisites:** junior standing; COMPSCI 351(P) or HCA 442(P).

**Course Rules:** COMPSCI 444 and HCA 444 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 458 Computer Architecture**

3 cr. Undergraduate/Graduate.

Processor organization, memory hierarchy, pipelining, computer architectures exploiting instruction/data/thread level parallelism, warehouse scale computers.

**Prerequisites:** sophomore standing and a grade of C or better in COMPSCI 241(P) or COMPSCI 251(P).

**Course Rules:** COMPSCI 458 and ELECENG 458 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 458G Computer Architecture**

3 cr. Undergraduate/Graduate.

Processor organization, memory hierarchy, pipelining, computer architectures exploiting instruction/data/thread level parallelism, warehouse scale computers.

**Prerequisites:** sophomore standing and a grade of C or better in COMPSCI 241(P) or COMPSCI 251(P).

**Course Rules:** COMPSCI 458 and ELECENG 458 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 459 Fundamentals of Computer Graphics**

3 cr. Undergraduate/Graduate.

Scan-line algorithms, object representation, homogeneous coordinates, geometric transformations, viewing curves, illumination models, interactive input methods, texture mapping.

**Prerequisites:** junior standing and COMPSCI 251(P); and MATH 211(P), MATH 213(P), MATH 221(P), or MATH 231(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 459G Fundamentals of Computer Graphics**

3 cr. Undergraduate/Graduate.

Scan-line algorithms, object representation, homogeneous coordinates, geometric transformations, viewing curves, illumination models, interactive input methods, texture mapping.

**Prerequisites:** junior standing and COMPSCI 251(P); and MATH 211(P), MATH 213(P), MATH 221(P), or MATH 231(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 469 Introduction to Computer Security**

3 cr. Undergraduate/Graduate.

Privacy and authenticity of data and programs, communication, operating systems, network and database security, computer viruses, cryptography, private and public key cryptosystems, protocols.

**Prerequisites:** junior standing; a grade of C or better in both COMPSCI 317(P) and COMPSCI 251(P).

**Last Taught:** Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 469G Introduction to Computer Security**

3 cr. Undergraduate/Graduate.

Privacy and authenticity of data and programs, communication, operating systems, network and database security, computer viruses, cryptography, private and public key cryptosystems, protocols.

**Prerequisites:** junior standing; a grade of C or better in both COMPSCI 317(P) and COMPSCI 251(P).

**Last Taught:** Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 481 Server-side Internet Programming**

3 cr. Undergraduate/Graduate.

Introduces students to the concept of server-side programming and web applications development. Topics include dynamic web site development, session management, security, and relational databases.

**Prerequisites:** junior standing; one of COMPSCI 113(P), INFOST 320(P), or ART 324(P); a grade of C or better in COMPSCI 202(P), COMPSCI 361(P) or COMPST 702(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 481G Server-side Internet Programming**

3 cr. Undergraduate/Graduate.

Introduces students to the concept of server-side programming and web applications development. Topics include dynamic web site development, session management, security, and relational databases.

**Prerequisites:** junior standing; one of COMPSCI 113(P), INFOST 320(P), or ART 324(P); a grade of C or better in COMPSCI 202(P), COMPSCI 361(P) or COMPST 702(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 482 Rich Internet Applications**

3 cr. Undergraduate/Graduate.

Create standard-compliant web applications using client-side JavaScript and the Document Object Model.

**Prerequisites:** junior standing; COMPSCI 361(P) or COMPSCI 481(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 482G Rich Internet Applications**

3 cr. Undergraduate/Graduate.

Create standard-compliant web applications using client-side JavaScript and the Document Object Model.

**Prerequisites:** junior standing; COMPSCI 361(P) or COMPSCI 481(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 511 Symbolic Logic**

3 cr. Undergraduate/Graduate.

First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.

**Prerequisites:** junior standing; PHILOS 212(P) or 6 cr of Math at the 300-level or above; or graduate standing.

**Course Rules:** COMPSCI 511, MATH 511 and PHILOS 511 are jointly offered and count as repeat of each other.

**Last Taught:** Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 511G Symbolic Logic**

3 cr. Undergraduate/Graduate.

First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.

**Prerequisites:** junior standing; PHILOS 212(P) or 6 cr of Math at the 300-level or above; or graduate standing.

**Course Rules:** COMPSCI 511, MATH 511 and PHILOS 511 are jointly offered and count as repeat of each other.

**Last Taught:** Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 520 Computer Networks**

3 cr. Undergraduate/Graduate.

Layered network architecture, protocols, data transmission, local area networks, multiplexing and switching, routing flow and congestion control, internetworking, wireless networking, network reliability and security.

**Prerequisites:** junior standing; COMPSCI 315(P), COMPSCI 458(P) or ELECENG 367(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 520G Computer Networks**

3 cr. Undergraduate/Graduate.

Layered network architecture, protocols, data transmission, local area networks, multiplexing and switching, routing flow and congestion control, internetworking, wireless networking, network reliability and security.

**Prerequisites:** junior standing; COMPSCI 315(P), COMPSCI 458(P) or ELECENG 367(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 522 Computer Game Design**

3 cr. Undergraduate/Graduate.

Design of rules, environments, rewards, and punishments, Game metrics, Including artificial intelligence in games, Puzzle generation, Automatic design, Humanness test, Influence maps, Diversity, Unpredictability.

**Prerequisites:** junior standing and a grade of C or better in COMPSCI 317(P).

**Course Rules:** Counts as repeat of COMPSCI 657 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 522G Computer Game Design**

3 cr. Undergraduate/Graduate.

Design of rules, environments, rewards, and punishments, Game metrics, Including artificial intelligence in games, Puzzle generation, Automatic design, Humanness test, Influence maps, Diversity, Unpredictability.

**Prerequisites:** junior standing and a grade of C or better in COMPSCI 317(P).

**Course Rules:** Counts as repeat of COMPSCI 657 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 530 Computer Networks Laboratory**

3 cr. Undergraduate/Graduate.

Experimentation with Wired and Wireless Computer Networks Design. Data Link and MAC Protocols, LANs, WANs, Routing, Transport Layer Protocols, Congestion Control, Network Security, Network Management.

**Prerequisites:** junior standing and COMPSCI 520(P).

**Last Taught:** Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 530G Computer Networks Laboratory**

3 cr. Undergraduate/Graduate.

Experimentation with Wired and Wireless Computer Networks Design. Data Link and MAC Protocols, LANs, WANs, Routing, Transport Layer Protocols, Congestion Control, Network Security, Network Management.

**Prerequisites:** junior standing and COMPSCI 520(P).

**Last Taught:** Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 535 Algorithm Design and Analysis**

3 cr. Undergraduate/Graduate.

Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation.

**Prerequisites:** junior standing; MATH 211(P), MATH 213(P), MATH 221(P) or MATH 231(P); a grade of C or better in COMPSCI 351(P) and COMPSCI 317(P); or MATH 341(P) and MTHSTAT 361(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 535G Algorithm Design and Analysis**

3 cr. Undergraduate/Graduate.

Introduction to abstract data structures, analysis of time and space requirements of numerical and non-numerical algorithms methods for data manipulation.

**Prerequisites:** junior standing; MATH 211(P), MATH 213(P), MATH 221(P) or MATH 231(P); a grade of C or better in COMPSCI 351(P) and COMPSCI 317(P); or MATH 341(P) and MTHSTAT 361(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 536 Software Engineering**

3 cr. Undergraduate/Graduate.

Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming.

**Prerequisites:** junior standing and a grade of C or better in COMPSCI 251(P).

**Last Taught:** Spring 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 536G Software Engineering**

3 cr. Undergraduate/Graduate.

Software engineering, the software life cycle, qualities of software; design, specification and verification of software, programming environments and tools, object oriented programming.

**Prerequisites:** junior standing and a grade of C or better in COMPSCI 251(P).

**Last Taught:** Spring 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 537 Introduction to Operating Systems**

3 cr. Undergraduate/Graduate.

Process management including process creation, switching, multithreading, scheduling, communication and concurrency control; memory management including paging, segmentation and virtual memory; systems programming.

**Prerequisites:** junior standing; COMPSCI 337(P); and COMPSCI 458(C) or ELECENG 458(C).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 537G Introduction to Operating Systems**

3 cr. Undergraduate/Graduate.

Process management including process creation, switching, multithreading, scheduling, communication and concurrency control; memory management including paging, segmentation and virtual memory; systems programming.

**Prerequisites:** junior standing; COMPSCI 337(P); and COMPSCI 458(C) or ELECENG 458(C).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 545 FPGA Embedded CPUs & Firmware Development**

3 cr. Undergraduate/Graduate.

Use of modern embedded system central processor units (CPUs) with integrated field-programmable gate arrays (FPGAs). Design and implementation of firmware for these devices.

**Prerequisites:** junior standing, ELECENG 367(P) and ELECENG 457(P).

**Course Rules:** COMPSCI 545 and ELECENG 545 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 545G FPGA Embedded CPUs & Firmware Development**

3 cr. Undergraduate/Graduate.

Use of modern embedded system central processor units (CPUs) with integrated field-programmable gate arrays (FPGAs). Design and implementation of firmware for these devices.

**Prerequisites:** junior standing, ELECENG 367(P) and ELECENG 457(P).

**Course Rules:** COMPSCI 545 and ELECENG 545 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 547 User-Centered Interaction Design**

3 cr. Undergraduate/Graduate.

Introduction of human-computer interaction theories and design processes. Emphasis is on applied user experience (UX) design.

**Prerequisites:** senior standing.

**Course Rules:** COMPSCI 547 and INFOST 547 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 547G User-Centered Interaction Design**

3 cr. Undergraduate/Graduate.

Introduction of human-computer interaction theories and design processes. Emphasis is on applied user experience (UX) design.

**Prerequisites:** senior standing.

**Course Rules:** COMPSCI 547 and INFOST 547 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 552 Advanced Object-Oriented Programming**

3 cr. Undergraduate/Graduate.

An advanced course in object-oriented programming. Abstraction; single and multiple inheritance; dynamic binding of functions; polymorphic types and operators; survey of object-oriented techniques.

**Prerequisites:** junior standing and a grade of C or better in both COMPSCI 351(P) and COMPSCI 361(P).

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 552G Advanced Object-Oriented Programming**

3 cr. Undergraduate/Graduate.

An advanced course in object-oriented programming. Abstraction; single and multiple inheritance; dynamic binding of functions; polymorphic types and operators; survey of object-oriented techniques.

**Prerequisites:** junior standing and a grade of C or better in both COMPSCI 351(P) and COMPSCI 361(P).

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 557 Introduction to Database Systems**

3 cr. Undergraduate/Graduate.

General database system concepts. Physical data organization. Data models and database systems. Database design theory. Query optimization. Transaction management. Logic and database.

**Prerequisites:** junior standing and COMPSCI 251(P) or equivalent.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 557G Introduction to Database Systems**

3 cr. Undergraduate/Graduate.

General database system concepts. Physical data organization. Data models and database systems. Database design theory. Query optimization. Transaction management. Logic and database.

**Prerequisites:** junior standing and COMPSCI 251(P) or equivalent.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 581 Web Languages and Standards**

3 cr. Undergraduate.

Introduction to languages and standards for Web applications, including markup, schema, style, transformation, and metadata languages. Document programming interfaces. Emphasis on programming language principles.

**Prerequisites:** junior standing; COMPSCI 431(P); COMPSCI 417(R).

**Last Taught:** Spring 2009, Spring 2007, Fall 2005, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 594 Capstone Project Preparation**

1 cr. Undergraduate.

Student teams will develop requirements and functionality specifications for their capstone projects and conduct the necessary research on the prior art and technologies to be used.

**Prerequisites:** senior standing.

**Course Rules:** Meant to be taken in the semester immediately prior to the one in which the student will take COMPSCI 595.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 595 Capstone Project**

3 cr. Undergraduate.

Students will integrate their knowledge of the undergraduate computer science curriculum by implementing a significant computer science team project.

**Prerequisites:** senior standing, COMPSCI 351(P), COMPSCI 361(P), COMPSCI 594(P) and credit in at least 6 credits of 400 or higher COMPSCI or ELECENG courses.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 599 Senior Thesis**

3 cr. Undergraduate.

Independent scholarly research in Computer Science supervised by a faculty member.

**Prerequisites:** senior standing and consent of instructor.

**Last Taught:** Fall 2021, Spring 2019, Spring 2018, Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 620 Undergraduate Seminar in Algorithms:**

1 cr. Undergraduate.

Variable topics seminar in algorithms.

**Prerequisites:** COMPSCI 535(P).

**Course Rules:** Retakable to 6 cr max with change in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 654 Introduction to Compilers**

3 cr. Undergraduate.

Fundamentals of compiler construction for modern programming languages. Syntax analysis, table organization, storage administration, semantic routines and code generation

**Prerequisites:** junior standing, COMPSCI 431(P), and COMPSCI 655(C).

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 655 Compiler Implementation Laboratory**

3 cr. Undergraduate/Graduate.

Implementation of compiler phases: scanner, parser, semantic analysis; code generation and optimization.

**Prerequisites:** Prereq. junior standing, COMPSCI 431(P); COMPSCI 654(C) or COMPSCI 754(C).

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 655G Compiler Implementation Laboratory**

3 cr. Undergraduate/Graduate.

Implementation of compiler phases: scanner, parser, semantic analysis; code generation and optimization.

**Prerequisites:** Prereq. junior standing, COMPSCI 431(P); COMPSCI 654(C) or COMPSCI 754(C).

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 657 Topics in Computer Science:**

1-4 cr. Undergraduate/Graduate.

Lectures on recent advances in computer science. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 657G Topics in Computer Science:**

1-4 cr. Undergraduate/Graduate.

Lectures on recent advances in computer science. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**COMPSCI 658 Topics in Applied Computing:**

1-4 cr. Undergraduate.

Lectures on recent advances in applied computing. Specific credits and any additional prerequisites will be announced in Schedule of Classes whenever course is offered.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2021, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 699 Independent Study**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken to max of 6 cr by undergraduates.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 699G Independent Study**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken to max of 6 cr by undergraduates.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 700 CEAS Graduate Seminar**

1-3 cr. Graduate.

Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.

**Prerequisites:** graduate standing.

**Course Rules:** CIV ENG 700, COMPSCI 700, ELECENG 700, IND ENG 700, MATLENG 700 and MECHENG 700 are jointly offered and count as repeats of one another

**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 704 Analysis of Algorithms**

3 cr. Graduate.

Introduction to concrete complexity theory and efficient algorithms. Fast data structure and graph algorithms, matrix multiplication, algebraic and numeric algorithms, reducibilities and np-completeness. Exponential and non-elementary lower bounds.

**Prerequisites:** graduate standing, COMPSCI 217(P) and COMPSCI 535(P).

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 708 Scientific Computing**

3 cr. Graduate.

Fundamental algorithms and practical issues of scientific computing, including Monte Carlo simulations, data fitting, fast Fourier transform, optimization, numerical integration & differentiation, parallel computing, selected biomedical applications.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2020, Fall 2018, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 710 Artificial Intelligence**

3 cr. Graduate.

AI programming, search techniques game playing, knowledge representation, knowledge acquisition, expert systems, selected topics from learning. Natural language understanding, vision and robotics.

**Prerequisites:** graduate standing, COMPSCI 351 or COMPST 751, and COMPSCI 535(P).

**Course Rules:** COMPSCI 710 and ELECENG 710 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2021, Fall 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 711 Introduction to Machine Learning**

3 cr. Graduate.

Introduction to machine learning techniques and applications, including optimal classification, regression, support vector machines, boosting, deep learning, and clustering.

**Prerequisites:** graduate standing.

**Course Rules:** COMPSCI 711 and ELECENG 711 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 712 Image Processing**

3 cr. Graduate.

This course covers the materials required to process and enhance photographic images, remote sensor multispectral scanner data and others. Topics include transform techniques, recorders, discriminate function, and associated hardware.

**Prerequisites:** graduate standing.

**Course Rules:** COMPSCI 712 and ELECENG 712 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 714 Computational Geometry**

3 cr. Graduate.

Special data structures and algorithmic techniques for representing and manipulating geometric objects, such as points, lines and polygons. Applications to vlsi design and robotics.

**Prerequisites:** graduate standing and COMPSCI 535(P).

**Last Taught:** Fall 2012, Spring 2010, Fall 2006, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 715 Programming for Machine Learning**

3 cr. Graduate.

Introduction of Python for machine learning. including Python constructs, imperative, functional, and object-oriented programming using Python, Python's concurrency models, and its applications in machine learning and scientific computing.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 718 Advanced Computer Graphics: Modeling and Animation**

3 cr. Graduate.

Advanced graphics topics on mesh processing, illumination models, ray-tracing, and volumetric data visualization; popular animation approaches such as keyframes, particles, fluids and rigid bodies.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2021, Spring 2019, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 720 Computational Models of Decision Making**

3 cr. Graduate.

Theoretical foundations and practical problems of formulating and constructing computational models of decision making.

**Prerequisites:** basic course in Probability or Statistics.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 722 Artificial Intelligence Planning Techniques**

3 cr. Graduate.

Algorithms and representations for classical and more expressive planning, search control techniques, study and comparison of a variety of planners, applications of planning.

**Prerequisites:** graduate standing and COMPSCI 535(P).

**Last Taught:** Fall 2011, Spring 2008, Spring 2006, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 723 Natural Language Processing**

3 cr. Graduate.

Principles and problems of natural language processing with emphasis on recent advances and open problems. Topics: lexicons, parsing, interpretation, discourse structure, generation, and collaborative interfaces.

**Prerequisites:** graduate standing and COMPSCI 351 or COMPST 751.

**Course Rules:** Not open to students with credit in COMPSCI 423.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 724 Distributed Algorithms**

3 cr. Graduate.

Identification of canonical problems in distributed computing, design and analysis of algorithms to solve these problems. Formal proof techniques and impossibility results.

**Prerequisites:** graduate standing and COMPSCI 517(P), COMPSCI 535(P), or COMPSCI 523(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 725 Robot Motion Planning**

3 cr. Graduate.

Configuration space, C-obstacles, sampling-based algorithms, potential fields, coverage, hierarchical motion planning, human control, relaxation, moving or deformable obstacles, multirobot motion planning, metrics, outdoor planning.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 729 Real-Time Operating Systems**

3 cr. Graduate.

Fundamentals of real-time operating systems with emphasis on scheduling and resource management.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 730 Advanced Computer Networks**

3 cr. Graduate.

Network architecture, protocols, routing, congestion control, traffic management, ATM, optical networks, TCP/IP, LANs, WANs, QOS, wireless and mobile networks, mobility management, security, multimedia, network management.

**Prerequisites:** COMPSCI 520(P).

**Last Taught:** Fall 2019, Fall 2014, Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 732 Type Systems for Programming Languages**

3 cr. Graduate.

Lambda calculus, simple types, record types, subtypes, polymorphic types, type reconstruction, universal types, bounded quantification, higher-order types.

**Prerequisites:** graduate standing and COMPSCI 431(P).

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 737 Software Project Management**

3 cr. Graduate.

Concepts and techniques for management of large software projects. Life cycle models; team organization; cost estimation and budgeting; schedule and risk management; software metrics.

**Prerequisites:** graduate standing and COMPSCI 361(P) or equivalent.

**Last Taught:** Spring 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 738 Program Analysis for Software Engineering**

3 cr. Graduate.

Static techniques for determining run-time properties of a program: data-flow analysis, abstract interpretation.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2023, Spring 2021, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 743 Intelligent User Interfaces**

3 cr. Graduate.

Principles, methods, and current research in intelligent user interfaces including applications, architectures, knowledge representation, and evaluation.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Spring 2022, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 744 Text Retrieval and Its Applications in Biomedicine**

3 cr. Graduate.

Fundamental issues and current research in text retrieval, text classification and their biomedical applications; programming and use of indexing, query processing, and document retrieval methods.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** COMPSCI 744 and HI 744 are jointly offered and count as repeats of one another. Not open to students who have cr in COMPSCI 744, COMPSCI 444 or HCA 444.

**Last Taught:** Fall 2021, Spring 2020, Fall 2018, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 747 Principles & Practices of User Interface Design**

3 cr. Graduate.

Principles and practices of user interface design for desktop, web, and mobile applications: interaction principles; UI design elements; user-centered design process and practices.

**Prerequisites:** graduate standing.**Last Taught:** Spring 2016, Spring 2014, Spring 2012, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 754 Compiler Construction and Theory**

3 cr. Graduate.

Fundamentals of compiler construction for modern programming languages. Syntax analysis, table organization, storage administration, semantic routines and code generation.

**Prerequisites:** graduate standing.**Course Rules:** Not open to students with credit in COMPSCI 654.**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 755 Information and Coding Theory**

3 cr. Graduate.

Information measures, entropy, source coding, Shannon's theorems, channel capacity, error correcting codes, linear codes, convolutional codes, arithmetic codes, encoding and decoding algorithms.

**Prerequisites:** graduate standing.**Course Rules:** COMPSCI 755 and ELECENG 755 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 757 Data Base Organization and File Structure**

3 cr. Graduate.

Introduction to automatic information organization and retrieval. Dictionary construction and operation, statistical and syntactic operations, performance evaluation of retrieval systems, design of query languages, models of database systems, database security.

**Prerequisites:** graduate standing; COMPSCI 217(P) and COMPSCI 535(P).**Last Taught:** Spring 2014, Fall 2011, Spring 2010, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 758 Advanced Computer Architecture**

3 cr. Graduate.

Advanced topics in computer architecture including pipeline processing, multiple and parallel processing systems, performance enhancement issues and vlsi computing structures.

**Prerequisites:** graduate standing and COMPSCI 458(NP) or ELECENG 458(NP).**Course Rules:** COMPSCI 758 and ELECENG 758 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2013, Fall 1997, Fall 1995, Spring 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 759 Data Security**

3 cr. Graduate.

Protection of data in computer and communication systems, cryptography, classical one key and public key cryptosystems, database protection, operating system security.

**Prerequisites:** graduate standing and COMPSCI 317(P).**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 760 Computer Systems Performance Evaluation**

3 cr. Graduate.

Performance measurement and tools, workload characterization, markov models, queueing theory, simulation, benchmarks, data analysis, parallel systems performance analysis.

**Prerequisites:** graduate standing, COMPSC 458(P) or ELECENG 458(P).**Course Rules:** COMPSCI 760 and ELECENG 760 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2017, Fall 2016, Fall 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 761 Software Testing and Verification**

3 cr. Graduate.

Software testing techniques: test case generation, test oracles, regression testing, structural testing, test coverage, mutation testing, and model-based testing. Testing for object-oriented and distributed software. Security testing.

**Prerequisites:** graduate standing and COMPSCI 361(P) or equivalent.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 762 Fault-Tolerant Computing**

3 cr. Graduate.

Faults in digital circuits, fault detection, fault location, system reconfiguration or repair, system recovery, design for testability, self-checking circuits, fault-tolerant interconnection networks, systems level fault-diagnosis, fault-tolerant software.

**Prerequisites:** graduate standing and ELECENG 354(P).**Course Rules:** Not open to students with cr for ELECENG 762.**Last Taught:** Spring 2002, Spring 2000, Spring 1997, Spring 1995.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 780 Multimedia Systems**

3 cr. Graduate.

Survey of principles and applications of multimedia computer systems. Media fundamentals. Networking, architecture, software engineering, and user interface issues.

**Prerequisites:** COMPSCI 537(P).**Last Taught:** Spring 2015, Spring 2010, Spring 2005, Fall 2001.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 790 Advanced Topics in Computer Science:**

3 cr. Graduate.

Discussion of special advanced topics in theoretical as well as applied areas in computer science.

**Prerequisites:** graduate standing. Additional prerequisites may be required for scheduled topics and will be published in the Schedule of Classes.**Course Rules:** Retakable with change in topic to 9 cr max. Specific topics may be combined with the curricular code PHILOS.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPSCI 805 Randomized Algorithms; Pseudorandom Numbers**

3 cr. Graduate.

Probabilistic algorithms in number theory, combinatorics, graph theory, and computational geometry. Sorting and searching. Applications to parallel computation. Interactive proofs. Derandomization of algorithms.

**Prerequisites:** COMPSCI 704(P) and COMPSCI 523(R).**Last Taught:** Fall 2013, Fall 2010, Spring 2007, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 810 Knowledge Representation**

3 cr. Graduate.

Study of the design and properties of formalisms for representing knowledge in computational systems. Topics include: first-order logic, nonmonotonic logic, uncertainty, time, space, beliefs, plans.

**Prerequisites:** graduate standing and COMPSCI 710(P).

**Last Taught:** Fall 2014, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 811 Advanced Machine Learning**

3 cr. Graduate.

Advanced topics and applications in machine learning, including deep learning, recurrent neural networks, EM algorithm and clustering, reinforcement learning, Markov models and MCMC, and variational inference.

**Prerequisites:** ELECENG 711(P) or ELECENG 420(P) and COMPSCI 411(P); or consent of instructor.

**Course Rules:** COMPSCI 811 and ELECENG 811 are jointly offered and count as repeats of one another; they also count as a repeat of COMPSCI 890 or ELECENG 890 with similar topic 'Advanced Machine Learning'.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 854 Advanced Compiler Techniques**

3 cr. Graduate.

Details of compiler construction: syntax theory, attribute grammars, implementing advanced language features, optimization

**Prerequisites:** graduate standing and COMPSCI 654(P) or COMPSCI 754(P).

**Last Taught:** Fall 2018, Fall 2015, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 859 Advanced Cryptography and Security Protocols**

3 cr. Graduate.

Elliptic curve cryptography, AES, cryptanalysis, secret sharing, zero knowledge proofs, provable security.

**Prerequisites:** graduate standing; COMPSCI 469(P) and COMPSCI 535(P); or COMPSCI 759(P).

**Last Taught:** Spring 2012, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 870 Medical Informatics Seminar**

1 cr. Graduate.

Presentations by medical informatics affiliated faculty and invited speakers. Graduate students may present their work or published research from recent medical informatics journals or conferences.

**Prerequisites:** graduate standing.

**Course Rules:** Meets once every two weeks for 100 minutes.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 880 Bioengineering Seminar**

1 cr. Graduate.

Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.

**Prerequisites:** graduate standing.

**Course Rules:** CIV ENG 880, COMPSCI 880, ELECENG 880, IND ENG 880, MATLENG 880, and MECHENG 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr max.

**Last Taught:** Spring 2015, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 990 Masters Thesis**

1-4 cr. Graduate.

Masters Thesis.

**Prerequisites:** graduate standing; consent of instructor.

**Course Rules:** Repeatable. Students may not enroll in more than 4 credits per term.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 995 Master's Capstone Project**

1-3 cr. Graduate.

Independent project supervised by student's adviser

**Prerequisites:** graduate standing, consent of instructor and graduate program committee.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 998 Doctoral Thesis**

1-12 cr. Graduate.

**Prerequisites:** graduate standing, consent of instructor and graduate program committee.

**Course Rules:** Repeatable.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPSCI 999 Advanced Independent Study**

1-3 cr. Graduate.

**Prerequisites:** graduate standing, consent of instructor and graduate program committee.

**Course Rules:** Repeatable to 15 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Computer Studies (COMPST)

**COMPST 701 Computing Fundamentals for IT Professionals**

3 cr. Graduate.

A survey of computer science fundamentals. Topics include data storage and manipulation, operating systems and networks, algorithms and data structures, programming languages, artificial intelligence, parallel computing, and computability.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COMPST 702 Introductory Programming Using Python**

3 cr. Graduate.

Programming in Python. Basic control structures including recursion. Basic and library data types. Problem solving with objects. Writing classes. Basic software development skills.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPST 703 Software Development Life Cycle**

3 cr. Graduate.

Introduction to core topics of the software development life cycle including requirements analysis, object-oriented design, testing, maintenance and project management. Overview of ethical and social issues in computing.

**Prerequisites:** COMPSCI 701(P) or equivalent.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPST 750 Problem Solving with Object-Oriented Programming**

3 cr. Graduate.

Problem solving with object-oriented programming language. Topics include arrays, strings, classes, standard data structures, graphical user interfaces, exceptions, files, debugging, and configuration management.

**Prerequisites:** Previous programming experience such as COMPSCI 702(P), COMPSCI 240(P), or COMPSCI 250(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPST 751 Data Structures and Algorithms**

3 cr. Graduate.

Programming in a structured, high-level, object-oriented language. Implementation of data structures and algorithms and their application.

**Prerequisites:** COMPST 750(P); COMPSCI 251(R).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COMPST 790 Advanced Topics in Computer Studies:**

3-9 cr. Graduate.

Discussion of special advanced topics in the study of computing. Retakable with change in topic to 9 cr max.

**Prerequisites:** grad st; add'l prereqs depending on topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Conservation and Environmental Sciences (CES)

**CES 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** Retakable to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 210 Introduction to Conservation and Environmental Science**

3 cr. Undergraduate.

Relations between human populations and resource depletion, pollution and ecosystem disturbance; search for solutions. Discussion section includes some community activities with environmental organization. 2 hrs lec, 1 hr dis

**Prerequisites:** none.**General Education Requirements:** NS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 289 Internship in Environmental Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of environmental studies in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in CES; 2.50 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.**Last Taught:** Fall 2023, Fall 2021, Spring 2011, Summer 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Fall 2022, Spring 2022, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Spring 1984.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 451 Field Methods in Conservation**

3 cr. Undergraduate/Graduate.

Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab.

**Prerequisites:** jr st; Bio Sci 310(P) or equiv or cons instr.**Course Rules:** Jointly offered with and counts as repeat of Bio Sci 451.**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 451G Field Methods in Conservation**

3 cr. Undergraduate/Graduate.

Introduction to methods, techniques and tools for natural area management, including plant/animal surveys, vegetation/habitat description, and incorporating hands-on experience. 2 hr lec, 3 hrs lab.

**Prerequisites:** jr st; Bio Sci 310(P) or equiv or cons instr.**Course Rules:** Jointly offered with and counts as repeat of Bio Sci 451.**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CES 461 The Politics and Policy of Sustainability**

3 cr. Undergraduate/Graduate.

Principles of environmental policy, governance, and management for global sustainability.

**Prerequisites:** junior standing; CES 210(P) or consent of instructor.**Course Rules:** CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 461G The Politics and Policy of Sustainability**

3 cr. Undergraduate/Graduate.

Principles of environmental policy, governance, and management for global sustainability.

**Prerequisites:** junior standing; CES 210(P) or consent of instructor.**Course Rules:** CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 471 Practicum in Natural Resources Management**

4 cr. Undergraduate/Graduate.

Preparation and presentation of a natural resource or environmental management plan for a real-world client. 3 hrs lec, 1 hr dis.

**Prerequisites:** sr st; Bio Sci 310(P); declared CES major; or cons instr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 471G Practicum in Natural Resources Management**

4 cr. Undergraduate/Graduate.

Preparation and presentation of a natural resource or environmental management plan for a real-world client. 3 hrs lec, 1 hr dis.

**Prerequisites:** sr st; Bio Sci 310(P); declared CES major; or cons instr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 489 Internship in Environmental Studies, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of environmental studies in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Conservation & Environmental Sciences; 2.5 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Spring 2023, Fall 2019, Fall 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Spring 2016, Fall 2015, Fall 2014, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 515 Environmental Law for Natural Resource Managers**

3 cr. Undergraduate/Graduate.

Overview of United States environmental and natural resource law.

**Prerequisites:** jr st or cons instr.**Course Rules:** Counts as repeat of CES 499 with same topic.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 515G Environmental Law for Natural Resource Managers**

3 cr. Undergraduate/Graduate.

Overview of United States environmental and natural resource law.

**Prerequisites:** jr st or cons instr.**Course Rules:** Counts as repeat of CES 499 with same topic.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 550 Introduction to Science Interpretation**

3 cr. Undergraduate/Graduate.

Concepts and practices of presenting science information for audience understanding of impact of science on daily life. Interpretation techniques for science content in nonformal settings.

**Prerequisites:** jr st; CES 210(P) or cons instr.**Last Taught:** UWinterIM 2017, UWinterIM 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 550G Introduction to Science Interpretation**

3 cr. Undergraduate/Graduate.

Concepts and practices of presenting science information for audience understanding of impact of science on daily life. Interpretation techniques for science content in nonformal settings.

**Prerequisites:** jr st; CES 210(P) or cons instr.**Last Taught:** UWinterIM 2017, UWinterIM 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 651 Principles of Stream Management and Restoration**

3 cr. Undergraduate/Graduate.

Stream management and restoration, open-channel hydraulics, stream geomorphology, stable channel design, sediment transport, and in-stream aquatic ecology and riparian corridor habitats.

**Prerequisites:** jr st; Bio Sci 310(P) or equiv; Math 211(P) or equiv; or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CES 651G Principles of Stream Management and Restoration**

3 cr. Undergraduate/Graduate.

Stream management and restoration, open-channel hydraulics, stream geomorphology, stable channel design, sediment transport, and in-stream aquatic ecology and riparian corridor habitats.

**Prerequisites:** jr st; Bio Sci 310(P) or equiv; Math 211(P) or equiv; or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CES 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of CES faculty or academic staff member.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 2022, Spring 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Counseling (COUNS)

**COUNS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** cons instr; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 403 Overview of Counseling Skills**

3 cr. Undergraduate.

An applied course which introduces students to the basic interpersonal skills required in the counseling process. Designed for students interested in counseling and related fields.

**Prerequisites:** jr st

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st, cons instr, acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st, cons instr, acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 579 Current Topics in Counseling:**

1-3 cr. Undergraduate/Graduate.

Specific topic and prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Fall 1996, Summer 1992.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 579G Current Topics in Counseling:**

1-3 cr. Undergraduate/Graduate.

Specific topic and prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Fall 1996, Summer 1992.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 600 Introduction to Clinical Mental Health Counseling**

3 cr. Undergraduate/Graduate.

Survey of history of counseling; systems of counseling; credentialing in community counseling, counseling techniques; behavior modification and behavioral counseling; group processes in counseling.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 600G Introduction to Clinical Mental Health Counseling**

3 cr. Undergraduate/Graduate.

Survey of history of counseling; systems of counseling; credentialing in community counseling, counseling techniques; behavior modification and behavioral counseling; group processes in counseling.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 602 Introduction to School Counseling**

3 cr. Undergraduate/Graduate.

Survey of history of school counseling, counseling techniques, systems of counseling, group counseling in schools.

**Prerequisites:** jr st

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 602G Introduction to School Counseling**

3 cr. Undergraduate/Graduate.

Survey of history of school counseling, counseling techniques, systems of counseling, group counseling in schools.

**Prerequisites:** jr st

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 701 Psychosocial Aspects of Disability in Rehabilitation Counseling**

3 cr. Graduate.

Psychological adjustment to disabling conditions by clients and families; case management practices with non-physical disabilities; substance abuse among persons with disabilities.

**Prerequisites:** grad st; Couns 601(C)

**Last Taught:** Spring 2008, Spring 2007, Spring 2006, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 702 Neuroscience and Medical Aspects of Counseling**

3 cr. Graduate.

Neuroscience and medical practices related to emotional and behavioral conditions with emphasis on appropriate intervention strategies.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 704 Multicultural Mental Health Guidelines and Ethics Overview**

3 cr. Graduate.

Basic concepts in multicultural psychology and how they interact to shape the individual.

**Prerequisites:** grad st**Last Taught:** Fall 2016, Fall 2015, Summer 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 705 Multicultural Practice: Awareness and Knowledge of Others**

3 cr. Graduate.

Understanding and knowledge related to mental health practices of individuals from diverse cultural groups.

**Prerequisites:** grad st; Couns 704**Last Taught:** Spring 2017, Spring 2015, Spring 2014, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 710 Counseling: Theory and Issues**

3 cr. Graduate.

Counseling theories and issues, associated research, and application of theory to counseling practice.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 711 Foundations in Career Development**

3 cr. Graduate.

Educational, psychological, and sociological bases for career development; evolution of career development research; consideration and application of educational-occupational-social information through individual and group counseling approaches.

**Prerequisites:** grad st.**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 714 Essentials of Counseling Practice**

3 cr. Graduate.

Experience and practice in basic counseling skills related to the helping process. Analysis of barriers and hazards in the counseling process.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 715 Multicultural Counseling**

3 cr. Graduate.

Understanding the impact of culture on behavior and how to use that knowledge to increase effectiveness in counseling individuals from other cultures.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 740 Multicultural Mental Health Guidelines for Working with Latinos**

3 cr. Graduate.

Information about the Hispanic/Latino population in the U.S. through concepts such as identity, acculturation, language, family values, religion, gender, and social class.

**Prerequisites:** grad st; Couns 704 & 705 (P)**Last Taught:** Spring 2017, Spring 2015, Spring 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 741 Multicultural Mental Health Guidelines for Working with LGBT Individuals**

3 cr. Graduate.

Essential multicultural mental health information as it pertains to the LGBT population in the U.S. Areas related to demographics, historical factors, sociopolitical issues and their influence on mental health.

**Prerequisites:** grad st; Couns 704 & 705 (P)**Last Taught:** Spring 2016, Fall 2014, Summer 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 742 Multicultural Health Guidelines for Working with Asian Americans**

3 cr. Graduate.

Understanding and knowledge related to mental health practices of individuals of Asian descent living in the U.S.; demographic, historical, and sociopolitical factors influencing mental health.

**Prerequisites:** grad st; Couns 704 & 705 (P)**Last Taught:** Fall 2015, Fall 2013, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 743 Multicultural Mental Health Guidelines for Working with African Americans**

3 cr. Graduate.

Multicultural mental health information as it pertains to African Americans in the U.S.; addresses demographics, historical factors, and sociopolitical issues and their impact on mental health.

**Prerequisites:** grad st; Couns 704 & 705 (P)**Last Taught:** Summer 2015, Spring 2014, Fall 2012, Summer 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 744 Multicultural Mental Health Guidelines, Working with First Nations Persons**

3 cr. Graduate.

Pan-cultural information about the mental health issues facing the First Nations populations in North America.

**Prerequisites:** grad st; Couns 704 & 705 (P)**Last Taught:** Spring 2015, Spring 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 745 Multicultural Mental Health Guidelines for Working with Men**

3 cr. Graduate.

Understanding how the traditionally socialized male gender role affects the lives of men and therapeutic techniques for working with men from a gender sensitive perspective.

**Prerequisites:** grad st; Couns 704 & 705 (P)**Last Taught:** Spring 2016, Spring 2014, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 751 Multicultural Considerations in Lifespan Psychopathology**

3 cr. Graduate.

Etiology and pathogenesis of mental disorders as they occur throughout the lifespan, with special attention paid to the multicultural influences.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Summer 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**COUNS 755 Counseling Pre-Practicum**

3 cr. Graduate.

Introductory experience for Master's level counseling students, and is designed to meet the Wisconsin licensing requirement of 100 hours of supervised experience.

**Prerequisites:** graduate standing; COUNS 600(P), COUNS 710(P), COUNS 714(P), and COUNS 715(P).

**Course Rules:** Counts as repeat of COUNS 779 with same topic.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 764 Supervised Practicum 1 in School Counseling**

3 cr. Graduate.

Practical, intensive and continuous experience in school settings that utilize counseling personnel.

**Prerequisites:** graduate standing; field placement; COUNS 602(P), COUNS 710(P), COUNS 714(P), and COUNS 715(P); consent of instructor; competency requirement.

**Course Rules:** Retakable to 9 cr max. Satisfactory/Unsatisfactory grade only.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 765 Supervised Practicum 1 in Clinical Mental Health Counseling**

3 cr. Graduate.

Practical, intensive, and continuous experience in community settings working with professional counseling personnel.

**Prerequisites:** graduate standing; field placement; COUNS 600(P), COUNS 710(P), COUNS 714(P), COUNS 715(P), and COUNS 755(P); consent of instructor; competency requirement.

**Course Rules:** Retakable to 9 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 774 Trauma Counseling I: Theory and Research**

3 cr. Graduate.

Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.

**Prerequisites:** grad st.

**Course Rules:** COUNS 774, NURS 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 775 Trauma Counseling II: Diagnosis and Treatment**

3 cr. Graduate.

Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.

**Prerequisites:** graduate standing, COUNS 744(P), NURS 775(P), OCCTHPY 774(P) or SOC WRK 774(P); or consent of instructor.

**Course Rules:** COUNS 775, NURS 775, OCCTHPY 775, and SOC WRK 775 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 776 Supervised Practicum 1 in Rehabilitation Counseling**

3 cr. Graduate.

Practical, intensive, and continuous experience in settings that utilize rehabilitation counseling personnel.

**Prerequisites:** grad st; field placement; COUNS 710(P) & 714(P); cons instr; competency requirement.

**Course Rules:** Retakable to 9 cr max. Sat/Unsat grade only.

**Last Taught:** Summer 2007, Spring 2007, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 779 Current Topics in Counseling:**

1-3 cr. Graduate.

Specific topic and prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** grad st.

**Course Rules:** Retakeable with change in topic to max of 9 cr.

**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 790 Research or Thesis**

1-3 cr. Graduate.

For graduate students needing to complete master's paper.

**Prerequisites:** grad st (master's level in COUNS/Rehab COUNS); cons instr.

**Last Taught:** Fall 2020, Spring 2018, Fall 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 799 Independent Reading**

1-3 cr. Graduate.

For the benefit of graduate students unable to secure needed content in regular courses.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Fall 2021, Summer 2020, Summer 2019, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 800 Group Counseling Theory**

3 cr. Graduate.

Theories of groups, group counseling strategies, group structure, latent structural analysis, and educational methodologies.

**Prerequisites:** graduate standing; COUNS 600(P) or COUNS 602(P); COUNS 710(P) and COUNS 714(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 803 Vocational Psychology**

3 cr. Graduate.

Vocational theories and research; understanding of individual in relation to world of work; understanding of role of assessment in vocational counseling; multicultural vocational research and counseling.

**Prerequisites:** grad st; Ed Psy 720; COUNS 711 or equiv; COUNS 714

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 805 Consultation Strategies for Counselors and School Psychologists**

3 cr. Graduate.

Analysis of consultation models; investigation of intervention strategies; and evaluation of the consultation process.

**Prerequisites:** 21 grad crs in Ed Psy &/or COUNS.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 807 Advanced Counseling Strategies:**

1-3 cr. Graduate.

Variable content lecture-laboratory class. This course provides an in-depth view of counseling strategies based on the precepts of a particular theoretical model. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st; COUNS 714**Last Taught:** Spring 2019, Spring 2017, Spring 2015, Spring 2001.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 810 Counseling in the Schools**

3 cr. Graduate.

Exploration of counseling functions in schools. The rationale, scope and nature of school counseling. Theories, techniques and principles of counseling process are emphasized.

**Prerequisites:** graduate standing, COUNS 710(P) and COUNS 714(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 812 Clinical Studies in Counseling**

3 cr. Graduate.

Problem behaviors that clients bring to the counseling situation; atypical behaviors; techniques by which counselors deal with those behaviors. Emphasis on case material.

**Prerequisites:** graduate standing, COUNS 710(P) and COUNS 714(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 814 Professional, Ethical and Legal Issues in Counseling Psychology**

3 cr. Graduate.

Examination of professional, legal and ethical issues affecting the practice of counseling psychology. Introduction to the scientist-practitioner model and the profession of counseling psychology.

**Prerequisites:** grad st; 21 crs in COUNS or equiv.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 815 Advanced Multicultural Counseling**

3 cr. Graduate.

Multicultural counseling models and related strategies for professionals working in multicultural educational and community settings.

**Prerequisites:** grad st; COUNS 714; COUNS 715; COUNS 774**Last Taught:** Spring 2023, Spring 2021, Fall 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 816 Counseling Children and Adolescents**

3 cr. Graduate.

This course will describe various counseling issues and strategies applicable to working with children and adolescents in both school and community settings.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 819 Group Assessment for Adults**

3 cr. Graduate.

This course is designed to prepare students in adult group assessment. Students will become familiar with instruments used in personality, vocational, and interest assessment.

**Prerequisites:** grad st; Ed Psy 624; Ed Psy 720**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 820 Counseling Appraisal and Clinical Decision-Making**

3 cr. Graduate.

Course will integrate science of psychology with counseling practice in order to promote development of advanced interviewing skills and intake reporting.

**Prerequisites:** graduate standing; COUNS 600(P), COUNS 710(P), COUNS 714(P), and COUNS 751(P).**Last Taught:** Summer 2023, Summer 2022, Spring 2022, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 830 Proseminar 1: Introduction to Counseling Psychology; Multiculturalism**

3 cr. Graduate.

Introduction to the profession; multicultural counseling and APA's code of ethics covered in depth.

**Prerequisites:** grad st, cons instr**Last Taught:** Fall 2011, Fall 2010, Fall 2009, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 831 Proseminar 2: Psychotherapy Interventions**

3 cr. Graduate.

Psychotherapy models and associated techniques.

**Prerequisites:** grad st; cons instr**Last Taught:** Spring 2012, Spring 2010, Spring 2009, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 840 Psychological Assessment**

3 cr. Graduate.

Use of psychological assessment in counseling psychology practice.

**Prerequisites:** grad st; cons instr**Last Taught:** Spring 2023, Spring 2021, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 841 Proseminar 4: Vocational Psychology; Social Justice**

3 cr. Graduate.

Advanced vocational psychology including career theory, career counseling, and social justice.

**Prerequisites:** grad st; cons instr**Last Taught:** Spring 2011, Spring 2010, Spring 2009, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 850 Proseminar 5: Supervision and Consultation**

3 cr. Graduate.

Provides an introduction to and practice in supervision in counseling psychology.

**Prerequisites:** grad st; cons instr**Last Taught:** Fall 2012, Fall 2011, Fall 2010, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 860 Capstone-Research in Counseling Psychology**

3 cr. Graduate.

Analysis of research trends; examination of critical issues; reports of student research projects.

**Prerequisites:** grad st; cons instr**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**COUNS 873 Fieldwork in Student Personnel Services**

3-6 cr. Graduate.

**Prerequisites:** grad st; major in area & cons instr**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 904 Family Systems Theory, Research, and Practice**

3 cr. Graduate.

Introduction to systems theory, major approaches to family therapy, and the research on family systems concepts, in-session processes, and therapy outcomes.

**Prerequisites:** grad st; Couns 710(P).

**Last Taught:** Summer 2023, Summer 2022, Spring 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 917 Supervision of Counseling**

3 cr. Graduate.

An examination of research and strategies for the supervision of counseling; experience in the actual process of supervision.

**Prerequisites:** grad st; Couns 970

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 968 Supervised Practicum 2 in School Counseling**

3 cr. Graduate.

Supervised practice in cooperating K-12 school settings.

**Prerequisites:** graduate standing; field placement; COUNS 764(P); consent of instructor; competency required.

**Course Rules:** Retakable to 9 credits max. Satisfactory/unsatisfactory grade only.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 970 Supervised Practicum 2 in Clinical Mental Health Counseling**

3 cr. Graduate.

Practice in cooperating colleges, agencies, and other community settings.

**Prerequisites:** graduate standing; field placement; COUNS 765(P); consent of instructor; competency required.

**Course Rules:** Retakable to 9 credits max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 971 Supervised Practicum in Group Counseling**

3-9 cr. Graduate.

Controlled practicum in group counseling with cooperating schools, colleges and agencies.

**Prerequisites:** master's degree in Ed Psy; acceptance by Couns area; letter of recomm from agency or school

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 972 Internship in Counseling I**

6 cr. Graduate.

Practical experience in a cooperating school involving counseling procedures. Supervised by qualified staff at the employing unit and by counselor education faculty. Seminar participation required.

**Prerequisites:** master's degree in Ed Psy with specialization in Couns & writ cons instr.

**Last Taught:** Fall 2003, Fall 2002, Fall 2001, Fall 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 974 Internship in Rehabilitation Counseling**

3-6 cr. Graduate.

Supervised experience in a public or private rehabilitation agency. Stress on case management and counseling procedures with a variety of clients.

**Prerequisites:** admis to rehab couns concentration; writ cons instr & agency.

**Last Taught:** Fall 2007, Summer 2007, Spring 2007, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 975 Doctoral Practicum in Counseling 3**

3 cr. Graduate.

A supervised counseling experience with emphasis on the process and techniques of assessment, individual, and group counseling. Opportunity for consultation and feedback on counseling issues.

**Prerequisites:** graduate standing; field placement; admitted to the PhD program in Counseling Psychology; consent of instructor.

**Course Rules:** Sat/Unsat grade only. Retakable to 12 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 976 Doctoral Practicum in Counseling 4**

3 cr. Graduate.

A supervised counseling experience with a broad range of clients within a clinical setting. Opportunity for consultation and feedback on counseling issues, and experience at providing supervision of masters' level students.

**Prerequisites:** graduate standing; field placement; admitted to the PhD program in Counseling Psychology; COUNS 975(P); consent of instructor.

**Course Rules:** Retakable to 12 cr max. Sat/Unsat grade only.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 977 Advanced Doctoral Practicum in Counseling 5**

3 cr. Graduate.

Advanced supervised training in specialized areas of counseling psychology: psychological assessment; individual, family, or group therapy; and consultation in outpatient, inpatient, or community mental health settings.

**Prerequisites:** graduate standing; field placement; admitted to the PhD program in Counseling Psychology; COUNS 976(P); consent of instructor.

**Course Rules:** Retakable to 12 cr max. Sat/Unsat grade only.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 990 Research or Thesis**

1-3 cr. Graduate.

**Prerequisites:** grad st; cons major professor.

**Course Rules:** Considered full time for FA purposes.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**COUNS 999 Independent Reading**

1-3 cr. Graduate.

For benefit of doctoral students unable to secure needed content in regular courses.

**Prerequisites:** doctoral st & cons instr.**Last Taught:** Fall 2020, Summer 2018, Summer 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Criminal Justice & Criminology (CRM JST)

**CRM JST 105 Orientation for Social Welfare Students**

1 cr. Undergraduate.

Prepares students to participate in UWM's educational process and to explore career choices in social welfare.

**Prerequisites:** fr st only.**Course Rules:** Counts as repeat of Crm Jst 88. Jointly offered with & counts as repeat of Soc Wrk 105.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 110 Introduction to Criminal Justice**

3 cr. Undergraduate.

Survey of the present structure, philosophy, procedures, future prospects of police, courts, corrections, and of the penal system in American society.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 271 Introduction to Policing**

3 cr. Undergraduate.

An interdisciplinary analysis of the role of police in a democratic society; emphasis on historical development of police institution, cultural attributes, accountability, occupational socialization, police-behavior, and selected current issues.

**Prerequisites:** CRM JST 110(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 273 Introduction to Corrections**

3 cr. Undergraduate.

Analysis of role of corrections in American criminal justice. Emphasis on describing and assessing the effectiveness of correctional models in prisons, jails, probation, and parole.

**Prerequisites:** CRM JST 110(P).**Last Taught:** UWinteriM 2024, Fall 2023, Spring 2023, UWinteriM 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 275 Introduction to Criminal Courts**

3 cr. Undergraduate.

Examination of criminal judicial process from setting bail through sentencing, role of courts within criminal justice. Analysis of structure, professional roles, and procedural law governing processing.

**Prerequisites:** CRM JST 110(P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 281 Dead Men Do Tell Tales: An Introduction to Forensic Science**

3 cr. Undergraduate.

A multidisciplinary view of how forensic scientists contribute to the many ways that physical evidence is collected, analyzed, and evaluated.

**Prerequisites:** none.**Course Rules:** ANTHRO 281, BMS 281, CHEM 281, and CRM JST 281 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 285 Medicolegal Death Investigation**

3 cr. Undergraduate.

Lectures on the fundamentals of death investigation as outlined by national guidelines for death investigators.

**Prerequisites:** none.**Course Rules:** Jointly offered with & counts as repeat of Anthro 285, Chem 285, & BMS(C L Sci) 285.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 291 Current Issues in Criminal Justice:**

1-3 cr. Undergraduate.

Selected current issues in criminal justice.

**Prerequisites:** none.**Course Rules:** May be retaken with change in topic to max of 6 cr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken with change in topic.**Last Taught:** UWinteriM 2024, Spring 2022, UWinteriM 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 300 Criminal Process**

3 cr. Undergraduate.

Analysis of the problems of the criminal justice system in separating the guilty and the innocent. Discussion of constitutional issues and technical procedural problems involved.

**Prerequisites:** jr st; Crm Jst 110(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 301 Criminal Law**

3 cr. Undergraduate.

Principles, theories and doctrines of the law of crimes with a unified study of legal defense.

**Prerequisites:** jr st; Crm Jst 110(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 304 Gangs and Organized Crime**

3 cr. Undergraduate.

Provides an overview of domestic and international gangs and organized crime networks. The challenges these organizations bring to the criminal justice system are also discussed.

**Prerequisites:** none

**Course Rules:** Counts as repeat of Crm Jst 291 with same topic.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 305 Criminological Theory and Policy**

3 cr. Undergraduate.

Examination of criminal justice policy through analysis of relevant theory, research findings, and implications.

**Prerequisites:** CRM JST 110(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 310 Race, Crime, and Criminal Justice**

3 cr. Undergraduate.

Issues of race and ethnicity in the criminal justice system. Emphasis on research examining social construction of race and ethnicity.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of CRM JST 291 with same topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 311 Field Experience Practicum**

3-6 cr. Undergraduate.

Placement in a faculty unit or project in a criminal justice setting, either public or private. Minimum 120 hours per semester under supervision.

**Prerequisites:** jr st; Crm Jst 110(P); writ cons instr. Regis priority for students admitted to Crm Jst major.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 340 Policing the Streets**

3 cr. Undergraduate.

Analysis of policing from the perspective of the front line police officer, including societal expectations, legality, use of force, discretion, and psychological aspects.

**Prerequisites:** none

**Course Rules:** Counts as repeat of Crm Jst 291 w/same topic.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 350 White Collar Crime**

3 cr. Undergraduate.

The nature and extent of white collar crime in the United States, especially the harmful and criminal acts of the rich and powerful

**Prerequisites:** none.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 370 Criminal Justice Administration**

3 cr. Undergraduate.

Analysis of operational and administrative issues in criminal justice drawn from organizational theory, management theory; discussion of organizational technology, structure, environment; and organizational assessment.

**Prerequisites:** jr st; Crm Jst 110(P).

**Last Taught:** Fall 2014, Fall 2013, Spring 2008, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 380 Victimology**

3 cr. Undergraduate.

An overview of conceptual and substantive issues in victim centered theory and research, including past, present and future models of victim participation in criminal justice.

**Prerequisites:** jr st; Crm Jst 110(P).

**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 385 Women and Criminal Justice**

3 cr. Undergraduate.

A study of female crime and delinquency, and how the criminal justice system responds to female crime.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 386 Criminal Intelligence**

3 cr. Undergraduate.

Contemporary responses to police problems, the tenets of various police styles and tactical crime analysis.

**Prerequisites:** Crm Jst 110(P).

**Course Rules:** Counts as repeat of Crm Jst 592 with same subtitle.

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 410 Comparative Criminal Justice**

3 cr. Undergraduate.

Comparative study of criminal justice components of selected countries. Emphasis will be on cultural influences on the principles and operation of criminal justice systems.

**Prerequisites:** jr st or cons instr.

**General Education Requirements:** SS

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 416 Intimate Partner Violence**

3 cr. Undergraduate.

An examination of the criminal justice response to intimate partner violence. Theoretical and practical issues are explored in the context of physical child abuse, intimate partner violence, teen dating violence, and elder abuse.

**Prerequisites:** none.

**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 420 Violence and the Criminal Justice System**

3 cr. Undergraduate.

Historical and contemporary study of violent crime and its relationship to the criminal justice system.

**Prerequisites:** jr st; Crm Jst 110(P) & 150(P).

**General Education Requirements:** SS

**Last Taught:** Spring 2022, Fall 2019, Fall 2018, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 421 Cybercrime**

3 cr. Undergraduate/Graduate.

Legal issues associated with cybercrimes, including response, investigation and prosecution.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Crm Jst 592/970 with same topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 421G Cybercrime**

3 cr. Undergraduate/Graduate.

Legal issues associated with cybercrimes, including response, investigation and prosecution.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Crm Jst 592/970 with same topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 422 Cyber Crime, Law & Public Policy**

3 cr. Undergraduate/Graduate.

Overview of the current legal challenges related to cyber crime and public policy responses. Relevant court cases and public policy initiatives will be discussed.

**Prerequisites:** junior standing or graduate standing.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 422G Cyber Crime, Law & Public Policy**

3 cr. Undergraduate/Graduate.

Overview of the current legal challenges related to cyber crime and public policy responses. Relevant court cases and public policy initiatives will be discussed.

**Prerequisites:** junior standing or graduate standing.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 423 Investigating the Dark Web**

3 cr. Undergraduate/Graduate.

Survey of criminal activity and investigative methods towards dark web related cyber crime offenses.

**Prerequisites:** junior standing or graduate standing.

**Course Rules:** Counts as a repeat of CRM JST 291 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 423G Investigating the Dark Web**

3 cr. Undergraduate/Graduate.

Survey of criminal activity and investigative methods towards dark web related cyber crime offenses.

**Prerequisites:** junior standing or graduate standing.

**Course Rules:** Counts as a repeat of CRM JST 291 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 424 Sex Crimes, Human Trafficking, and the Internet**

3 cr. Undergraduate/Graduate.

Survey of criminal activity and investigative methods towards cyber crime focused on human trafficking and other sex crimes.

**Prerequisites:** junior standing or graduate standing.

**Course Rules:** Counts as a repeat of CRM JST 291 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 424G Sex Crimes, Human Trafficking, and the Internet**

3 cr. Undergraduate/Graduate.

Survey of criminal activity and investigative methods towards cyber crime focused on human trafficking and other sex crimes.

**Prerequisites:** junior standing or graduate standing.

**Course Rules:** Counts as a repeat of CRM JST 291 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 430 Punishment**

3 cr. Undergraduate.

Critical examination of theoretical justifications of punishment, corresponding sentencing structures, and recent empirical evidence addressing the utilitarian aims of punishment. Seminar.

**Prerequisites:** jr st or cons instr.

**General Education Requirements:** SS

**Last Taught:** Fall 2016, Spring 2014, Fall 2003, Fall 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 460 The Federal System: Law Enforcement, Courts, and Corrections**

3 cr. Undergraduate.

Aspects of the federal criminal justice system; how law enforcement, courts, and corrections at the federal level are organized as well as special topics within these areas.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 480 Criminal Evidence and Investigation**

3 cr. Undergraduate/Graduate.

Examination of the criminal investigation process with emphasis on theory of investigation, role of criminal evidence, and effectiveness of the process.

**Prerequisites:** junior standing and CRM JST 110(P) or graduate standing.

**Course Rules:** Counts as repeat of CRM JST 970 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 480G Criminal Evidence and Investigation**

3 cr. Undergraduate/Graduate.

Examination of the criminal investigation process with emphasis on theory of investigation, role of criminal evidence, and effectiveness of the process.

**Prerequisites:** junior standing and CRM JST 110(P) or graduate standing.

**Course Rules:** Counts as repeat of CRM JST 970 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 481 Criminalistics**

3 cr. Undergraduate.

Instruction on collection, preservation, and analysis of physical evidence from crime scenes. Instruction on the rules of evidence and expert testimony.

**Prerequisites:** jr st; admis to Forensic Sci cert program; Crm Jst/Anthro/Chem/BMS(C L Sci) 281(P); Crm Jst 480(P).

**Course Rules:** Anthro 481, Chem 481, BMS(C L Sci) 481, and Crm Jst 481 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 490 Drugs, Crime and Criminal Justice**

3 cr. Undergraduate/Graduate.

Overviews illicit drug use, the relationship between drugs and crime, and responses of criminal justice agencies to illegal drug use.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Crm Jst 592/970 w/same topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 490G Drugs, Crime and Criminal Justice**

3 cr. Undergraduate/Graduate.

Overviews illicit drug use, the relationship between drugs and crime, and responses of criminal justice agencies to illegal drug use.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Crm Jst 592/970 w/same topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 497 Study Abroad:**

1-6 cr. Undergraduate/Graduate.

Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** UWinteriM 2024, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 497G Study Abroad:**

1-6 cr. Undergraduate/Graduate.

Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** UWinteriM 2024, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 510 Introduction to Crime Analysis**

3 cr. Undergraduate.

Introduction to crime analysis and crime mapping. Examines techniques, theory, data collection methods, statistics used, history of and career opportunities in crime analysis.

**Prerequisites:** Crm Jst 110(P).

**Course Rules:** Counts as repeat of Crm Jst 592 w/same topic.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 520 Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS**

3 cr. Undergraduate/Graduate.

Examines theories and applications to analyze data. Approaches include crime mapping and spatial analysis; strategic, administrative, and tactical crime analysis. Other methods are also covered.

**Prerequisites:** jr st; Crm Jst 110(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 520G Analysis Oriented Technology: Spatial Data Analysis; Crime Mapping; ArcGIS**

3 cr. Undergraduate/Graduate.

Examines theories and applications to analyze data. Approaches include crime mapping and spatial analysis; strategic, administrative, and tactical crime analysis. Other methods are also covered.

**Prerequisites:** jr st; Crm Jst 110(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 530 Data Driven Policing Strategies and Police Intelligence**

3 cr. Undergraduate.

Examines data driven policing strategies and police intelligence. Approaches covered include: Problem-oriented Policing (POP), Smart Policing, Intelligence-led Policing, and Place-based Policing.

**Prerequisites:** Crm Jst 110(P).

**Last Taught:** Fall 2023, Fall 2021, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 585 Internship in Forensic Toxicology**

1-3 cr. Undergraduate.

Practical experience in a forensic toxicology laboratory under the supervision of a toxicologist.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P) & 285(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.

**Course Rules:** Anthro 585, Chem 585, BMS(C L Sci) 585, & Crm Jst 585 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 589 Internship in Death Investigation**

1-3 cr. Undergraduate.

Practical experience in death investigation under the supervision of a death investigator and forensic pathologist.

**Prerequisites:** jr st; admis to Forensic Sci certif prog; Crm Jst/Anthro/Chem/BMS(C L Sci) 281(P); Crm Jst 480(P); BMS(C L Sci) 620(R); Hepatitis B vaccine series or waiver.

**Course Rules:** Anthro 589, Chem 589, BMS(C L Sci) 589 & Crm Jst 589 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 591 Senior Thesis**

1-3 cr. Undergraduate.

Thesis written under supervision

**Prerequisites:** sr st, 2.5 GPA; writ cons instr & dept.

**Last Taught:** Summer 1991.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CRM JST 592 Critical Issues in Criminal Justice:**

1-3 cr. Undergraduate.

Explores interests of special concern in criminal justice. Specific credits announced in Schedule of Classes whenever course is offered.

**Prerequisites:** jr st.**Course Rules:** May be retaken to max of 6 cr with change of topic.**Last Taught:** UWinteriM 2023, Fall 2022, UWinteriM 2022, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 594 Internship in Forensic Science**

1-3 cr. Undergraduate.

On-site shadowing of evidence analyst at State Crime Laboratory.

**Prerequisites:** jr st; admis to Forensic Sci cert prog; Anthro/Chem/BMS(C L Sci)/Crm Jst 281(P); Chem 221(P) or 223(P); Crm Jst 480(P); Hepatitis B vaccine series or waiver.**Course Rules:** Anthro 594, Chem 594, BMS(C L Sci) 594, & Crm Jst 594 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 599 Independent Reading**

1-3 cr. Undergraduate.

Reading may be in any field for which the student has an adequate background.

**Prerequisites:** sr st; writ cons instr & coord; gpa 2.5 or above.**Course Rules:** May be retaken to max of 6 cr.**Last Taught:** Spring 2022, Summer 2021, Summer 2018, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 662 Methods of Social Welfare Research**

3 cr. Undergraduate.

Analysis of methods used in social welfare research and problems in project design and programming. Distinctive characteristics of investigations directed to planning, administrative, and scientific objectives.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 663 Criminal Justice Capstone Seminar**

3 cr. Undergraduate.

Synthesis of criminal justice theories, empirical research and program creation and implementation.

**Prerequisites:** jr st.; completion of OWC-A GER.**General Education Requirements:** OWCB**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 671 Juvenile Justice**

3 cr. Undergraduate/Graduate.

Structure of juvenile justice system – police, courts, and corrections; analysis of structure of subsystems of the juvenile justice process; introduction to literature and research.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 671G Juvenile Justice**

3 cr. Undergraduate/Graduate.

Structure of juvenile justice system – police, courts, and corrections; analysis of structure of subsystems of the juvenile justice process; introduction to literature and research.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 680 Jails**

3 cr. Undergraduate/Graduate.

The primary purpose is to develop a comprehensive understanding of the role of the jail in contemporary society.

**Prerequisites:** jr st; Crm Jst 110 (P).**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 680G Jails**

3 cr. Undergraduate/Graduate.

The primary purpose is to develop a comprehensive understanding of the role of the jail in contemporary society.

**Prerequisites:** jr st; Crm Jst 110 (P).**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 713 Measuring Crime & Analyzing Crime Data**

3 cr. Graduate.

This course discusses various measures of crime, how different measures affect outcomes, and strategies to analyze and visualize crime data.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 716 Advanced Analytic Techniques for Crime Analysts**

3 cr. Graduate.

Current methods and analyses commonly used by crime analysts, including the identification of crime patters, risk factors, and intelligence gathering strategies.

**Prerequisites:** Grad st; Crm Jst 520(P), Crm Jst 713(P), Crm Jst 716(P)**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 743 Proseminar: Administration of Criminal Justice Systems**

3 cr. Graduate.

An examination of criminal justice organizations from a public administration focus, integrating organizational theory and political theory for the analysis of criminal justice administration.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 756 Proseminar: Analysis of Criminal Justice Research**

3 cr. Graduate.

A study of the application of social science research methods to criminal justice issues.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CRM JST 773 Criminological Perspectives**

3 cr. Graduate.

An in-depth analysis of the etiology of criminal behavior; processes of becoming a criminal; patterns of criminal behavior; and policy and individual consequences of decriminalization.

**Prerequisites:** grad st.**Course Rules:** Jointly offered; CRM JST 773 and SOC WRK 773 count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 775 Race, Crime and Criminal Justice**

3 cr. Graduate.

A study of crime and criminal justice issues as they impact major racial groups such as Blacks, American Indians, and Hispanics

**Prerequisites:** grad st.**Last Taught:** Spring 2013, Spring 2011, Fall 2008, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 783 Data Mining and Predictive Modeling for Crime Analytics**

3 cr. Graduate.

Explores data mining and predictive analytics for crime analysts. Theoretical and practical applications of these techniques are explained.

**Prerequisites:** grad st.**Last Taught:** Spring 2020, Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 795 Issues in Law Enforcement Practice and Policy**

3 cr. Graduate.

An examination of police practice in a democratic society from an operational, legal, and sociological perspective

**Last Taught:** Fall 2023, Spring 2022, Fall 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 810 Police Administration**

3 cr. Graduate.

An application of management principles to the police organization.

**Prerequisites:** grad st.**Last Taught:** Spring 2014, Fall 2012, Spring 2011, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 820 Police and the Multicultural Community**

3 cr. Graduate.

A study of the critical issues facing police officers and administrators in relation to policing a diverse society, with particular emphasis on training leadership, minorities and women police officers, and police - community relations.

**Prerequisites:** grad st.**Last Taught:** Fall 2018, Fall 2016, Spring 2012, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 830 Intervention Strategies for Correctional Clients**

3 cr. Graduate.

A review and analysis of intervention approaches and programs used with correctional clients, both juvenile and adult, with emphasis on diversion, prevention, and rehabilitation strategies.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 840 Philosophical Foundations of Policing**

3 cr. Graduate.

An in-depth analysis of the social theory of policing. The most significant theoretical and empirical works on policing are examined.

**Prerequisites:** grad st**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 850 Issues in Correctional Practice and Policy**

3 cr. Graduate.

Overview of significant issues facing corrections, including sentencing, life imprisonment, violence and victimization in prison, supermax, evidence-based practices, and parole revocation.

**Prerequisites:** grad st**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 910 Methods and Practice Capstone for Crime Analysts**

3 cr. Graduate.

Seminar in use of crime analysis techniques and synthesis of prior empirical research using crime analysis techniques.

**Prerequisites:** grad st**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 920 Criminal Justice Masters Capstone Seminar**

3 cr. Graduate.

Seminar involving synthesis and integration of degree coursework on criminal justice theories, empirical research and program creation and implementation.

**Prerequisites:** grad st**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 970 Readings in Criminal Justice Research:**

3 cr. Graduate.

Variable content research oriented course involving systematic analysis and investigation of criminal justice topics.

**Prerequisites:** grad st; cons instr.**Course Rules:** May be retaken to max of 9 cr.**Last Taught:** UWinterIM 2024, Summer 2023, Spring 2023, UWinterIM 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 990 Thesis or Research Project**

1-3 cr. Graduate.

**Prerequisites:** grad st; writ cons instr & coord grad prog.**Course Rules:** May be repeated once for cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CRM JST 999 Independent Reading in Criminal Justice**

1-3 cr. Graduate.

Work suited to individual graduate students arranged.

**Prerequisites:** grad st; cons instr & coord Grad Prog.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Curriculum and Instruction (CURRINS)

### **CURRINS 110 Reading Proficiency for College Students I**

1 cr. Undergraduate.

Presentation of techniques for the acquisition of basic reading skills. Emphasis on vocabulary building, text organizational structures, and comprehension.

**Prerequisites:** completion of Nelson-Denny reading test.

**Last Taught:** Fall 2014, Spring 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 111 College Research Literacy and Strategies**

2 cr. Undergraduate.

Understanding and application of college level research and strategies.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of CURRINS 279 with same topic. May be retaken to a max of 6 credits.

**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 112 Chemistry Reading Group**

1 cr. Undergraduate.

Prepares students to work with chemistry-specific texts and research.

**Prerequisites:** none.

**Course Rules:** May be retaken to max of 3 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 140 Field Experience with Families & Communities**

1 cr. Undergraduate.

Field experience in local agencies providing services to families.

**Prerequisites:** CURRINS 312(C) or consent of instructor.

**Course Rules:** Counts as repeat of TCH LRN 109.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 233 Introduction to Children's and Young Adult Literature**

3 cr. Undergraduate.

Introductory survey will focus on the literary merit and cultural contexts of works written for children and young adults.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 234 Teachers as Writers**

3 cr. Undergraduate.

Focus on various rhetorical modes of writing, stylistic strategies, and grammatical constructions from a teaching perspective.

**Prerequisites:** OWC Part A.

**General Education Requirements:** HU, OWCB

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 240 Field Experience with Dual Language Learners**

2 cr. Undergraduate.

Field experience with dual language learners in various settings.

**Prerequisites:** CURRINS 140(P) and CURRINS 501(C); or consent of instructor.

**Course Rules:** Counts as a repeat of TCH LRN 209.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 250 1st-Year Student Seminar: Early Childhood Education**

1 cr. Undergraduate.

Introductory seminar for first-year and transfer Early Childhood Education intended students.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of CurrIns 279 with same topic.

**Last Taught:** Spring 2013, Fall 2012, Spring 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 279 Current Topics in Curriculum and Instruction:**

1-3 cr. Undergraduate.

Special topics for undergraduates will be offered from time to time. See Schedule of Classes.

**Prerequisites:** none.

**Last Taught:** Spring 2019, Spring 2013, Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** cons instr; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2022, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 300 Introduction to Teaching: Colloquium and Fieldwork**

3 cr. Undergraduate.

Introduction to the teaching profession and teaching in urban schools.

Provides an overview of educational, multicultural, social, economic, and political issues that influence urban schools.

**Prerequisites:** sophomore standing.

**Course Rules:** Counts as repeat of CURRINS 100.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **CURRINS 301 Infants and Toddlers: Curriculum and Teaching**

3 cr. Undergraduate.

Approaches to infant/toddler care and education; instructional material and techniques to foster infant/toddler development; strategies for administering and managing learning environments.

**Prerequisites:** sophomore standing and admission to the School of Education; or consent of instructor.

**Course Rules:** Counts as a repeat of TCH LRN 568 or EXCEDUC 568.

**Last Taught:** Fall 2022, Summer 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 302 Curriculum Design in Early Childhood**

3 cr. Undergraduate.

Curriculum design and unit development in pre-primary and early primary classrooms.

**Prerequisites:** junior standing and admission to the School of Education; or consent of instructor.

**Course Rules:** Count as a repeat of TCH LRN 302.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 306 Initial Clinical Experience in Elementary and Middle Education**

1-2 cr. Undergraduate.

Clinical experience focusing on individual and small group instruction.

**Prerequisites:** junior standing, admis to SOE, CURRINS 536(C) and CURRINS 556(C); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 307 Clinical Experience in Elementary and Middle Education**

3 cr. Undergraduate.

Clinical experience focusing on instructional practices in elementary and middle education.

**Prerequisites:** junior standing, admis to SOE, CURRINS 306(P) and CURRINS 557(C); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 310 Curriculum for the Pre and Early Adolescent**

1-4 cr. Undergraduate.

The determination of curriculum and instructional approaches appropriate for the pre and early adolescent age group.

**Prerequisites:** admis to School of Educ.

**Last Taught:** Spring 2013, Spring 2012, Spring 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 312 Models and Issues for Early Childhood Education**

3 cr. Undergraduate.

Overview of content, methods, and issues pertaining to the organization of early childhood programs for developmentally-diverse, monolingual and bilingual learners.

**Prerequisites:** CURRINS 140(C).

**Course Rules:** Counts as a repeat of TCH LRN 312.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 313 Teaching Economics in the Social Studies Curriculum**

2 cr. Undergraduate.

Approaches to teaching economics in the social studies curriculum.

Latest research and teaching practices. A study of cooperative enterprises to meet Wisconsin's statutory requirement.

**Prerequisites:** ECON 103(P) or ECON 104(P).

**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 314 Field Work I in Early Childhood Education - PreK/K**

1 cr. Undergraduate.

Field experience with children in prekindergarten or kindergarten.

Planning and implementation of learning opportunities in the classroom.

**Prerequisites:** jr st, CURRINS 302(C)

**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 316 Field Work in Secondary Reading in Content Areas, Grade 6-12:**

3 cr. Undergraduate.

Field-based application of subject matter methods and instructional strategies in vocabulary development and comprehension, and assessment of student understanding of subject matter texts.

**Prerequisites:** jr st; admis to School of Educ; CURRINS 545 or equiv; & conc reg in subject matter methods course.

**Course Rules:** Cr/no cr only.

**Last Taught:** Fall 2013, Fall 2012, Fall 2011, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 320 Introduction to Critical Media Literacy**

1 cr. Undergraduate.

Introduction to media literacy and applications of instructional technology to support student learning.

**Prerequisites:** admis to SOE or cons instr.

**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 321 Introduction to the Teaching of Social Studies**

1-2 cr. Undergraduate.

Methods and content introducing the teaching of social studies.

**Prerequisites:** junior standing and admis to the School of Education.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 323 Teaching of Social Studies:**

1-4 cr. Undergraduate.

An examination of the purposes of social studies education in the schools with work in content selection, educational process and the nature of inquiry.

**Prerequisites:** junior standing and admission to the School of Education.

**Course Rules:** Counts as a repeat of TCH LRN 323.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 325 Instructional Strategies for Using Technology**

1 cr. Undergraduate.

Examination of the instructional uses of technology.

**Prerequisites:** junior standing and admis to the School of Education.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 326 Environmental Education for Teachers**

1 cr. Undergraduate.

Study of environmental issues and problems affecting local, state, and national resources. Fulfills WI DPI certification required for teachers.

**Prerequisites:** jr st, admis to School of Educ.

**Last Taught:** Spring 2013, Fall 2012, Summer 2012, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 327 Teaching of Science in the Elementary School**

1-4 cr. Undergraduate.

The objectives, materials, and techniques of teaching elementary science.

**Prerequisites:** jr st; admis to School of Educ; CURRINS 306(P).

**Course Rules:** May not be retaken for degree cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 328 Introduction to Teaching Science and Mathematics in Middle and High School**

3 cr.

Exploration of science and mathematics teaching through developing some foundational teaching strategies and working with students in middle and high schools.

**Prerequisites:** none.**Course Rules:** CURRINS 328 and CGS EDU 328 are jointly offered, and count as repeats of one another.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 330 Teaching of Mathematics 1**

3 cr. Undergraduate.

Methods and curriculum for facilitating the learning of mathematics with children ages 3-8. Emphasis on number concepts, problem solving, and intuitive geometry.

**Prerequisites:** junior standing, admission to the School of Education, and a grade of C or better in MATH 176(P); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 331 Teaching of Mathematics 2**

3 cr. Undergraduate.

Methods and curriculum for teaching mathematics. Emphasis on children's development of whole number reasoning, spatial reasoning, and geometry.

**Prerequisites:** junior standing, admis to the School of Education, and CURRINS 306(P); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 332 Teaching of Mathematics 3**

2-3 cr. Undergraduate.

Advanced methods and curriculum for the teaching of mathematics. Emphasis on children's development of rational numbers, algebra, statistics, and applications.

**Prerequisites:** junior standing, admis to the School of Education, and CURRINS 331(P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 333 Introduction to Teaching, Grades 1-8**

3 cr. Undergraduate.

Introduction to the teaching profession in grades 1-8 in urban setting. Overview of educational, multicultural, social and economic, and political issues that influence urban schools.

**Prerequisites:** ED PSY 330(C) or cons instr.**Last Taught:** Spring 2017, Spring 2016, Fall 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 334 Teaching of Modern Foreign Languages**

1-4 cr. Undergraduate.

The study of modern foreign language; application of teaching methods to the teaching of modern foreign languages.

**Prerequisites:** jr st; admis to School of Educ.**Last Taught:** Fall 2006, Fall 2005, Fall 2004, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 335 Instructional Computing I for Teachers**

1 cr. Undergraduate.

Introduction to instructional computing for teachers with emphasis on primary grades.

**Prerequisites:** admis to Collaborative Teacher Ed Prog for Urban Communities.**Last Taught:** Fall 2007, Spring 2007, Fall 2006, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 336 Instructional Computing II for Teachers**

1 cr. Undergraduate.

Instructional computing for teachers with emphasis on intermediate grades.

**Prerequisites:** admis to MCEA prog.**Last Taught:** Spring 2014, Fall 2013, Spring 2013, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 337 Instructional Computing III for Teachers**

1 cr. Undergraduate.

Instructional computing with emphasis on electronic portfolio development.

**Prerequisites:** admis to MCEA (Middle Childhood through Early Adolescence) program and CURRINS 336(P).**Last Taught:** Fall 2014, Spring 2014, Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 338 Teaching of Science in Early Childhood**

3 cr. Undergraduate.

Objectives, materials, and teaching methods for science in Early Childhood.

**Prerequisites:** junior standing, admission to the School of Education, CURRINS 540(C), and CURRINS 302(P); or consent of instructor.**Course Rules:** Counts as a repeat of TCH LRN 338.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 340 Field Experience in Preschool and Kindergarten Classrooms**

2 cr. Undergraduate.

Field experience with children in prekindergarten/kindergarten. Focus on early literacy lesson planning.

**Prerequisites:** CURRINS 240(P), CURRINS 502(C), and admission to the School of Education; or consent of instructor.**Course Rules:** Counts as a repeat of EXCEDUC 648 or TCH LRN 309.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 343 Teaching of Reading**

1-4 cr. Undergraduate.

An introductory course in the teaching of reading. Involves fieldwork. Designed for students without teaching experience.

**Prerequisites:** admis to School of Educ or cons instr.**Last Taught:** Fall 2012, Spring 2012, Fall 2011, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 350 Field Seminar in Language Education**

1 cr. Undergraduate.

Accompanies pre-student teaching in order to provide students a structured opportunity to share what is happening in the classroom, what's going well, and in what areas support is needed.

**Prerequisites:** junior standing, CURRINS 437(C) or CURRINS 443(C); or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 375 Using Technology for Teaching and Learning**

1 cr. Undergraduate.

Introduce students to various forms of technology used in the PK-12 classrooms.

**Prerequisites:** none.

**Course Rules:** Jointly offered with and counts as repeat of EXCEDUC 375.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 376 Understanding and Developing the edTPA**

1 cr. Undergraduate.

In-depth overview of all components of the edTPA; practice of skills including video recording, uploading and compressing video, writing summaries.

**Prerequisites:** none.

**Course Rules:** Jointly offered with and counts as repeat of EXCEDUC 376.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 377 Wisconsin Foundations of Reading**

1 cr. Undergraduate.

Foundational literacy assessment and instruction for diverse learners to prepare for the Wisconsin Foundations of Reading test. Focus on reading development grades PreK-8.

**Prerequisites:** none.

**Course Rules:** Jointly offered with and counts as repeat of EXCEDUC 377.

Credit/No Credit only.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 378 Implementing the edTPA in a Clinical Setting**

1-4 cr. Undergraduate.

In-depth overview of all components of the edTPA. Opportunities to engage in learning activities and assignments that will increase understandings of the edTPA requirements.

**Prerequisites:** none.

**Course Rules:** May be retaken for credit. Credit/no credit only.

**Last Taught:** Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 380 Teaching Music in Elementary Schools I, II**

2 cr. Undergraduate.

Methods, materials and observation of teaching vocal music in grades K-6. Includes junior participating experience.

**Prerequisites:** jr st & admis to school of educ or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 400 Field Work in Curriculum and Instruction:**

1-6 cr. Undergraduate.

Credit value determined by faculty advisor and student based on the nature of the project, amount of time student will spend with the project, and relevant evaluation criteria agreed upon in advance.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken for cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 401 Seminar for Student Teaching**

1 cr. Undergraduate.

Collaboration around solving problems encountered in urban teaching through a structured inquiry format with others involved in the student teaching experience.

**Prerequisites:** jr st; admis to School of Educ.

**Last Taught:** Spring 2014, Fall 2013, Spring 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 402 Student Teaching in Nursery and Kindergarten**

6 cr. Undergraduate.

**Prerequisites:** jr st; admis to School of Educ.

**Last Taught:** Spring 2014, Fall 2013, Spring 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 404 Student Teaching in Primary Grades**

6 cr. Undergraduate.

**Prerequisites:** jr st & admis to student teaching.

**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 406 Advanced Clinical Experience in Elementary and Middle Education**

3-4 cr. Undergraduate.

Advanced clinical experience focusing on instructional practices in elementary and middle education.

**Prerequisites:** junior standing, admis to the School of Education and CURRINS 558(C); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 407 Student Teaching in Elementary and Middle Education**

5-9 cr. Undergraduate.

Student teaching in grades K4-9.

**Prerequisites:** junior standing, admis to the School of Education, CURRINS 471(C) and CURRINS 406(P); or consent of instructor.

**Course Rules:** Repeatable to a max of 12 credits.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 415 Preliminary Student Teaching:**

1-6 cr. Undergraduate/Graduate.

Initial Student Teaching Experience for EAA Licensure Candidates.

**Prerequisites:** jr st; eligibility for student teaching & dept req.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 415G Preliminary Student Teaching:**

1-6 cr. Undergraduate/Graduate.

Initial Student Teaching Experience for EAA Licensure Candidates.

**Prerequisites:** jr st; eligibility for student teaching & dept req.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 423 Student Teaching in Social Studies**

10-12 cr. Undergraduate/Graduate.

Final Student Teaching Semester for EAA Social Studies Licensure Candidates.

**Prerequisites:** jr st; eligibility for student teaching & dept req.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 423G Student Teaching in Social Studies**

10-12 cr. Undergraduate/Graduate.

Final Student Teaching Semester for EAA Social Studies Licensure Candidates.

**Prerequisites:** jr st; eligibility for student teaching & dept req.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 427 Student Teaching in Science**

2-6 cr. Undergraduate.

**Prerequisites:** jr st; eligibility for student teaching & dept req.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 428 Student Teaching Science Seminar**

3 cr. Undergraduate/Graduate.

Seminar to support secondary science student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments.

**Prerequisites:** jr st; eligibility for student teaching.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 428G Student Teaching Science Seminar**

3 cr. Undergraduate/Graduate.

Seminar to support secondary science student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments.

**Prerequisites:** jr st; eligibility for student teaching.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 430 Student Teaching in Computer Science**

2-6 cr. Undergraduate.

**Prerequisites:** jr st; eligibility for student teaching & dept req.**Last Taught:** Fall 2013, Spring 2011, Fall 2009, Spring 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 431 Student Teaching in Mathematics**

2-6 cr. Undergraduate.

**Prerequisites:** jr st; eligibility for student teaching & dept req.**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 432 Student Teaching Mathematics Seminar**

3 cr. Undergraduate/Graduate.

Seminar to support secondary mathematics student teachers. Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments.

**Prerequisites:** jr st or grad st; eligibility for student teaching.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 432G Student Teaching Mathematics Seminar**

3 cr. Undergraduate/Graduate.

Seminar to support secondary mathematics student teachers.

Planning and debriefing lessons, analyzing pedagogy and student work, preparation for teaching licensure assessments.

**Prerequisites:** jr st or grad st; eligibility for student teaching.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 437 Pre-Student Teaching in World Language Education**

2-12 cr. Undergraduate.

Students pursuing World Language teacher certification.

**Prerequisites:** junior standing; eligibility for pre-student teaching; or consent of instructor.**Course Rules:** May be retaken to max of 12 cr.**Last Taught:** Fall 2023, Fall 2019, Spring 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 438 Student Teaching in World Language Education**

2-12 cr. Undergraduate.

Students pursuing World Language teacher certification.

**Prerequisites:** junior standing; eligibility for student teaching; or consent of instructor.**Course Rules:** May be retaken to max of 12 cr.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 440 Field Experience in the Primary Grades**

2 cr. Undergraduate.

Field experience with children in primary grades. Focus on literacy lesson planning.

**Prerequisites:** junior standing, admission to the School of Education, CURRINS 340(P) and CURRINS 504(C); or consent of instructor.**Course Rules:** Counts as a repeat of TCH LRN 409 or EXCEDUC 649.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 442 Student Teaching in Bilingual Education**

2-12 cr. Undergraduate.

Students pursuing a supplemental certification in bilingual: EC, MC-EA, EA-A, or EC-A.

**Prerequisites:** jr st & admis to student teaching.**Course Rules:** May be retaken to 12 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 443 Pre-Student Teaching in English as a Second Language Education**

2-12 cr. Undergraduate.

Students pursuing English as a Second Language teacher certification.

**Prerequisites:** junior standing; eligibility for student teaching; or consent of instructor.**Course Rules:** May be retaken to max of 12 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 444 Student Teaching in English as a Second Language Education**

2-12 cr. Undergraduate.

Students pursuing ESL teacher certification.

**Prerequisites:** junior standing; eligibility for student teaching; or consent of instructor.

**Course Rules:** May be retaken to max of 12 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 445 Seminar in Language Education**

3 cr. Undergraduate.

Provides student teachers in the Language Education program support to reflect on their student teaching experience and successfully complete the program portfolio.

**Prerequisites:** Admis to School of Educ; CURRINS 437(C), CURRINS 438(C), CURRINS 442(C), CURRINS 443(C), or CURRINS 444(C).

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 452 Student Teaching in English**

2-6 cr. Undergraduate.

**Prerequisites:** jr st; eligibility for student teaching & dept req.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 470 Professional Urban Teaching Linking Seminar:**

2 cr. Undergraduate.

Facilitates professional growth and development of teachers through structured inquiry, professional collaboration to solve problems in urban teaching, and personal assessment of progress using portfolios.

**Prerequisites:** jr st; admis to School of Educ.

**Course Rules:** May be retaken/chg in topic to max of 8 cr.

**Last Taught:** Fall 2014, Spring 2014, Fall 2013, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 471 Student Teaching Seminar: The Effective Urban Educator**

3 cr. Undergraduate.

Seminar to support student teachers in elementary and middle education. Emphasis on reflective practice, culturally responsive teaching, and professionalism.

**Prerequisites:** junior standing, admis to the School of Education and CURRINS 407(C); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 497 Study Abroad**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing, consent of instructor, and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Summer 2023, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 497G Study Abroad**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing, consent of instructor, and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Summer 2023, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 499 Independent Reading:**

1-4 cr. Undergraduate.

**Prerequisites:** jr st.

**Course Rules:** May be retaken.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 500 Workshop in Curriculum and Instruction:**

1-6 cr. Undergraduate/Graduate.

Development of teacher growth through problem solving, self-expression, group thinking, and individual study. Individuals or small groups work on problems growing out of their professional needs. Specific topics and any additional prerequisites will be announced in Timetable each time the course is offered.

**Prerequisites:** jr st or grad st.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2009, Summer 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 500G Workshop in Curriculum and Instruction:**

1-6 cr. Undergraduate/Graduate.

Development of teacher growth through problem solving, self-expression, group thinking, and individual study. Individuals or small groups work on problems growing out of their professional needs. Specific topics and any additional prerequisites will be announced in Timetable each time the course is offered.

**Prerequisites:** jr st or grad st.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2009, Summer 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 501 Language Acquisition for Children of Diverse Backgrounds**

3 cr. Undergraduate.

Examination of theories of language acquisition and development for children of diverse backgrounds. Teaching methods for developing literacy and biliteracy. Methods of sheltered language instruction.

**Prerequisites:** sophomore standing, admission to the School of Education, CURRINS 312(P) and CURRINS 240(C); or consent of instructor.

**Course Rules:** Counts as a repeat of TCH LRN 501.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 502 Emergent Literacy and Biliteracy in the Early Childhood Classroom**

3 cr. Undergraduate.

Study of literacy and biliteracy development of young children and teaching methods to support this development in the early childhood classroom.

**Prerequisites:** jr st, admis to School of Educ, CURRINS 501(P) and CURRINS 340(C); or con instr.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 503 Assessment Issues in Language Education**

3 cr. Undergraduate/Graduate.

Approaches to assessment of first and second language learning including rationale, traditional and alternative strategies, interpretation of results for placement, instruction, and program evaluation.

**Prerequisites:** jr st or instr cons; admis to School of Educ or grad st.

**Last Taught:** Summer 2016, Summer 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 503G Assessment Issues in Language Education**

3 cr. Undergraduate/Graduate.

Approaches to assessment of first and second language learning including rationale, traditional and alternative strategies, interpretation of results for placement, instruction, and program evaluation.

**Prerequisites:** jr st or instr cons; admis to School of Educ or grad st.

**Last Taught:** Summer 2016, Summer 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 504 Methods for Biliteracy and Language Arts in Primary Grades**

3 cr. Undergraduate.

Study of literacy and biliteracy development of young children and teaching methods to support this development in the primary grades.

**Prerequisites:** jr st, admis to SOE, CURRINS 502(P) and CURRINS 440(C); or cons instr.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 505 Collaborative Relationships with Families, Schools and Communities**

3 cr. Undergraduate.

Theory and strategies for developing effective family-school relationships, with a focus on urban issues. Topics include: teacher-family communications, family education and support, community resources.

**Prerequisites:** jr st; admis to SOE; or cons instr.

**Last Taught:** Fall 2016, Summer 2016, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 508 Language and Urban Schooling**

3 cr. Undergraduate/Graduate.

General overview of the major issues in both first and second language acquisition, and the relevant implications for urban schooling.

**Prerequisites:** jr st & admis to School of Educ, or grad st; or cons instr.

**Last Taught:** Fall 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 508G Language and Urban Schooling**

3 cr. Undergraduate/Graduate.

General overview of the major issues in both first and second language acquisition, and the relevant implications for urban schooling.

**Prerequisites:** jr st & admis to School of Educ, or grad st; or cons instr.

**Last Taught:** Fall 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 509 Reading and Social Welfare**

1 cr. Undergraduate/Graduate.

Reading process, characteristics of effective reading programs and bibliotherapy as they relate to the work of school social workers.

**Prerequisites:** admis to Helen Bader School of Social Welfare.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 509G Reading and Social Welfare**

1 cr. Undergraduate/Graduate.

Reading process, characteristics of effective reading programs and bibliotherapy as they relate to the work of school social workers.

**Prerequisites:** admis to Helen Bader School of Social Welfare.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 510 Cooperative Strategies for Pre and Early Adolescents**

1-3 cr. Undergraduate/Graduate.

Teaching and management strategies consistent with fostering productive learning environments for pre and early adolescents.

**Prerequisites:** admis to School of Educ, or grad st.

**Course Rules:** May be retaken to max of 3 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 510G Cooperative Strategies for Pre and Early Adolescents**

1-3 cr. Undergraduate/Graduate.

Teaching and management strategies consistent with fostering productive learning environments for pre and early adolescents.

**Prerequisites:** admis to School of Educ, or grad st.

**Course Rules:** May be retaken to max of 3 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 511 Curriculum and Guidance for Social-Emotional Learning**

3 cr. Undergraduate.

Study of classroom teaching strategies and curriculum and guidance methods designed to enhance children's social/emotional learning.

**Prerequisites:** junior standing and admission to the School of Education.

**Course Rules:** Counts as a repeat of TCH LRN 511.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 512 Reflective Practice in Early Childhood Teaching and Learning**

3 cr. Undergraduate.

Examination of connections between the urban context, ways of understanding diversity, and professional practice in early childhood classrooms, including implications of pedagogy, curriculum, and instruction.

**Prerequisites:** sophomore standing, admission to the School of Education, and CURRINS 312(P); or consent of instructor.

**Course Rules:** Counts as a repeat of TCH LRN 512.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CURRINS 514 Field Work II in Early Childhood Education-Primary**

1 cr. Undergraduate.

Field experience with children in grades 1 through 3. Completion of assignments associated with CURRINS 504 while gaining practical experience in the classroom.

**Prerequisites:** jr st, CURRINS 502(P) and CURRINS 504(C).

**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 516 Field Work in Middle School**

2-6 cr. Undergraduate/Graduate.

Implementation of strategies learned in the 6-12 teacher education program

**Prerequisites:** admis to School of Educ or grad st.

**Course Rules:** May be taken to max of 6 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 516G Field Work in Middle School**

2-6 cr. Undergraduate/Graduate.

Implementation of strategies learned in the 6-12 teacher education program

**Prerequisites:** admis to School of Educ or grad st.

**Course Rules:** May be taken to max of 6 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 518 Science Methods I: Middle/Secondary Methods and Fieldwork**

3-6 cr. Undergraduate/Graduate.

The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science.

**Prerequisites:** admis to School of Educ, or grad st.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 518G Science Methods I: Middle/Secondary Methods and Fieldwork**

3-6 cr. Undergraduate/Graduate.

The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science.

**Prerequisites:** admis to School of Educ, or grad st.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 519 Science Methods II: Middle/Secondary Methods and Fieldwork**

3-6 cr. Undergraduate/Graduate.

The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science. Includes fieldwork in middle/secondary school.

**Prerequisites:** admis to School of Educ or grad st.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 519G Science Methods II: Middle/Secondary Methods and Fieldwork**

3-6 cr. Undergraduate/Graduate.

The objectives, curriculum, instructional strategies, and assessment of middle/secondary school science. Includes fieldwork in middle/secondary school.

**Prerequisites:** admis to School of Educ or grad st.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 520 Developing Mathematical Thinking in Young Children**

3 cr. Undergraduate/Graduate.

Teaching and learning of mathematics, grades pre k-3. Emphasis on problem-solving, communication, developmentally appropriate experiences with whole numbers, fractions, geometry, measurement, and data analysis.

**Prerequisites:** junior standing, admis to the School of Education, and a grade of C or better in MATH 176(P); or consent of instructor.

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 520G Developing Mathematical Thinking in Young Children**

3 cr. Undergraduate/Graduate.

Teaching and learning of mathematics, grades pre k-3. Emphasis on problem-solving, communication, developmentally appropriate experiences with whole numbers, fractions, geometry, measurement, and data analysis.

**Prerequisites:** junior standing, admis to the School of Education, and a grade of C or better in MATH 176(P); or consent of instructor.

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 522 Economic Education**

3 cr. Undergraduate/Graduate.

Approaches to teaching economic principles. Applications of economic reasoning to current problems. Curricular implications for school programs, grades K-12.

**Prerequisites:** jr st.

**Last Taught:** Fall 2006, Summer 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 522G Economic Education**

3 cr. Undergraduate/Graduate.

Approaches to teaching economic principles. Applications of economic reasoning to current problems. Curricular implications for school programs, grades K-12.

**Prerequisites:** jr st.

**Last Taught:** Fall 2006, Summer 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 523 Current Issues and Practices in the Teaching of Social Studies**

3 cr. Undergraduate/Graduate.

Examination of current issues in social studies curriculum reform. Emphasis on the latest research and teaching practices.

**Prerequisites:** CURRINS 323(P) or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 523G Current Issues and Practices in the Teaching of Social Studies**

3 cr. Undergraduate/Graduate.

Examination of current issues in social studies curriculum reform.

Emphasis on the latest research and teaching practices.

**Prerequisites:** CURRINS 323(P) or grad st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 525 Environmental Resources Workshop:**

1-3 cr. Undergraduate/Graduate.

Methods and curriculum for teaching about environmental problems.

Topic-specific prereq will be published in the Schedule of Classes

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to max of 6 cr.**Last Taught:** Summer 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 525G Environmental Resources Workshop:**

1-3 cr. Undergraduate/Graduate.

Methods and curriculum for teaching about environmental problems.

Topic-specific prereq will be published in the Schedule of Classes

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to max of 6 cr.**Last Taught:** Summer 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 527 Science in the Elementary School**

3 cr. Undergraduate/Graduate.

Study of science curriculum materials; instructional procedures; analysis of pupil learning modes; experience with science equipment; teaching of science as inquiry; individual problems and projects.

**Prerequisites:** jr st & admis to School of Educ; or grad st.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 527G Science in the Elementary School**

3 cr. Undergraduate/Graduate.

Study of science curriculum materials; instructional procedures; analysis of pupil learning modes; experience with science equipment; teaching of science as inquiry; individual problems and projects.

**Prerequisites:** jr st & admis to School of Educ; or grad st.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 530 Workshop in Computer Instruction in the Schools**

3 cr. Undergraduate/Graduate.

Examination, construction and evaluation of computer extended instruction. Emphasis on participant development of curriculum materials and instructional procedures centered on pupil development.

**Prerequisites:** jr st; cons instr.**Course Rules:** Not open to students who have cr in ED PSY 530, which is identical to CURRINS 530.**Last Taught:** Summer 2005, Summer 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 530G Workshop in Computer Instruction in the Schools**

3 cr. Undergraduate/Graduate.

Examination, construction and evaluation of computer extended instruction. Emphasis on participant development of curriculum materials and instructional procedures centered on pupil development.

**Prerequisites:** jr st; cons instr.**Course Rules:** Not open to students who have cr in ED PSY 530, which is identical to CURRINS 530.**Last Taught:** Summer 2005, Summer 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 531 Teaching of Computer Science**

3 cr. Undergraduate/Graduate.

Methods and curriculum for the teaching of computer science in the secondary schools. A brief introduction to management of a computer laboratory.

**Prerequisites:** jr st & admis to School of Educ and COMPSCI 351(P); or grad st.**Last Taught:** Summer 2013, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 531G Teaching of Computer Science**

3 cr. Undergraduate/Graduate.

Methods and curriculum for the teaching of computer science in the secondary schools. A brief introduction to management of a computer laboratory.

**Prerequisites:** jr st & admis to School of Educ and COMPSCI 351(P); or grad st.**Last Taught:** Summer 2013, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 532 Teaching of Mathematics: Secondary**

3 cr. Undergraduate/Graduate.

Methods and curriculum for the teaching of mathematics in middle and high schools.

**Prerequisites:** jr st; admis to School of Educ.**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 532G Teaching of Mathematics: Secondary**

3 cr. Undergraduate/Graduate.

Methods and curriculum for the teaching of mathematics in middle and high schools.

**Prerequisites:** jr st; admis to School of Educ.**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 533 Foreign Language Workshop**

1-4 cr. Undergraduate/Graduate.

Analysis of current developments and changes in foreign language education. Critical examination of specific problems, conflicts, and trends -e.g. in teaching basic skills, teaching culture and literature, use of audio-visual materials and the language laboratory; the effect of current competition and foreign language student teaching supervision. Study of curriculum revision and of instructional materials. Individual curriculum projects or research possibilities.

**Prerequisites:** jr st & cons dept. Not available for grad cr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 533G Foreign Language Workshop**

1-4 cr. Undergraduate/Graduate.

Analysis of current developments and changes in foreign language education. Critical examination of specific problems, conflicts, and trends -e.g. in teaching basic skills, teaching culture and literature, use of audio-visual materials and the language laboratory; the effect of current competition and foreign language student teaching supervision. Study of curriculum revision and of instructional materials. Individual curriculum projects or research possibilities.

**Prerequisites:** jr st & cons dept. Not available for grad cr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 534 Instructional Strategies in Early Childhood Education**

3 cr. Undergraduate.

Study of instructional strategies and practices in the early childhood classroom to promote effective teaching and engaged learning for all children.

**Prerequisites:** jr st & admis to SOE; or cons instr.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 535 Methods and Techniques in Affective Education**

1-3 cr. Undergraduate/Graduate.

Basic principles and practical techniques for instruction in the affective domain are modeled and practiced. Although process oriented, the course does not neglect theoretical frameworks.

**Prerequisites:** jr st.**Last Taught:** Fall 2009, Spring 1990.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 535G Methods and Techniques in Affective Education**

1-3 cr. Undergraduate/Graduate.

Basic principles and practical techniques for instruction in the affective domain are modeled and practiced. Although process oriented, the course does not neglect theoretical frameworks.

**Prerequisites:** jr st.**Last Taught:** Fall 2009, Spring 1990.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 536 Literacy 1: Assessing and Teaching Early Literacy**

3 cr. Undergraduate/Graduate.

Addresses early reading and language arts assessment and instruction with diverse learners. Includes concurrent clinical experience.

**Prerequisites:** jr st, CURRINS 306(C) & admis to SOE; or cons instr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 536G Literacy 1: Assessing and Teaching Early Literacy**

3 cr. Undergraduate/Graduate.

Addresses early reading and language arts assessment and instruction with diverse learners. Includes concurrent clinical experience.

**Prerequisites:** jr st, CURRINS 306(C) & admis to SOE; or cons instr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 537 Literacy 2: Assessing and Teaching Literacy through Early Adolescence**

3 cr. Undergraduate/Graduate.

The role of reading and language arts assessment and instruction with diverse learners elementary and middle school classrooms with particular emphasis on comprehension, vocabulary, and disciplinary literacy.

**Prerequisites:** junior standing and admis to the School of Education; or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 537G Literacy 2: Assessing and Teaching Literacy through Early Adolescence**

3 cr. Undergraduate/Graduate.

The role of reading and language arts assessment and instruction with diverse learners elementary and middle school classrooms with particular emphasis on comprehension, vocabulary, and disciplinary literacy.

**Prerequisites:** junior standing and admis to the School of Education; or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 538 Literacy 3: Introduction to New Literacies**

3 cr. Undergraduate/Graduate.

Examines research based processes for literacy instruction, effects of and approaches for the use of technology on literacy development.

**Prerequisites:** jr st, admis to SOE and CURRINS 537(P); or cons instr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 538G Literacy 3: Introduction to New Literacies**

3 cr. Undergraduate/Graduate.

Examines research based processes for literacy instruction, effects of and approaches for the use of technology on literacy development.

**Prerequisites:** jr st, admis to SOE and CURRINS 537(P); or cons instr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 540 Advanced Field Experience in Early Childhood Education**

3-6 cr. Undergraduate.

Advanced field experience, culmination of pre-student teaching experiences.

**Prerequisites:** sr st, admis to SOE and CURRINS 440(P); or cons instr.**Course Rules:** May be retaken to 9 cr max.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 541 Principles and Methods of Teaching ESL**

3 cr. Undergraduate/Graduate.

Techniques of introducing ESL at the K-12 level. Teaching of basic language skills, especially listening comprehension and speaking. Curriculum materials and current literature in ESL. Micro teaching provided.

**Prerequisites:** jr st and admis to SOE; or cons instr**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 541G Principles and Methods of Teaching ESL**

3 cr. Undergraduate/Graduate.

Techniques of introducing ESL at the K-12 level. Teaching of basic language skills, especially listening comprehension and speaking. Curriculum materials and current literature in ESL. Micro teaching provided.

**Prerequisites:** jr st and admis to SOE; or cons instr**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 542 History and Politics of Second Language Education**

3 cr. Undergraduate/Graduate.

General overview of the history, politics, legal and social contexts of language education in the United States today.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 542G History and Politics of Second Language Education**

3 cr. Undergraduate/Graduate.

General overview of the history, politics, legal and social contexts of language education in the United States today.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 543 Developing Bilingual Literacy**

3 cr. Undergraduate/Graduate.

Stresses the practical application of theory and research on language development in a bilingual setting. The development of primary language skills is emphasized.

**Prerequisites:** jr st or cons instr; admis to School of Educ, or grad st.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 543G Developing Bilingual Literacy**

3 cr. Undergraduate/Graduate.

Stresses the practical application of theory and research on language development in a bilingual setting. The development of primary language skills is emphasized.

**Prerequisites:** jr st or cons instr; admis to School of Educ, or grad st.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 544 Improving the Teaching of Reading:**

1-3 cr. Undergraduate/Graduate.

Focuses on instructional problems of teachers in teaching developmental reading. Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st; teaching experience.**Course Rules:** May be retaken w/chg in topic to max of 6 cr.**Last Taught:** Fall 2004, Summer 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 544G Improving the Teaching of Reading:**

1-3 cr. Undergraduate/Graduate.

Focuses on instructional problems of teachers in teaching developmental reading. Specific topic and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st; teaching experience.**Course Rules:** May be retaken w/chg in topic to max of 6 cr.**Last Taught:** Fall 2004, Summer 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 545 Reading in the Content Areas: Middle, Junior, and Senior High School**

3 cr. Undergraduate/Graduate.

Survey of reading process and developmental reading in the middle, junior and senior high school. Emphasis on application of instructional techniques relating the use of reading within subject matter fields.

**Prerequisites:** jr st; admis to School of Educ or grad st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 545G Reading in the Content Areas: Middle, Junior, and Senior High School**

3 cr. Undergraduate/Graduate.

Survey of reading process and developmental reading in the middle, junior and senior high school. Emphasis on application of instructional techniques relating the use of reading within subject matter fields.

**Prerequisites:** jr st; admis to School of Educ or grad st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 546 Language, Content, and Comprehensible Input**

3 cr. Undergraduate/Graduate.

Theories and methods for delivering content to second language learners. Models of sheltered and learning strategies instruction will be explored.

**Prerequisites:** junior standing or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 546G Language, Content, and Comprehensible Input**

3 cr. Undergraduate/Graduate.

Theories and methods for delivering content to second language learners. Models of sheltered and learning strategies instruction will be explored.

**Prerequisites:** junior standing or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 547 Curricular Applications of the Internet**

3 cr. Undergraduate/Graduate.

Analysis and construction of internet based instruction focusing on the use of interactive media in grades 1-12.

**Prerequisites:** jr st & admis to School of Educ, or grad st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 547G Curricular Applications of the Internet**

3 cr. Undergraduate/Graduate.

Analysis and construction of internet based instruction focusing on the use of interactive media in grades 1-12.

**Prerequisites:** jr st & admis to School of Educ, or grad st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 550 Using Children's Literature to Explore Latin Am/Latino Cultural Heritage**

3 cr. Undergraduate/Graduate.

Using children's books that explore Latin American/Latino cultural heritage.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of CURRINS 579 with similar topic.**Last Taught:** Summer 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 550G Using Children's Literature to Explore Latin Am/Latino Cultural Heritage**

3 cr. Undergraduate/Graduate.

Using children's books that explore Latin American/Latino cultural heritage.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of CURRINS 579 with similar topic.**Last Taught:** Summer 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 551 Teaching of Language Arts**

1-4 cr. Undergraduate/Graduate.

Survey of curriculum, methods and materials in skills and expressive areas of language, linking theory with practical instructional strategies in both preschool and elementary settings.

**Prerequisites:** jr st & admis to School of Educ; or grad st.**Last Taught:** Summer 2010, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 551G Teaching of Language Arts**

1-4 cr. Undergraduate/Graduate.

Survey of curriculum, methods and materials in skills and expressive areas of language, linking theory with practical instructional strategies in both preschool and elementary settings.

**Prerequisites:** jr st & admis to School of Educ; or grad st.**Last Taught:** Summer 2010, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 552 Teaching Reading, Grades 1-3**

3 cr. Undergraduate/Graduate.

Foundations of reading and instructional strategies which support the development of literacy learning in the primary grades (grades 1-3) with concurrent teaching field experience.

**Prerequisites:** jr st, Admis to School of Educ; or grad st.**Course Rules:** Counts as repeat of 3 cr of CURRINS 506.**Last Taught:** Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 552G Teaching Reading, Grades 1-3**

3 cr. Undergraduate/Graduate.

Foundations of reading and instructional strategies which support the development of literacy learning in the primary grades (grades 1-3) with concurrent teaching field experience.

**Prerequisites:** jr st, Admis to School of Educ; or grad st.**Course Rules:** Counts as repeat of 3 cr of CURRINS 506.**Last Taught:** Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 553 Teaching Language Arts and Children's Literature, Grades 1-3**

3 cr. Undergraduate/Graduate.

Language arts instruction and children's literature in the middle childhood grades (grades 1-3) with concurrent teaching field experience.

**Prerequisites:** jr st; admis to School of Educ; or grad st.**Course Rules:** Counts as repeat of 3 cr of CURRINS 506.**Last Taught:** Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 553G Teaching Language Arts and Children's Literature, Grades 1-3**

3 cr. Undergraduate/Graduate.

Language arts instruction and children's literature in the middle childhood grades (grades 1-3) with concurrent teaching field experience.

**Prerequisites:** jr st; admis to School of Educ; or grad st.**Course Rules:** Counts as repeat of 3 cr of CURRINS 506.**Last Taught:** Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 554 Teaching Reading and Adolescent Literature, Grades 4-8**

3 cr. Undergraduate/Graduate.

Reading instruction and literature for early adolescents, grades 4-8 with concurrent teaching field experience.

**Prerequisites:** jr st; admis to School of Educ; CURRINS 552(P); or grad st.**Course Rules:** Counts as repeat of 3 cr of CURRINS 507.**Last Taught:** Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 554G Teaching Reading and Adolescent Literature, Grades 4-8**

3 cr. Undergraduate/Graduate.

Reading instruction and literature for early adolescents, grades 4-8 with concurrent teaching field experience.

**Prerequisites:** jr st; admis to School of Educ; CURRINS 552(P); or grad st.**Course Rules:** Counts as repeat of 3 cr of CURRINS 507.**Last Taught:** Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 555 Teaching Language Arts, Grades 4-8**

3 cr. Undergraduate/Graduate.

Language arts instruction in the early adolescent grades, grades 4-8, with concurrent teaching field experience.

**Prerequisites:** jr st; admis to School of Educ; CURRINS 553(P); or grad st.**Course Rules:** Counts as repeat of 3 cr of CURRINS 507.**Last Taught:** Fall 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 555G Teaching Language Arts, Grades 4-8**

3 cr. Undergraduate/Graduate.

Language arts instruction in the early adolescent grades, grades 4-8, with concurrent teaching field experience.

**Prerequisites:** jr st; admis to School of Educ; CURRINS 553(P); or grad st.**Course Rules:** Counts as repeat of 3 cr of CURRINS 507.**Last Taught:** Fall 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 556 Professional Linking Seminar 1**

3 cr. Undergraduate/Graduate.

Linking seminar connected to Professional Semester 1 field experience.

**Prerequisites:** junior standing, admission to the School of Education, and CURRINS 306(C); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 556G Professional Linking Seminar 1**

3 cr. Undergraduate/Graduate.

Linking seminar connected to Professional Semester 1 field experience.

**Prerequisites:** junior standing, admission to the School of Education, and CURRINS 306(C); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 557 Professional Linking Seminar 2**

3 cr. Undergraduate/Graduate.

Linking seminar connect to Professional Semester 2 field experience.

**Prerequisites:** junior standing, admission to SOE, CURRINS 556(P) and CURRINS 307(C); or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 557G Professional Linking Seminar 2**

3 cr. Undergraduate/Graduate.

Linking seminar connect to Professional Semester 2 field experience.

**Prerequisites:** junior standing, admission to SOE, CURRINS 556(P) and CURRINS 307(C); or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 558 Professional Linking Seminar 3**

3 cr. Undergraduate/Graduate.

Linking seminar connected to Professional Semester 3 field experience.

**Prerequisites:** junior standing, admission to SOE, CURRINS 557(P) and CURRINS 406(C); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 558G Professional Linking Seminar 3**

3 cr. Undergraduate/Graduate.

Linking seminar connected to Professional Semester 3 field experience.

**Prerequisites:** junior standing, admission to SOE, CURRINS 557(P) and CURRINS 406(C); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 560 Improving Mathematics Teaching and Learning:**

1-3 cr. Undergraduate/Graduate.

Focuses on instructional and curricular issues in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st or grad st.**Course Rules:** May be retaken w/chg in topic to 18 cr max.**Last Taught:** Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 560G Improving Mathematics Teaching and Learning:**

1-3 cr. Undergraduate/Graduate.

Focuses on instructional and curricular issues in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st or grad st.**Course Rules:** May be retaken w/chg in topic to 18 cr max.**Last Taught:** Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 561 Mathematics Learners in Special Education I**

3 cr. Undergraduate/Graduate.

Introduction to the teaching and learning of mathematics in special education. Emphasis on students' mathematical development, assessment, instructional approaches, and curricular supports.

**Prerequisites:** jr st; MATH 176(P); admis to Exceptional Education cert prog.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 561G Mathematics Learners in Special Education I**

3 cr. Undergraduate/Graduate.

Introduction to the teaching and learning of mathematics in special education. Emphasis on students' mathematical development, assessment, instructional approaches, and curricular supports.

**Prerequisites:** jr st; MATH 176(P); admis to Exceptional Education cert prog.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 562 Mathematics Learners in Special Education II**

3 cr. Undergraduate/Graduate.

Continued study of students mathematical development, instructional approaches, and curricular supports in K-12 mathematics.

**Prerequisites:** jr st; CURRINS 561(P); admis to Exceptional Education certificate program.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 562G Mathematics Learners in Special Education II**

3 cr. Undergraduate/Graduate.

Continued study of students mathematical development, instructional approaches, and curricular supports in K-12 mathematics.

**Prerequisites:** jr st; CURRINS 561(P); admis to Exceptional Education certificate program.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 565 Pedagogy Labs:**

1 cr. Undergraduate.

Students concurrently or previously enrolled in content-specific courses will study issues of teaching pedagogy related to that content.

**Prerequisites:** cons instr.**Course Rules:** May be retaken w/chg in topic to 6 credit max.**Last Taught:** Fall 2012, Summer 2012, Spring 2012, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 566 Pedagogy Labs - Linking English Content and Processes with Pedagogy**

1 cr. Undergraduate.

Examines the instructional implications for English content and processes and is taken concurrently with ENGLISH 201.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of CURRINS 565 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 567 Pedagogy Labs - Linking History Content and Processes with Pedagogy**

1 cr. Undergraduate.

Examines the instructional implications for history content and processes and is taken concurrently with HIST152.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of CURRINS 565 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 569 Pedagogy Labs - Linking Mathematics Content and Processes with Pedagogy**

1 cr. Undergraduate.

Examines connections between the content material of mathematics courses MATH 175, MATH 176, MATH, 275, MATH 276, MATH 277, MATH 278 and K-12 pedagogical practices. Taken concurrently with one of the courses listed.

**Prerequisites:** one of the following: MATH 175(C), MATH 176(C), MATH 275(C), MATH 276(C), MATH 277(C) or MATH 278(C).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 570 Improving Science Teaching and Learning:**

1-3 cr. Undergraduate/Graduate.

Focuses on instructional and curricular issues in science. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st; teaching experience.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Summer 2015, Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 570G Improving Science Teaching and Learning:**

1-3 cr. Undergraduate/Graduate.

Focuses on instructional and curricular issues in science. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st; teaching experience.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Summer 2015, Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 579 Current Topics in Curriculum and Instruction:**

1-3 cr. Undergraduate/Graduate.

The specific topic will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st, cons instr.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr including cr earned under CURRINS 779.

**Last Taught:** Summer 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 579G Current Topics in Curriculum and Instruction:**

1-3 cr. Undergraduate/Graduate.

The specific topic will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st, cons instr.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr including cr earned under CURRINS 779.

**Last Taught:** Summer 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 580 Mathematics Education:**

1-3 cr. Undergraduate/Graduate.

Analysis of school and classroom practices in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st or grad st.

**Course Rules:** Retakeable.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 580G Mathematics Education:**

1-3 cr. Undergraduate/Graduate.

Analysis of school and classroom practices in mathematics. Specific topics and any additional prereqs will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st or grad st.

**Course Rules:** Retakeable.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 585 Best Practices in Early Childhood for Children and Families**

3 cr. Undergraduate/Graduate.

Child care as a family-friendly community including integration of child growth and development principles into all aspects of the program.

**Prerequisites:** junior standing; admis to child care director's program or consent of instructor.

**Last Taught:** Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 585G Best Practices in Early Childhood for Children and Families**

3 cr. Undergraduate/Graduate.

Child care as a family-friendly community including integration of child growth and development principles into all aspects of the program.

**Prerequisites:** junior standing; admis to child care director's program or consent of instructor.

**Last Taught:** Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 593 Supervision of Student Teaching**

1 cr. Undergraduate/Graduate.

Roles and responsibilities of the supervising teacher in planning, guidance and evaluation of the learning experiences of prospective teachers.

**Prerequisites:** current teacher certification.

**Last Taught:** Summer 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 593G Supervision of Student Teaching**

1 cr. Undergraduate/Graduate.

Roles and responsibilities of the supervising teacher in planning, guidance and evaluation of the learning experiences of prospective teachers.

**Prerequisites:** current teacher certification.

**Last Taught:** Summer 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 601 Early Childhood Seminar in Student Teaching**

3 cr. Undergraduate.

Collaboration around challenges encountered in urban student teaching through a structured inquiry format with peers.

**Prerequisites:** senior standing, admission to the School of Education, and CURRINS 640(C); or consent of instructor.

**Course Rules:** Counts as a repeat of TCH LRN 601.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 602 Early Childhood Education**

1-4 cr. Undergraduate/Graduate.

Basic principles of curriculum planning for young children. Education in nursery schools, day care centers, kindergartens and primary grades. A study of the materials of instruction and techniques of teaching at this level.

**Prerequisites:** jr st.**Last Taught:** Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 602G Early Childhood Education**

1-4 cr. Undergraduate/Graduate.

Basic principles of curriculum planning for young children. Education in nursery schools, day care centers, kindergartens and primary grades. A study of the materials of instruction and techniques of teaching at this level.

**Prerequisites:** jr st.**Last Taught:** Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 612 Collaborations for Teachers with Families, Schools, and Communities**

3 cr. Undergraduate/Graduate.

Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.

**Prerequisites:** jr st; admis to SOE; or cons instr.**Course Rules:** Counts as repeat of CURRINS 505 and EXCEDUC 651.

Jointly offered with and counts as repeat of EXCEDUC 612.

**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 612G Collaborations for Teachers with Families, Schools, and Communities**

3 cr. Undergraduate/Graduate.

Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.

**Prerequisites:** jr st; admis to SOE; or cons instr.**Course Rules:** Counts as repeat of CURRINS 505 and EXCEDUC 651.

Jointly offered with and counts as repeat of EXCEDUC 612.

**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 624 Instructional Trajectories for Fraction Concepts and Operations**

3 cr. Undergraduate/Graduate.

Examination of mathematical trajectories for teaching fractions with focus on evidence-based instructional and assessment strategies and analysis of curriculum.

**Prerequisites:** jr st; teaching experience, or cons instr.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 624G Instructional Trajectories for Fraction Concepts and Operations**

3 cr. Undergraduate/Graduate.

Examination of mathematical trajectories for teaching fractions with focus on evidence-based instructional and assessment strategies and analysis of curriculum.

**Prerequisites:** jr st; teaching experience, or cons instr.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 625 Principles and Practices of Teaching Geometry and Geometric Thinking**

3 cr. Undergraduate/Graduate.

Examination of instructional sequences for geometry and analysis of teaching strategies for developing and assessing students' geometric thought.

**Prerequisites:** jr st; teaching experience.**Course Rules:** Counts as repeat of CURRINS 560 with topic Geometry and Geometric Thinking.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 625G Principles and Practices of Teaching Geometry and Geometric Thinking**

3 cr. Undergraduate/Graduate.

Examination of instructional sequences for geometry and analysis of teaching strategies for developing and assessing students' geometric thought.

**Prerequisites:** jr st; teaching experience.**Course Rules:** Counts as repeat of CURRINS 560 with topic Geometry and Geometric Thinking.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 626 Principles and Practices of Teaching Algebraic Reasoning**

3 cr. Undergraduate/Graduate.

Examination of instructional trajectories for algebra and analysis of teaching strategies for developing and assessing students' algebraic reasoning.

**Prerequisites:** jr st; teaching experience.**Last Taught:** Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 626G Principles and Practices of Teaching Algebraic Reasoning**

3 cr. Undergraduate/Graduate.

Examination of instructional trajectories for algebra and analysis of teaching strategies for developing and assessing students' algebraic reasoning.

**Prerequisites:** jr st; teaching experience.**Last Taught:** Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 629 Change and Change Strategies in Education**

1-4 cr. Undergraduate/Graduate.

This course will involve students in an exploration of individual groups and institutions as these elements relate to change processes in education. Models and strategies will be studied and applied to change problems.

**Prerequisites:** jr st; teaching experience.**Course Rules:** May be retaken to a 4 cr max.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CURRINS 629G Change and Change Strategies in Education**

1-4 cr. Undergraduate/Graduate.

This course will involve students in an exploration of individual groups and institutions as these elements relate to change processes in education. Models and strategies will be studied and applied to change problems.

**Prerequisites:** jr st; teaching experience.

**Course Rules:** May be retaken to a 4 cr max.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 630 Methods for Teaching, Managing, and Assessing English and Language Arts I**

6 cr. Undergraduate/Graduate.

Objectives, materials, and techniques for managing, teaching, and assessing the subject of English and language arts I.

**Prerequisites:** junior standing and admission to ELA Education 4-12 program; or graduate standing; or permission of program director.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 630G Methods for Teaching, Managing, and Assessing English and Language Arts I**

6 cr. Undergraduate/Graduate.

Objectives, materials, and techniques for managing, teaching, and assessing the subject of English and language arts I.

**Prerequisites:** junior standing and admission to ELA Education 4-12 program; or graduate standing; or permission of program director.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 631 Methods for Teaching, Managing, and Assessing English and Language Arts II**

6 cr. Undergraduate/Graduate.

Objectives, materials, and techniques for managing, teaching, and assessing the subject of English and language arts II.

**Prerequisites:** junior standing, admission to ELA Education 4-12 program, and CURRINS 630(P); or graduate standing; or permission of program director.

**Course Rules:** CURRINS 631 is taken concurrently with CURRINS 632 unless permission is granted by the program director.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 631G Methods for Teaching, Managing, and Assessing English and Language Arts II**

6 cr. Undergraduate/Graduate.

Objectives, materials, and techniques for managing, teaching, and assessing the subject of English and language arts II.

**Prerequisites:** junior standing, admission to ELA Education 4-12 program, and CURRINS 630(P); or graduate standing; or permission of program director.

**Course Rules:** CURRINS 631 is taken concurrently with CURRINS 632 unless permission is granted by the program director.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 632 Fieldwork in English and the Language Arts**

5 cr. Undergraduate/Graduate.

Implementation of strategies learned in the English and Language Arts, 4-12 teacher education program.

**Prerequisites:** junior standing, admission to ELA Education 4-12 program, and CURRINS 630(P); or graduate standing; or permission of program director.

**Course Rules:** CURRINS 632 is taken concurrently with CURRINS 631 unless permission is granted by the program director.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 632G Fieldwork in English and the Language Arts**

5 cr. Undergraduate/Graduate.

Implementation of strategies learned in the English and Language Arts, 4-12 teacher education program.

**Prerequisites:** junior standing, admission to ELA Education 4-12 program, and CURRINS 630(P); or graduate standing; or permission of program director.

**Course Rules:** CURRINS 632 is taken concurrently with CURRINS 631 unless permission is granted by the program director.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 633 English and Language Arts Student Teaching Seminar**

3 cr. Undergraduate/Graduate.

Provides student teachers in the English and Language Arts 4-12 education program support to reflect on their student teaching experience and successfully complete their capstone assessment for Wisconsin State certification.

**Prerequisites:** junior standing and admission to ELA Education 4-12 program; a grade of C+ or better in CURRINS 630(P) and CURRINS 631(P); or graduate standing; or permission of program director.

**Course Rules:** CURRINS 633 is taken concurrently with CURRINS 452 or CURRINS 700 unless permission is granted by the program director.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 633G English and Language Arts Student Teaching Seminar**

3 cr. Undergraduate/Graduate.

Provides student teachers in the English and Language Arts 4-12 education program support to reflect on their student teaching experience and successfully complete their capstone assessment for Wisconsin State certification.

**Prerequisites:** junior standing and admission to ELA Education 4-12 program; a grade of C+ or better in CURRINS 630(P) and CURRINS 631(P); or graduate standing; or permission of program director.

**Course Rules:** CURRINS 633 is taken concurrently with CURRINS 452 or CURRINS 700 unless permission is granted by the program director.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 637 World Language Methods and Materials**

3 cr. Undergraduate/Graduate.

Basic principles and practical instructional techniques intended to prepare teachers with experiences and background to teach world languages.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 637G World Language Methods and Materials**

3 cr. Undergraduate/Graduate.

Basic principles and practical instructional techniques intended to prepare teachers with experiences and background to teach world languages.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 639 Critical Issues and Methods in World Language Education**

3 cr. Undergraduate/Graduate.

Advanced preparation for teachers of world languages that will equip them for teaching world languages to students from early childhood through adolescence.

**Prerequisites:** jr st, CURRINS 637(P) or equiv, or cons instr.**Last Taught:** Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 639G Critical Issues and Methods in World Language Education**

3 cr. Undergraduate/Graduate.

Advanced preparation for teachers of world languages that will equip them for teaching world languages to students from early childhood through adolescence.

**Prerequisites:** jr st, CURRINS 637(P) or equiv, or cons instr.**Last Taught:** Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 640 Student Teaching in Early Childhood**

6-12 cr. Undergraduate.

Full semester experience in an early childhood classroom.

**Prerequisites:** sr st; admis to SOE; CURRINS 601(C); CURRINS 540(P); or cons instr.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 642G Teaching Standard English as an Alternate Dialect in Urban Schools**

1-4 cr. Undergraduate/Graduate.

Offered once per academic year, once every second summer. Linguistic aspects of application of research and scholarship to the problems of teaching standard english in urban schools. Includes recent curricular developments and micro teaching.

**Prerequisites:** jr st.**Course Rules:** Available as grad level only.**Last Taught:** Fall 1985.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 643 Balanced Literacy Instruction in the Elementary School**

1-3 cr. Undergraduate/Graduate.

Study and implementation of assessment and teaching strategies for balanced literacy instruction including phonics.

**Prerequisites:** jr st.**Course Rules:** May be retaken to 6 cr max. Not open for cr to students with CURRINS 343(ER) or equiv.**Last Taught:** Summer 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 643G Balanced Literacy Instruction in the Elementary School**

1-3 cr. Undergraduate/Graduate.

Study and implementation of assessment and teaching strategies for balanced literacy instruction including phonics.

**Prerequisites:** jr st.**Course Rules:** May be retaken to 6 cr max. Not open for cr to students with CURRINS 343(ER) or equiv.**Last Taught:** Summer 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 644 Enhancing Literacy Learning for Diverse Learners:**

3 cr. Undergraduate/Graduate.

Teaching reading and writing to diverse learners.

**Prerequisites:** currently teaching with at least 2 yrs experience; cons instr.**Course Rules:** Jointly offered with & subtitles count as repeat of same title of EXCEDUC 644. CURRINS 644 & EXCEDUC 644 may be retaken w/ chg in topic to combined 9 cr max.**Last Taught:** Fall 2004, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 644G Enhancing Literacy Learning for Diverse Learners:**

3 cr. Undergraduate/Graduate.

Teaching reading and writing to diverse learners.

**Prerequisites:** currently teaching with at least 2 yrs experience; cons instr.**Course Rules:** Jointly offered with & subtitles count as repeat of same title of EXCEDUC 644. CURRINS 644 & EXCEDUC 644 may be retaken w/ chg in topic to combined 9 cr max.**Last Taught:** Fall 2004, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 646 University of Wisconsin System Reading Research Symposium**

1-3 cr. Undergraduate/Graduate.

Updates students on most recent reading research. Students are required to attend the two-day symposium.

**Prerequisites:** jr st.**Course Rules:** May be retaken for credit.**Last Taught:** Summer 2023, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 646G University of Wisconsin System Reading Research Symposium**

1-3 cr. Undergraduate/Graduate.

Updates students on most recent reading research. Students are required to attend the two-day symposium.

**Prerequisites:** jr st.**Course Rules:** May be retaken for credit.**Last Taught:** Summer 2023, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 647 Early Reading Empowerment: Part 1**

3 cr. Undergraduate/Graduate.

First semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners.

**Prerequisites:** currently teaching, at least 2 years teaching experience, cons instr.**Last Taught:** Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 647G Early Reading Empowerment: Part 1**

3 cr. Undergraduate/Graduate.

First semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners.

**Prerequisites:** currently teaching, at least 2 years teaching experience, cons instr.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 648 Early Reading Empowerment: Part 2**

3 cr. Undergraduate/Graduate.

Second semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners.

**Prerequisites:** CURRINS 647(P), currently teaching, at least 2 years teaching experience, cons instr.

**Last Taught:** Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 648G Early Reading Empowerment: Part 2**

3 cr. Undergraduate/Graduate.

Second semester of a 2 semester practicum designed for practicing teachers; develop expertise in assessing and teaching reading to struggling early literacy learners.

**Prerequisites:** CURRINS 647(P), currently teaching, at least 2 years teaching experience, cons instr.

**Last Taught:** Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 649 Children's Literature**

1-4 cr. Undergraduate/Graduate.

To acquaint students with the wide range of good books for children and to provide wide reading experiences in children's literature; evaluation and use of current materials.

**Prerequisites:** jr st & admis to School of Educ; or grad st.

**Last Taught:** Spring 2007, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 649G Children's Literature**

1-4 cr. Undergraduate/Graduate.

To acquaint students with the wide range of good books for children and to provide wide reading experiences in children's literature; evaluation and use of current materials.

**Prerequisites:** jr st & admis to School of Educ; or grad st.

**Last Taught:** Spring 2007, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 650 Reading Interests of Adolescents**

3 cr. Undergraduate/Graduate.

Recently published literature for adolescents - types, themes, issues related to school programs.

**Prerequisites:** jr st.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 650G Reading Interests of Adolescents**

3 cr. Undergraduate/Graduate.

Recently published literature for adolescents - types, themes, issues related to school programs.

**Prerequisites:** jr st.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 651 Literature for the Young Child**

3 cr. Undergraduate.

Examines literature with young children to develop verbal fluency, aesthetic awareness and interest in reading. Rationales, specific instructional strategies, illustration styles and genres are discussed.

**Prerequisites:** soph st.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 653 Children's Literature: The Past Five Years**

3 cr. Undergraduate/Graduate.

Analysis of children's books published in the past five years. Arranged by genres, this course considers issues, trends, evaluative criteria, and classroom uses of books.

**Prerequisites:** jr st; CURRINS 649(P) or equiv.

**Last Taught:** Summer 2001, Summer 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 653G Children's Literature: The Past Five Years**

3 cr. Undergraduate/Graduate.

Analysis of children's books published in the past five years. Arranged by genres, this course considers issues, trends, evaluative criteria, and classroom uses of books.

**Prerequisites:** jr st; CURRINS 649(P) or equiv.

**Last Taught:** Summer 2001, Summer 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 655 Applied Educational Linguistics**

3 cr. Undergraduate/Graduate.

Explanation of linguistic principles which can be applied to language-based activities in the classroom and which can be useful in solving language-learning problems.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 655G Applied Educational Linguistics**

3 cr. Undergraduate/Graduate.

Explanation of linguistic principles which can be applied to language-based activities in the classroom and which can be useful in solving language-learning problems.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 657 Approaches to Teaching and Assessing Texts in the Secondary Schools**

3 cr. Undergraduate/Graduate.

Pedagogy and assessment of literature and other texts and their classroom applications: canonical and diverse literary selections; literary critical theory.

**Prerequisites:** jr st.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 657G Approaches to Teaching and Assessing Texts in the Secondary Schools**

3 cr. Undergraduate/Graduate.

Pedagogy and assessment of literature and other texts and their classroom applications: canonical and diverse literary selections; literary critical theory.

**Prerequisites:** jr st.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 658 Teaching and Assessing English**

3 cr. Undergraduate/Graduate.

The objectives, materials, techniques and assessments of teaching English. Covers language and writing methods.

**Prerequisites:** jr st, Admis to SOE & CURRINS 657(P); or grad st.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 658G Teaching and Assessing English**

3 cr. Undergraduate/Graduate.

The objectives, materials, techniques and assessments of teaching English. Covers language and writing methods.

**Prerequisites:** jr st, Admis to SOE & CURRINS 657(P); or grad st.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 659 Teaching and Assessing Grammar to Enrich Writing**

2-3 cr. Undergraduate/Graduate.

Current research about teaching grammar, and the historical, social, and political consequences associated with various approaches to grammar instruction and assessment.

**Prerequisites:** jr st.**Course Rules:** English Educ Cert students enroll for 2 cr; other Cert students enroll for 3 cr.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 659G Teaching and Assessing Grammar to Enrich Writing**

2-3 cr. Undergraduate/Graduate.

Current research about teaching grammar, and the historical, social, and political consequences associated with various approaches to grammar instruction and assessment.

**Prerequisites:** jr st.**Course Rules:** English Educ Cert students enroll for 2 cr; other Cert students enroll for 3 cr.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 664 Dramatizing Literature in Elementary Classrooms**

1-4 cr. Undergraduate/Graduate.

Nature of creativity in children; basic principles of informal playmaking, including movement, mime, characterization, dialogue, and conflict. Using children's ideas to develop literature-based dramatizations.

**Prerequisites:** jr st.**Last Taught:** Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 664G Dramatizing Literature in Elementary Classrooms**

1-4 cr. Undergraduate/Graduate.

Nature of creativity in children; basic principles of informal playmaking, including movement, mime, characterization, dialogue, and conflict. Using children's ideas to develop literature-based dramatizations.

**Prerequisites:** jr st.**Last Taught:** Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 668 Introduction to Instructional Technology**

1-4 cr. Undergraduate/Graduate.

The utilization of instructional technology. Emphasis is placed upon the effective integration and utilization of instructional media as based upon a systems approach to organization. Laboratory exercises included.

**Prerequisites:** jr st. Not available for grad cr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 668G Introduction to Instructional Technology**

1-4 cr. Undergraduate/Graduate.

The utilization of instructional technology. Emphasis is placed upon the effective integration and utilization of instructional media as based upon a systems approach to organization. Laboratory exercises included.

**Prerequisites:** jr st. Not available for grad cr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 675 Making Schools Work: Promoting Positive Change in Chronic Problem Behavior**

3 cr. Undergraduate/Graduate.

Methods of applying system theory, cybernetics, and communication theory concepts in classrooms and schools to help solve recurring interpersonal problems and improve educational effectiveness.

**Prerequisites:** grad st or cons instr.**Last Taught:** Spring 2009, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 675G Making Schools Work: Promoting Positive Change in Chronic Problem Behavior**

3 cr. Undergraduate/Graduate.

Methods of applying system theory, cybernetics, and communication theory concepts in classrooms and schools to help solve recurring interpersonal problems and improve educational effectiveness.

**Prerequisites:** grad st or cons instr.**Last Taught:** Spring 2009, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 700 Field Work in Schools, Agencies and Institutions:**

2-6 cr. Graduate.

Supervised field experience planned in conference with the student's major professor. An evaluation report required.

**Prerequisites:** grad st & cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 701 Curriculum Planning and Ideologies**

3 cr. Graduate.

The concept of elementary and secondary curriculum in modern american education. Foundation principles and major objectives.

**Prerequisites:** grad st.**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 702 Curriculum Problems and Practices in Early Childhood Education**

4 cr. Graduate.

Current trends in the education of children in day care centers, nursery schools, kindergartens and primary grades. Opportunities for study of individual problems of teachers at this level.

**Prerequisites:** grad st.**Last Taught:** Spring 2015, Spring 2012, Spring 2010, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 703 Advanced Curriculum in Early Childhood Education**

4 cr. Graduate.

Theoretical foundations of curriculum planning in early childhood education programs.

**Prerequisites:** grad st.**Course Rules:** Counts as repeat of CURRINS 779 with same topic.**Last Taught:** Fall 2014, Fall 2012, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 705 Research in Schools and Communities**

3 cr. Graduate.

Overview of content and inquiry in curriculum and instruction.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 710 Curriculum for Early Adolescents**

2-3 cr. Graduate.

Functions and purposes of schools for early adolescents; historical developments; types of curricula; instructional methods and techniques; recent developments and trends.

**Prerequisites:** grad st.**Last Taught:** Summer 1993, Spring 1993, Summer 1992, Spring 1992.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 714 Analysis of Instruction to Improve Teaching and Learning**

3 cr. Graduate.

Study of teaching behaviors and models. Examination of factors involved in deciding how to teach. Opportunity to analyze teaching and clarify personal teaching preferences.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 715 Guiding Instructional Improvement**

3 cr. Graduate.

Methods of applying the knowledge of instruction to solve instructional problems; ways of working with teachers to improve the quality of instructional behavior, styles and strategies.

**Prerequisites:** grad st; CURRINS 714(P) or cons dept.**Last Taught:** Summer 2023, Fall 2022, Summer 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 716 Teaching in Urban & Diverse Communities**

1-4 cr. Graduate.

Teaching in a culturally pluralistic setting. An examination of how the law, school policy and equity issues affect curriculum and instructional practices.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 720 Curriculum and Standards for School Mathematics**

3 cr. Graduate.

Overview of historical and current perspectives on curricular reforms and the standards movement in mathematics education.

**Prerequisites:** grad st.**Course Rules:** Counts as repeat of CURRINS 579 with topic National Mathematics Standards.**Last Taught:** Summer 2023, Fall 2020, Spring 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 721 Advanced Problems in the Teaching of Social Studies**

3 cr. Graduate.

For teachers with experience who wish to improve their understanding and skill; equal emphasis on theory and practice.

**Prerequisites:** grad st & cons instr.**Last Taught:** Summer 2021, Summer 2016, Spring 1990, Summer 1988.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 724 Advanced Problems in Science Education**

3 cr. Graduate.

Study of current issues and problems related to science instruction and curriculum developments, course planning, analysis of learning in the science classroom, techniques of evaluation, review of research in science education.

**Prerequisites:** grad st & science teaching experience.**Last Taught:** Fall 1993, Fall 1991, Spring 1990, Spring 1988.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 725 Improving Teaching and Learning with Classroom-Based Assessments**

3 cr. Graduate.

Development and implementation of classroom-based assessment instruments within existing large-scale state and district accountability systems.

**Prerequisites:** grad st.**Course Rules:** Jointly offered w/ & counts as repeat of ED PSY 725(P).**Last Taught:** Spring 2017, Spring 2014, Spring 2011, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 729 Qualitative Research and Field Studies in Educational Settings**

3 cr. Graduate.

Examination of qualitative techniques as applied to educational research and evaluation in schools, classrooms, and other educational settings.

**Prerequisites:** grad st; ED PSY 528(P) or equiv.**Course Rules:** Not open to students who have cr in AD LDSP 729 which is identical to CURRINS 729.**Last Taught:** Fall 2022, Fall 2021, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 730 Mathematics in Elementary Education**

3 cr. Graduate.

Current trends in mathematics instruction. Investigation of curricular scope and sequence as it relates to mathematics learning by children. Emphasis on special issues.

**Prerequisites:** grad st; teaching experience.**Last Taught:** Fall 2023, Spring 2021, Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 731 Mathematics in the Secondary School**

3 cr. Graduate.

Current trends in curriculum and instruction. Opportunity to work on special problems.

**Prerequisites:** grad st.

**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Fall 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 734 Advanced Problems in the Teaching of Foreign Languages**

3 cr. Graduate.

Close re-examination of instructional practices and the soundness of the underlying principles in a period of transition regarding aims, methods, content and psychological aspects of foreign language learning. The teaching of culture and other timely material in changing curricular expectations.

**Prerequisites:** grad st & teaching experience.

**Last Taught:** Fall 2006, Fall 2005, Fall 2001, Fall 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 740 UWM Writing Project: Teachers as Writers**

3 cr. Graduate.

Develop self-awareness as writer and compare understanding to theories of writing instruction. Analyze writing opportunities and reflect on experience in relation to classroom practice.

**Prerequisites:** grad st; acceptance into UWM Writing Project.

**Course Rules:** Counts as repeat of CURRINS 779 w/ same topic.

Concurrent enrollment in CURRINS 741 required.

**Last Taught:** Summer 2013, Summer 2012, Summer 2011, Summer 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 741 UWM Writing Project: Teacher Leadership in Writing**

3 cr. Graduate.

Analyze theory and research about writing in classrooms. Synthesize and evaluate various methods that enhance writing instruction leading to developing teacher as leader in writing.

**Prerequisites:** grad st; acceptance into UWM Writing Project.

**Course Rules:** Concurrent enrollment in CURRINS 740 required.

**Last Taught:** Summer 2016, Summer 2015, Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 742 UWM Writing Project:**

1-3 cr. Graduate.

Develop as a writer. Analyze theory and research about writing in classrooms. Synthesize and evaluate various methods that enhance writing instruction leading to developing teacher as leader in writing.

**Prerequisites:** graduate standing and acceptance into UWM Writing Project.

**Course Rules:** Retakable to 9 cr max.

**Last Taught:** Summer 2023, Summer 2022, Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 744 Secondary Developmental Reading Practicum**

2-4 cr. Graduate.

Analysis of developmental reading methods, assessment devices for secondary students, supervised classroom teaching practicum of secondary students.

**Prerequisites:** grad st; CURRINS 747(P) & CURRINS 545(P).

**Last Taught:** Summer 1997, Summer 1996, Summer 1995, Summer 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 746 Advanced Reading Education**

3 cr. Graduate.

Analysis and evaluation of research on reading processes, including psycholinguistic perspectives. Evaluation of reading models. Application to current approaches to teaching reading emphasized.

**Prerequisites:** grad st; CURRINS 643(P) or equiv.

**Last Taught:** Fall 1996, Fall 1995, Spring 1995, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 747 Reading Assessment and Instruction with Practicum: K-12 Part I**

3 cr. Graduate.

Analysis of the factors contributing to reading difficulty; use of formal and informal assessments with implications for instruction. Includes work with student who have reading difficulties.

**Prerequisites:** grad st; CURRINS 504(P), CURRINS 506(P),

CURRINS 544(P), CURRINS 545(P) or equiv; or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 748 Reading Assessment and Instruction with Practicum, K-12: Part II**

3 cr. Graduate.

Diagnosis, teaching, curriculum planning and materials for disabled readers. Students will work with small groups of elementary age disabled readers in a supervised tutorial situation.

**Prerequisites:** grad st; CurrIns 747(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 751 Language Arts in the Elementary School**

3 cr. Graduate.

Survey and critical appraisal of programs, practices and trends, emphasis on oral and written expression including spelling and handwriting; specific study of individual problems.

**Prerequisites:** grad st.

**Last Taught:** Fall 1986.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 753 Teaching Language and Composition**

3 cr. Graduate.

Consideration of problems, curricular materials and teaching procedures in the areas of language, grammar and written composition, with emphasis on language history and applications of linguistic knowledge.

**Prerequisites:** grad st.

**Last Taught:** Fall 2002, Spring 1985.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 754 Teaching Literature**

3 cr. Graduate.

Curriculum materials, methods of organization and approaches to the study of literature, with attention to problems of teaching prose fiction and nonfiction, drama and poetry. Micro teaching used.

**Prerequisites:** teaching experience & grad st.

**Last Taught:** Fall 2019, Fall 2016, Fall 2009, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 761 Mathematics Instructional Leadership**

3 cr. Graduate.

Study and development of teacher leadership for supporting effective mathematics instruction and high-leverage mathematics teaching practices through collaborative cultures and content-focused coaching.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2021, Spring 2021, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 774 College Teaching**

3 cr. Graduate.

Analyzes curricular issues and instructional practices in college and adult programs. Research on youth, college influences and adult change will be reviewed.

**Prerequisites:** grad st.**Last Taught:** Summer 2017, Summer 2016, Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 779 Current Topics in Curriculum and Instruction:**

1-3 cr. Graduate.

Specific topic announced in schedule of classes each time course is offered.

**Prerequisites:** grad st, cons instr.**Course Rules:** May be repeated with change in topic to max of 9 cr, including grad cr earned under CURRINS 579.**Last Taught:** Spring 2019, Fall 2017, Spring 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 799 Independent Reading:**

1-3 cr. Graduate.

**Prerequisites:** enrollment in master's prog.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 800 Master's Seminar in Curriculum and Instruction**

3 cr. Graduate.

Required for all curriculum and instruction students. Students develop and defend a seminar project. Master's examination is in conjunction with the seminar.

**Prerequisites:** grad st; 27 grad cr; cons dept; cons advisor**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 801 Urban Education: Doctoral Seminar in Curriculum & Instruction**

3 cr. Graduate.

Curriculum and instruction goals, programs, and practices in urban schools, as analyzed in varying critical perspectives.

**Prerequisites:** admis to PhD prog; Educ 701(P).**Last Taught:** Spring 2009, Spring 2008, Fall 2006, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 802 Recent Research in the Field of Early Childhood Education**

4 cr. Graduate.

A study of recent research in the area of early childhood education and in child development at these levels. Practical applications to the programs of day care centers, nursery schools, kindergartens and primary grades will be made.

**Prerequisites:** grad st.**Last Taught:** Summer 2016, Summer 2013, Summer 2010, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 803 Reflective Practice: Urban Early Childhood Teaching**

4 cr. Graduate.

The relationships between teaching practice and the socio-cultural-historical contexts of teaching; application to teaching through reflective analysis.

**Prerequisites:** grad st**Last Taught:** Fall 2015, Fall 2013, Fall 2011, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 805 History Of Curriculum Development**

3 cr. Graduate.

A study of the history of curriculum development in american education including major issues, movements and figures.

**Prerequisites:** grad st; ED POL 650(P); cons dept.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 813 Instructional Research and Theory**

3 cr. Graduate.

Examination of current research and theory concerning teacher behavior and its antecedents and consequences. Implications for teaching teacher training, evaluation of teaching, and classroom research.

**Prerequisites:** grad st; CURRINS 714(P) or cons dept.**Last Taught:** Fall 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 814 Seminar in Instruction**

3 cr. Graduate.

Individual instruction problems are examined. Emphasis is placed upon developing and carrying out a research project dealing with instruction.

**Prerequisites:** grad st; CURRINS 714(P) or cons dept.**Last Taught:** Fall 2014, Spring 2004, Summer 2001, Spring 1986.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 816 Curriculum Designs for Urban Schools**

3 cr. Graduate.

Examination of the problems of urban schools and the implications of these problems for the design of school curriculum.

**Prerequisites:** grad st; CURRINS 701(P) or CURRINS 716(P); or cons instr.**Last Taught:** Fall 2023, Summer 2023, Summer 2022, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 819 Theory and Design of Curriculum**

3 cr. Graduate.

Examination of the essential operations of curriculum from the point of view of common curriculum patterns, development of the theoretical considerations underlying the application of these operations to curriculum planning and development.

**Prerequisites:** grad st; CURRINS 701(P).**Last Taught:** Summer 2023, Spring 2023, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 829 Advanced Qualitative Research Techniques for Education Settings**

3 cr. Graduate.

Advanced examination of qualitative research techniques in three areas: conceptual design; data collection methods; and data analysis and reporting.

**Prerequisites:** AD LDSP 729(P)/CURRINS 729(P) or cons instr.**Course Rules:** Jointly offered and counts as repeat of AD LDSP 829.**Last Taught:** Spring 2000, Spring 1999, Spring 1998, Spring 1997.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 830 Seminar in Elementary School Mathematics Education**

3 cr. Graduate.

Critical issues in arithmetic instruction. Survey of research studies and their implications for instruction. Development and discussion of individual research problems.

**Prerequisites:** grad st; cons dept.**Last Taught:** Fall 2018, Summer 2014, Spring 2003, Summer 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 839 Practicum in Writing from Qualitative Research for Educational Settings**

3 cr. Graduate.

Practice in writing from qualitative research data and analysis of qualitative text.

**Prerequisites:** grad st; AD LDSP 829(P)/CURRINS 829(P) and AD LDSP 829(P)/CURRINS 829(P).**Course Rules:** Jointly offered with and counts as a repeat of AD LDSP 839.**Last Taught:** Summer 2018, Summer 2017, Summer 2016, Summer 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 846 Seminar in Developmental Reading:**

3 cr. Graduate.

Topics will vary. In-depth study of implications of trends and research for improving instruction and k-12 curriculum planning. Specific topic and any additional prerequisites will be announced in schedule of classes each time course is offered.

**Prerequisites:** grad st; CURRINS 746.**Course Rules:** May be retaken with change in topic to max of 6 cr.**Last Taught:** Summer 2012, Summer 2011, Summer 2010, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 849 Guiding and Directing School Reading Programs K-12**

3 cr. Graduate.

The role of the Reading Specialist/Literacy Coach in guiding and directing K-12 reading programs and supervising literacy instruction. Required for WI Reading Specialist license.

**Prerequisites:** grad st; CURRINS 747(P) and CURRINS 748 (P); CURRINS 646(P) or cons instr.**Last Taught:** Summer 2023, Summer 2021, Summer 2019, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 861 Seminar in Mathematics Urban Education**

3 cr. Graduate.

Focus on issues of equity and access to high-quality mathematics teaching, curriculum, and assessment for students with diverse cultural, linguistic, and economic backgrounds.

**Prerequisites:** grad st**Last Taught:** Spring 2020, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 864 Integrating Mathematics Education Research into Curriculum and Instruction**

3 cr. Graduate.

Using results from research on mathematics teaching and learning to shape teaching practice, including impacts on curriculum development, implementation, and pedagogical practice.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Spring 2021, Spring 2019, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 865 Mathematics Program Design and Development**

3 cr. Graduate.

Research-based practices for guiding and developing school and district mathematics curriculum and programs. Inquiry into problems of practice in mathematics education.

**Prerequisites:** grad st.**Last Taught:** Fall 2021, Spring 2021, Fall 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 870 Research Practicum**

1-3 cr. Graduate.

Independent research practicum. Application of qualitative and quantitative research methods to conduct a small-scale research study. Develop research questions, collect and analyze data, and report findings.

**Prerequisites:** grad st.**Course Rules:** Course is re-takeable to 30 credits.**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 880 Proseminar in Urban Education: Curriculum and Instruction**

2 cr. Graduate.

An examination of selected problems and issues in urban education.

**Prerequisites:** grad st; admis to urban educ doctoral prog.**Last Taught:** Fall 1985, Spring 1985, Fall 1984, Spring 1984.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Spring 2020, Fall 2018, Spring 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 890 Master's Research or Thesis**

3-6 cr. Graduate.

Research or thesis work for students in the master's program in curriculum and instruction.

**Prerequisites:** grad st; cons advisor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 900 Seminar In Curriculum Construction**

3 cr. Graduate.

Opportunity to develop curriculum materials or work on individual problems.

**Prerequisites:** grad st; cons dept.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**CURRINS 990 Doctoral Research or Thesis**

1-3 cr. Graduate.

**Prerequisites:** admis to doctoral prog.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**CURRINS 993 Seminar in the Pre-Service and In-Service Education of Teachers**

3 cr. Graduate.

For advanced students interested in problems of teacher education.

**Prerequisites:** grad st; cons dept.

**Last Taught:** Spring 2021, Spring 2006, Spring 1993, Summer 1990.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**CURRINS 999 Independent Reading**

1-3 cr. Graduate.

For the benefit of doctoral students unable to secure needed content in regular courses.

**Prerequisites:** post-masters or doctoral st; cons instr.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Dance (DANCE)

**DANCE 103 Introduction to Yoga**

2-3 cr. Undergraduate.

Fundamental components of yoga presented to enrich artistic appreciation of yoga as a philosophy and a physical art form through in-depth study and practice of asana (postures) and the historical and philosophical principles of yoga.

**Prerequisites:** none.

**Course Rules:** May be retaken to max of 3 sem. Dance majors register for 2 cr. Non-majors register for 3 cr.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 110 Bodies in Motion: Dance, Identity and Culture**

3 cr. Undergraduate.

Survey of Dance as an active agent in cultural production as we explore dance as a rich human activity with many different manifestations and applications.

**Prerequisites:** none.

**Course Rules:** May be retaken to a max of 2 semesters.

**General Education Requirements:** A

**Last Taught:** Spring 2022, Spring 2020, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 111 Ballet I**

2-3 cr. Undergraduate.

This beginning level class introduces ballet principles for those with little or no previous studio training. Alignment, verticality, and basic ballet movements are stressed.

**Prerequisites:** none.

**Course Rules:** May be retaken to a max of 3 sem. Dance majors register for 2 cr. Non-majors register for 3 cr.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 112 Contemporary Dance Practice: Ballet Tradition II**

2-3 cr. Undergraduate.

A continuation of Dance 111.

**Prerequisites:** Dance 111(P) or Dance major.

**Course Rules:** May be retaken to max of 3 sem.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 113 Modern Dance Technique I**

2-3 cr. Undergraduate.

Introduction to basic elements and principles of modern dance.

Anatomically correct use of body, moving with awareness, and use of varied movement qualities are stressed.

**Prerequisites:** none.

**Course Rules:** Dance majors register for 2 cr. Non-majors register for 3 cr. May be retaken to max of 9 cr.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 114 Contemporary Dance Practice: Modern Tradition II**

2-3 cr. Undergraduate.

Continuation of Dance 113.

**Prerequisites:** Dance major or Dance 113(P).

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 115 Jazz Dance I**

1-3 cr. Undergraduate.

Basics of percussive and lyrical jazz styles.

**Prerequisites:** none.

**Course Rules:** May be retaken to a max of 3 sem.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 116 Jazz Dance II**

1-3 cr. Undergraduate.

A continuation of Dance 115.

**Prerequisites:** Dance 115(P) or cons instr.

**Course Rules:** May be retaken to max of 3 sem.

**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 117 Tap I**

1-3 cr. Undergraduate.

The basics of tap dancing designed to instill rhythm and a sense of style.

**Prerequisites:** none.

**Course Rules:** May be retaken to max of 2 sem.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 122 African Dance & Diaspora Technique I**

2-3 cr. Undergraduate.

Philosophical and applied foundations of African-American dance.

Aesthetics, style, musical accompaniment, the role of dance as expression of socio-cultural experience. Emphasis on movement.

**Prerequisites:** none.

**Course Rules:** May be retaken to max of 3 sem.

**General Education Requirements:** A, CD

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 123 African Dance & Diaspora Technique II**

2-3 cr. Undergraduate.

A continuation of Dance 122.

**Prerequisites:** Dance 122(P) or cons instr.**Course Rules:** May be retaken to max of 3 sem.**Last Taught:** Spring 2016, Spring 2015, Fall 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 133 Creative Movement I**

2-3 cr. Undergraduate.

A class to develop the creative potential of each student in rhythm and movement.

**Prerequisites:** none.**Course Rules:** May be retaken to max of 9 cr. Dance BFA majors enroll in for 2 cr. Dance BA majors and non-majors enroll for 3 cr.**General Education Requirements:** A**Last Taught:** Fall 2014, Fall 2013, Fall 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 135 Introduction to Dancemaking Skills**

3 cr. Undergraduate.

A broad introduction to contemporary dancemaking choreographic and improvisational skills.

**Prerequisites:** Dance major.**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 192 Freshmen Seminar**

1 cr. Undergraduate.

Seminar to orient Dance majors to UWM, PSOA, Dance Department, Milwaukee dance community, and successful life as a dancer.

**Prerequisites:** Dance major.**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 209 Dance Production**

2 cr. Undergraduate.

Introduction to dance production theory, design and practical skills.

**Prerequisites:** Dance major or cons instr.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 211 Contemporary Dance Practice: Ballet Tradition III**

2-3 cr. Undergraduate.

A continuation of Dance 112.

**Prerequisites:** Dance 112(P) or cons instr.**Course Rules:** May be retaken to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 212 Contemporary Dance Practice: Ballet Tradition IV**

2-3 cr. Undergraduate.

A continuation of Dance 211.

**Prerequisites:** Dance 211(P) or cons instr.**Course Rules:** May be retaken to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 213 Contemporary Dance Practice: Modern Tradition III**

2-3 cr. Undergraduate.

Continuation of Dance 114.

**Prerequisites:** Dance 114(P) or cons instr.**Course Rules:** May be retaken to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 214 Contemporary Dance Practice: Modern Tradition IV**

2-3 cr. Undergraduate.

A continuation of Dance 213.

**Prerequisites:** Dance 213(P) or cons instr.**Course Rules:** May be retaken to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 217 Tap II**

2-3 cr. Undergraduate.

Continued exploration of tap dance technique. Study of complex rhythmic combinations and movements.

**Prerequisites:** Dance 117 (P) or cons instr.**Course Rules:** May be retaken to a max of 3 sem.**Last Taught:** Spring 2018, Spring 2016, Spring 2014, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 219 Arts in Community Service**

3 cr. Undergraduate.

Students acquire means to assess personal learning and techniques to assess impact of their service-learning work on community partner organizations. Prereq for regis in service-learning component of a dance course.

**Prerequisites:** none.**Last Taught:** Spring 2017, Spring 2016, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 220 Body Sense**

3 cr. Undergraduate.

This course intends to provide an environment for creative exploration of individual body awareness, integration of body-mind and experiencing the body in space.

**Prerequisites:** none.**Course Rules:** May be retaken to max of 6 cr.**General Education Requirements:** A**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 221 Body Sense II**

2-3 cr. Undergraduate.

Movement exercises from varied theories; intensified self-observation and documentation of experience. Stress on intrapersonal, interpersonal, emotional, and existential intelligences.

**Prerequisites:** Dance 220(P).**Course Rules:** May be retaken to max of 2 sem.**Last Taught:** Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 222 African Dance & Diaspora Technique III**

2-3 cr. Undergraduate.

A continuation of Dance 123.

**Prerequisites:** Dance 123(P) or cons instr.**Last Taught:** Spring 2023, Fall 2022, Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 223 African Dance & Diaspora Technique IV**

2-3 cr. Undergraduate.

A continuation of Dance 222.

**Prerequisites:** Dance 222(P) or cons instr.

**Last Taught:** Spring 2023, Spring 2015, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 231 Music and Dancers I**

3 cr. Undergraduate.

Beginning study of the relationship between dance and music. Emphasis on musical awareness, development of listening skills and the application of such skills to movement experiences.

**Prerequisites:** Dance or Inter-Arts major or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 233 Improvisation for Dancemaking**

3 cr. Undergraduate.

A structured exploration of movement invention process, and structuring movement sequences through use of movement games and systems.

**Prerequisites:** Dance major or cons instr.

**Course Rules:** May be retaken to max of 2 sem.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 250 Sophomore Seminar**

0 cr. Undergraduate.

Discussion of topics for 2nd year Dance majors.

**Prerequisites:** Dance 192(C).

**Course Rules:** Fee for 1 cr assessed.

**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 251 Laban/Bartenieff Movement Analysis**

3 cr. Undergraduate.

Exploration of the dynamics of movement, including space/time weight flow combinations, the body's approach to space, basic spatial forms (dimensional cross, planes, cube, tetrahedron), introduction to phrase writing.

**Prerequisites:** successful completion of GER QL-A.

**General Education Requirements:** QL B

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 261 Junior Seminar**

0 cr. Undergraduate.

Discussion of topics for 3rd year Dance majors.

**Prerequisites:** Dance 250(C).

**Course Rules:** Fee for 1 cr assessed.

**Last Taught:** Spring 2015, Fall 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 270 Hip-Hop Foundations I**

2-3 cr. Undergraduate.

Introduction to the dance, history, culture, and music of the hip hop movement forms and style.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of DANCE 370 with similar topic.

Repeatable to 9 cr max.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 272 Salsa, Merengue, and Bachata I**

2-3 cr. Undergraduate.

Exploration of Salsa, Merengue, and Bachata dance forms through partnering, footwork, and group performance and examines these movement styles and musical structures as entry points for studying cultural practices of the Latin Diaspora.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of DANCE 370 with similar topic.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 309 Dance Production Practicum**

1 cr. Undergraduate.

Dance 309 is a continuation of Dance 209 focusing on the application of an array of production skills.

**Prerequisites:** Dance 209(P) or cons instr.

**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 310 Jazz III**

2-3 cr. Undergraduate.

Continued study of jazz dance vocabulary and movement concepts.

**Prerequisites:** Dance 116 (P) or cons instr.

**Course Rules:** May be retaken to a max of 3 sem.

**Last Taught:** Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 311 Contemporary Dance Practice: Ballet Tradition V**

3 cr. Undergraduate.

Continuation of Dance 212.

**Prerequisites:** Dance 212(P) or cons instr.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 312 Contemporary Dance Practice: Ballet Tradition VI**

3 cr. Undergraduate.

Continuation of Dance 311.

**Prerequisites:** Dance 311(P) or cons instr.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Fall 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 313 History of Dance in the African Diaspora**

3 cr. Undergraduate.

The dance traditions of Africa and the Diaspora.

**Prerequisites:** successful completion of OWC-A

**General Education Requirements:** A, CD, OWCB

**Last Taught:** Fall 2012, Fall 2011, Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 314 Contemporary Dance History**

3 cr. Undergraduate.

Developments in modern dance from 1890's to the present with emphasis on comparative philosophies.

**Prerequisites:** successful completion of OWC-A

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 315 History of the American Musical Theater**

3 cr. Undergraduate.

Introduction to the origins, development and evolution of the American musical theater.

**Prerequisites:** successful completion of OWC-A.**General Education Requirements:** A, OWCB**Last Taught:** Fall 2018, Fall 2014, Fall 2011, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 317 Contemporary Dance Practice: Modern Tradition V**

3 cr. Undergraduate.

Continuation of Dance 214.

**Prerequisites:** Dance 214(P) or cons instr.**Course Rules:** May be retaken to max of 9 cr.**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 318 Contemporary Dance Practice: Modern Tradition VI**

3 cr. Undergraduate.

Continuation of Dance 317.

**Prerequisites:** Dance 317(P) or cons instr.**Course Rules:** May be retaken to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 319 Dance Service-Learning**

1-3 cr. Undergraduate/Graduate.

Service-Learning as field work in a community partnership setting under supervision of Dance faculty member.

**Prerequisites:** jr st; Dance 219(P), & cons instr.**Course Rules:** Conc reg in dance course which allows Dance 319 component by cons instr. May be retaken to max of 4 sem or 9 cr.**Last Taught:** Spring 2022, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 319G Dance Service-Learning**

1-3 cr. Undergraduate/Graduate.

Service-Learning as field work in a community partnership setting under supervision of Dance faculty member.

**Prerequisites:** jr st; Dance 219(P), & cons instr.**Course Rules:** Conc reg in dance course which allows Dance 319 component by cons instr. May be retaken to max of 4 sem or 9 cr.**Last Taught:** Spring 2022, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 320 Rituals and Culture**

2-3 cr. Undergraduate.

Sources, dimensions, and elements of ritual; values being ritualized.

Creating ritual components through storytelling, singing/chanting, movement/gestures, wearing/carrying special clothing/objects.

**Prerequisites:** soph st.**Course Rules:** May be retaken to max of 2 sem.**General Education Requirements:** A**Last Taught:** Spring 2016, Fall 2014, Spring 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 321 Alexander Technique for the Performer**

2-3 cr. Undergraduate.

Introduction to the principles of Alexander Technique as it applies to performing artists and new media collaborations.

**Prerequisites:** none.**Course Rules:** Dance Majors and Somatics Minors enroll for 2 cr; all other majors enroll for 3 cr. May be retaken to max of 6 cr.**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 322 African Dance & Diaspora Technique V**

2-3 cr. Undergraduate.

A continuation of Dance 223.

**Prerequisites:** Dance 223(P) or cons instr.**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 323 Body Conditioning: Pilates Method**

2-3 cr. Undergraduate.

Supervised exercises providing special training for strength, balance, and endurance as well as anatomical study.

**Prerequisites:** none.**Course Rules:** May be retaken to max of 6 cr.**Last Taught:** Summer 2023, Spring 2023, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 325 Pointe and Variations**

2 cr. Undergraduate.

The study of pointe technique and Ballet variations.

**Prerequisites:** Dance major or cons instr.**Course Rules:** May be retaken to max of 2 sem.**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 327 Dance for the Musical Theatre I**

2-3 cr. Undergraduate.

Study of the role and use of dance in theatrical productions.

**Prerequisites:** Dance 111(P) and 115(P), or cons instr.**Course Rules:** May be retaken to a max of 3 sem.**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 331 African Percussion Ensemble**

3 cr. Undergraduate.

Hands-on experience in drumming and percussion techniques from Africa and the Diaspora.

**Prerequisites:** Dance or Inter-Arts major or cons instr.**Last Taught:** Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 350 Upper-Level Seminar**

0 cr. Undergraduate.

Discussion of topics for upper-level Dance majors.

**Prerequisites:** Dance 250(C).**Course Rules:** Fee for 1 cr assessed.**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 352 Digital Media Portfolio for Performers**

3 cr. Undergraduate.

Introduction to digital tools for technique and choreographic portfolios.

**Prerequisites:** jr st or cons instr

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 360 Movement and Learning**

3 cr. Undergraduate.

Effect of movement on learning. Learned movement patterns as learning preparation. Centering, focusing, mind-clearing activities. Creative movement activities for creative problem-solving.

**Prerequisites:** none.

**Course Rules:** May be retaken to max of 6 cr.

**General Education Requirements:** A

**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 361 Dance in Elementary Education**

3 cr. Undergraduate.

A study of the relationship of dance experiences to the growth and development of the elementary school child. Discussion, lectures, experimentation and analysis of dance materials. Suitability of materials for various age groups and situations. Teaching of children's dance classes.

**Prerequisites:** Dance or Education major or cons instr.

**Last Taught:** Fall 2014, Fall 2013, Spring 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 362 Dance in Secondary Education and College**

3 cr. Undergraduate.

Methods and philosophy of teaching dance in the secondary school. Theory and practice in solving problems arising in practical teaching situations. Observation of dance classes.

**Prerequisites:** Dance major or cons instr.

**Last Taught:** Fall 2014, Fall 2013, Spring 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 370 World Movement Traditions:**

2-3 cr. Undergraduate.

Dance and movement traditions of world cultures; different cultures each semester.

**Prerequisites:** none.

**Course Rules:** May be retaken to max of 2 sem per topic.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 371 Dance Anatomy & Kinesiology**

3 cr. Undergraduate.

Introduction to functional musculoskeletal anatomy and kinesiology as applied in dance practices. Study human movement, function, expression, and dance injury education through theoretical, somatic, and experiential study.

**Prerequisites:** dance majors, pilates certificate, somatics minor, or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 403 Intermediate Yoga For Dancers**

2-3 cr. Undergraduate/Graduate.

A continuation of Dance 103 stressing the performance and integration of more advanced asanas.

**Prerequisites:** Dance 103, or grad st in Dance component of MFA prog, or cons instr.

**Course Rules:** May be retaken to a max of 2 sem.

**Last Taught:** Fall 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 403G Intermediate Yoga For Dancers**

2-3 cr. Undergraduate/Graduate.

A continuation of Dance 103 stressing the performance and integration of more advanced asanas.

**Prerequisites:** Dance 103, or grad st in Dance component of MFA prog, or cons instr.

**Course Rules:** May be retaken to a max of 2 sem.

**Last Taught:** Fall 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 411 Field Work in Dance**

2 cr. Undergraduate.

Dance education field experiences in schools, agencies and institutions.

**Prerequisites:** Dance majors and Dance 361(P) or 362(P) & cons instr.

**Last Taught:** Fall 2013, Spring 2013, Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 412 Dance Composition I**

3 cr. Undergraduate.

Resources for discovering and inventing movement material, and for developing concepts and structures to give this material perceptual, emotional validity.

**Prerequisites:** Dance major or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 413 Dance Composition II**

3 cr. Undergraduate.

A continuation of Dance 412.

**Prerequisites:** Dance 412(P) or cons instr.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 414 Dance Composition III**

2-3 cr. Undergraduate.

Investigation of advanced choreographic, musical, technical challenges in making site-specific performance work.

**Prerequisites:** Dance 412(P) & 413(P) or cons instr.

**Last Taught:** Spring 2018, Spring 2017, Fall 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 415 Movement and New Media Collaborations**

3 cr. Undergraduate.

Required collaborative new media composition course in the IAT Post-Portfolio Core. Integration of movement and new media.

**Prerequisites:** Dance or Inter-Arts/IAT major or cons instr.

**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 420 Creating Dance in the Community**

3 cr. Undergraduate.

Understanding and mastering artistic and collaborative/interactive skills for use in community and artistic settings.

**Prerequisites:** Dance 219(P) or cons instr.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 421 Alexander Technique Practicum**

2 cr. Undergraduate.

Dance 421 is a continuation of Dance 321 focusing on more in-depth study and application of Alexander Technique for performers.

**Prerequisites:** Dance 321(P) or cons instr.

**Course Rules:** May be retaken to max of 3 sem.

**Last Taught:** Spring 2021, Spring 2017, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 427 Dance for the Musical Theatre II**

2-3 cr. Undergraduate.

Continued advanced study of dance for theatrical productions. Includes analysis of signature dances from Broadway and film musicals.

**Prerequisites:** Dance 327(P) or cons instr.

**Course Rules:** May be retaken to a max of 3 sem.

**Last Taught:** Spring 2022, Spring 2019, Fall 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 441 History of African Dance Theory I**

3 cr. Undergraduate.

Aesthetics and movement sensibilities throughout the African Diaspora.

**Prerequisites:** Dance 313(P) or cons instr.

**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 460 Teaching Dance in Community Settings**

3 cr. Undergraduate.

Prepare dance artists to teach and create dance experiences for people in all ages of the human lifespan, and in a wide range of community settings.

**Prerequisites:** Dance or Education major or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 485 Student Teaching in Dance in Elementary Schools**

1-9 cr. Undergraduate.

Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the dance faculty; weekly seminar at the university.

**Prerequisites:** BFA in Dance or equiv & admis to teaching cert prog in Dance.

**Last Taught:** Fall 2013, Spring 2013, Fall 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 486 Student Teaching in Dance in Secondary Schools**

1-9 cr. Undergraduate.

Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the dance faculty; weekly seminar at the university.

**Prerequisites:** BFA in Dance or equiv & admis to teaching cert in Dance.

**Last Taught:** Fall 2013, Spring 2013, Fall 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 489 Workshop in Dance:**

1-6 cr. Undergraduate.

An opportunity for students to deal independently in diversified creative aspects of dance such as choreo-cinema or environmental dance.

**Prerequisites:** dance major or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2022, Summer 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 490 Repertoire and Ensemble**

0-3 cr. Undergraduate.

Practicum in group performance in dance productions, touring groups and performances related to the department. Includes original works from classical and contemporary repertoire.

**Prerequisites:** Dance major or cons instr.

**Course Rules:** When taken for 0 credit, fee for 1 credit assessed. May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 491 Repertory/Student Choreographer**

0-1 cr. Undergraduate.

Practicum in performing with undergraduate student choreographers on senior projects or composition showings.

**Prerequisites:** Dance major or cons instr.

**Course Rules:** When taken for 0 credit, fee for 1 credit assessed. May be retaken to 4 cr max.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 497 Study Abroad in Dance:**

1-12 cr. Undergraduate/Graduate.

Interdisciplinary and foundational learning in the area of world dance through interactions with and explorations in differing cultures and areas.

**Prerequisites:** jr st or cons instr; & acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic to max of 12 cr.

**Last Taught:** Summer 2019, Summer 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 497G Study Abroad in Dance:**

1-12 cr. Undergraduate/Graduate.

Interdisciplinary and foundational learning in the area of world dance through interactions with and explorations in differing cultures and areas.

**Prerequisites:** jr st or cons instr; & acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic to max of 12 cr.

**Last Taught:** Summer 2019, Summer 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 522 African Dance & Diaspora Technique VI**

2-3 cr. Undergraduate.

A continuation of Dance 322.

**Prerequisites:** Dance 322(P) or cons instr.

**Last Taught:** Spring 2015, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 541 History of African Dance Theory II:**

3 cr. Undergraduate.

Further study in the aesthetics and movement sensibilities throughout the African Diaspora.

**Prerequisites:** Dance 441(P) or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 601 Senior Project**

3 cr. Undergraduate.

Composition of an original work to be presented for performance, or planning and implementation of a major dance project on the campus or in the community.

**Prerequisites:** Dance major, Somatics minor or cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 611 Pilates Method Observation and Practice**

1 cr. Undergraduate.

Students will engage in Pilates Method observation and teaching practice.

**Prerequisites:** Pilates certificate student or consent of instructor.**Course Rules:** Retakeable to 2 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 623 Body Conditioning: Pilates Method II**

2-3 cr. Undergraduate.

Concentrated and advanced study of the Pilates Method incorporating Pilates equipment to enhance skills developed in Dance 323.

**Prerequisites:** Dance 323(P) or cons instr.**Course Rules:** May be retaken to max of 3 sem.**Last Taught:** Fall 2023, Summer 2023, Fall 2021, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 624 Feldenkrais for Performers**

2 cr. Undergraduate.

How the teaching pedagogy and theories of The Feldenkrais Method® is applicable to any movement-focused situation, especially dance.

**Prerequisites:** jr st. or cons instr.**Course Rules:** Counts as repeat of Dance 489 and 889 with same topic.

May be retaken to 6cr max.

**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 685 Seminar in Pilates Student Teaching**

2 cr.

Student teaching practices in Pilates Method.

**Prerequisites:** Pilates certificate student or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 699 Independent Study in Dance**

1-4 cr. Undergraduate.

Individual program of supervised study in Dance under the direction of the instructor.

**Prerequisites:** cons instr.**Course Rules:** May be retaken to max of 12 cr.**Last Taught:** Spring 2022, Spring 2021, Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 701 Dance Composition I**

3 cr. Graduate.

An investigation of resources for discovering and inventing movement material, and for developing concepts and structures to give this material perceptual, emotional validity.

**Prerequisites:** grad st in MFA in Dance; conc reg Dance 733(C).**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 702 Dance Composition II**

3 cr. Graduate.

A continuation of Dance 701.

**Prerequisites:** grad st in MFA in Dance; Dance 701(P), conc reg Dance 734(C).**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 711 Theory and Techniques of Ballet: Intermediate**

2 cr. Graduate.

Technical study of classical ballet.

**Prerequisites:** grad st in MFA in Dance prog & audition.**Course Rules:** May be repeated twice for cr.**Last Taught:** Spring 2020, Spring 2017, Spring 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 712 Theory and Techniques of Ballet: Intermediate**

2 cr. Graduate.

A continuation of Dance 711.

**Prerequisites:** grad st; Dance 711 or audition.**Course Rules:** May be repeated twice for cr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 717 Theory and Techniques of Contemporary Concert Dance: Intermediate**

2-3 cr. Graduate.

An intensive course designed to develop understanding of the major techniques of contemporary concert dance.

**Prerequisites:** graduate standing in the MFA in Dance program and audition.**Course Rules:** May be repeated twice for credit.**Last Taught:** Summer 2023, Fall 2022, Summer 2022, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 718 Theory and Techniques of Contemporary Concert Dance: Intermediate**

2-3 cr. Graduate.

A continuation of DANCE 717.

**Prerequisites:** graduate standing in the MFA in Dance program and DANCE 717(P); or audition.**Course Rules:** May be repeated twice for credit.**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 721 Alexander Technique, Developmental Movement and Dance**

1-3 cr. Graduate.

A hands-on exploration of the application of the Alexander Technique to advanced dance training through developmental movement.

**Prerequisites:** grad st in MFA in Dance prog or cons instr**Last Taught:** Spring 2023, Fall 2018, Summer 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 722 Alexander Technique Practicum**

1-3 cr. Graduate.

Continuation of Dance 721 focusing on a more in-depth study and application of Alexander Technique for advanced dancers.

**Prerequisites:** grad st in MFA in Dance prog & Dance 721**Last Taught:** Summer 2016, Spring 2016, Summer 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DANCE 723 Pilates Technique and Applications**

1-3 cr. Graduate.

Use of Pilates method to understand and articulate essential concepts and theories of movement, and refine dance technique.

**Prerequisites:** graduate standing in Dance, MFA or consent of instructor.**Course Rules:** May be retaken once.**Last Taught:** Fall 2023, Summer 2023, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 724 Feldenkrais for Performers**

3 cr. Graduate.

Application of the pedagogical theories and practical strategies of The Feldenkrais Method® to any movement-focused situation, from dance to music or athletics.

**Prerequisites:** grad st.**Course Rules:** Retakeable to 6 credits max.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 733 Improvisation 1**

3 cr. Graduate.

Techniques and structures for improvisation—the development of processes for evolving movement material from an exploration of the dynamics of inter and intra-relationships, and environment.

**Prerequisites:** admission to MFA in Dance program.**Last Taught:** Summer 2022, Summer 2021, Summer 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 734 Improvisation 2**

3 cr. Graduate.

A continuation of Dance 733.

**Prerequisites:** grad st MFA in Dance; Dance 733(P) & conc reg in Dance 702(C).**Last Taught:** Summer 2022, Fall 2021, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 743 Dynamic Analysis of Movement I**

2 cr. Graduate.

Exploration of personal patterning and discovery of movement sources at the body level. Incorporates material from bartenieff fundamentals, feldenkrais, and sweigard.

**Prerequisites:** grad st in MFA in Dance prog.**Last Taught:** Fall 2016, Spring 2015, Fall 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 744 Dynamic Analysis of Movement II**

2 cr. Graduate.

A continuation of Dance 743. Advanced body level work, application of bartenieff fundamentals to dance technique.

**Prerequisites:** grad st MFA in Dance & Dance 743(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 751 Laban Movement Analysis**

3 cr. Graduate.

Theory and movement practice in effort/shape for use both in performance and in choreography.

**Prerequisites:** grad st in MFA in Dance prog.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 761 Survey of Dance Literature and Bibliography**

3 cr. Graduate.

Lecture, research, and discussion of the major English language dance reference works, and of dance research publications.

**Prerequisites:** grad st in MFA in Dance prog.**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 762 Dance in Secondary Education and College**

3 cr. Graduate.

Methods and philosophy of teaching dance in the secondary school.

Theory and practice in solving problems arising in practical teaching situations. Observation of dance lessons.

**Prerequisites:** grad st & admis to MFA in Dance prog.**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 771 History of Renaissance and Baroque Dance**

3 cr. Graduate.

Lecture, discussion of readings of the periods (in translation). Emphasis also upon performing some of the period dances.

**Prerequisites:** grad st in dance component of mfa prog.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 772 American Concert Dance of the 20th and 21st Century**

3 cr. Graduate.

Graduate seminar in special topics of American concert dance of the twentieth and twentieth first century.

**Prerequisites:** admis to MFA in Dance prog.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 775 Valuing and Evaluation of Dance**

3 cr. Graduate.

Observing and describing dancing and choreography and shaping values.

**Prerequisites:** grad st.**Last Taught:** Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 781 Theories of the Body**

3 cr. Graduate.

Introduction to multiple perspectives and theories on the body and embodied performance to examine how human bodies are framed and deployed for cultural and political purposes and how they circulate or are constrained.

**Prerequisites:** graduate student in MFA in Dance program.**Course Rules:** Counts as a repeat of DANCE 889 with the same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 790 Repertoire and Ensemble**

1-3 cr. Graduate.

Practicum in group performance in dance department productions, touring groups, and performances related to the dance department. Includes original works from classical and contemporary repertoire.

**Prerequisites:** grad st in MFA in Dance program.**Course Rules:** May be repeated to max of 12 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**DANCE 799 Independent Study**

1-3 cr. Graduate.

Individual faculty and student will define the teaching/learning contract for the semester and agree on the credit.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 801 Choreography I**

3 cr. Graduate.

Creating fully mounted works; choreography, performance quality, lighting decor, costumes.

**Prerequisites:** grad st in Dance choreography track of MFA in Dance prog; Dance 701(P) & 702(P) or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 802 Choreography II**

3 cr. Graduate.

Creating fully mounted works of greater length and complexity.

**Prerequisites:** grad st in Dance Choreography track of MFA in Dance prog; Dance 701(P), 702(P), 801(P), or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 831 Sound Design for Dance**

3 cr. Graduate.

This course explores the theoretical, technical, and creative work of sound design as it relates to the contemporary dance artist.

**Prerequisites:** grad st in MFA in Dance.**Last Taught:** Fall 2022, Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 861 Research Methodology for Dance**

3 cr. Graduate.

Lecture, formulation of research proposal, research and write-up of a dance research problem.

**Prerequisites:** grad st & admis to MFA in Dance prog.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 871 Applied Anatomy for Dance**

2-3 cr. Graduate.

Study of human bony and neuromuscular structures in theory and movement. Lec only for 2 cr; lec & lab for 3 cr.

**Prerequisites:** grad st in dance component of MFA prog; Dance 711(P) & 717(P) or cons instr.**Last Taught:** Spring 2017, Spring 2007, Spring 2003, Spring 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 873 Field History: Contemporary Dance Festivals**

2-4 cr. Graduate.

Research, reading, attendance and documentation on selected festivals/series events. Pre-study of choreography/performance style, background, influences, artistic themes. Group discussions and evaluations.

**Prerequisites:** grad st in MFA in Dance prog.**Course Rules:** May be repeated with permission to max of 9 cr.**Last Taught:** Fall 2019, Fall 2018, Summer 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 880 Developing Performance Quality**

1-3 cr. Graduate.

Studies in dynamics of specific choreography.

**Prerequisites:** grad st in MFA in Dance prog; Dance 711 & 717 or cons instr.**Course Rules:** Cr determined prior to regis. May be repeated for up to 6 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 889 Special Workshops:**

1-3 cr. Graduate.

Workshops and graduate seminars presented by guest artists and faculty on specialized topics.

**Prerequisites:** graduate standing in MFA in Dance program or consent of instructor.**Course Rules:** May be retaken to max of 15 cr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DANCE 990 Dance Final Thesis/Project**

2-4 cr. Graduate.

Final demonstration of craft and artistry mastered in program, when completion approved by project committee.

**Prerequisites:** grad st MFA in Dance; cons dept chair.**Course Rules:** May be repeated to max of 8 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Diagnostic Imaging (DMI)

**DMI 101 Introduction to Medical Imaging**

1 cr. Undergraduate.

Introduction to Diagnostic Medical Imaging modalities with a special emphasis on Radiologic Technology and Diagnostic Medical Sonography.

**Prerequisites:** none.**Course Rules:** Counts as repeat of BMS 290 with similar topic.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 300 Diagnostic Medical Imaging Fundamentals**

2 cr. Undergraduate.

Introduction to physics as it relates to Diagnostic Medical Imaging. Students will explore the fundamental principles of physics and its application to Medical Imaging equipment and instrumentation.

**Prerequisites:** Radiography or Diagnostic Medical Sonography intended student or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 306 Imaging Procedures I**

5 cr. Undergraduate.

Radiographic anatomy and procedures related to upper and lower extremities, chest, abdomen, and barium studies. Pediatric imaging is discussed.

**Prerequisites:** jr st; BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 307 Seminar in Radiography I**

3 cr. Undergraduate.

Basic concepts of patient care, including consideration for the cultural, physical and psychological needs of the patient and family.

**Prerequisites:** jr st; BioMed Sci prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 308 Imaging Procedures II**

5 cr. Undergraduate.

Radiographic anatomy and procedures for the bony thorax, vertebral column, and iodinated studies will be covered. Pediatric imaging for each procedure will be discussed.

**Prerequisites:** jr st; BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 309 Imaging Procedures III**

3 cr. Undergraduate.

Radiographic anatomy and procedures for the cranium and facial bones; pediatric imaging for each procedure will be discussed.

**Prerequisites:** none.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 310 Introduction to Sonography**

3 cr. Undergraduate.

Introduction to Diagnostic Medical Sonography with an overview of basic terminology, techniques, and equipment.

**Prerequisites:** jr st; BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 311 Abdominal Sonography-I**

3 cr. Undergraduate.

Anatomy, physiology, pathology, and pathophysiology of the abdominal vessels and organs as they relate to sonography.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 312 Abdominal Sonography-II**

3 cr. Undergraduate.

Anatomy, physiology, pathology, and pathophysiology of the kidneys and abdominal organs as they relate to sonography.

**Prerequisites:** jr st BioMed Sci prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 313 Sonography Clinical Education I**

3 cr. Undergraduate.

Introduction to sonography scanning and development of clinical skills.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 319 Abdominal Sonography III**

3 cr. Undergraduate.

Normal gross, cross-sectional, relational and sonographic anatomy of superficial structures including male pelvis, thyroid, parathyroid glands. Pathologic findings are correlated with causative etiologies utilizing lab values in conjunction with ultrasound protocols.

**Prerequisites:** junior standing in Biomedical Sciences program or consent of instructor.

**Last Taught:** Summer 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 320 Obstetrics/Gynecology Sonography I**

3 cr. Undergraduate.

Normal gross, relational and sonographic anatomy of the female pelvic region. Physiology and related laboratory and clinical findings for disease processes are discussed.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 321 Obstetrics/Gynecology Sonography II**

3 cr. Undergraduate.

Gravid uterus and fetal development. Gestational dating methods, embryology, and maternal and fetal anatomy.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 322 Obstetrics/Gynecology Sonography III**

3 cr. Undergraduate.

Fetal anomalies, disease processes, and pathologies. Various fetal and maternal pathologies explained in sonographic terms.

**Prerequisites:** jr st in Bio Med Sci prog or cons instr.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 323 Sonographic Principles and Instrumentation**

3 cr. Undergraduate.

Characteristics of sound and mechanism of sonographic image production and display. Potential biological effects. Safety and mathematical principles.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 324 Sonography Clinical Education II**

3 cr. Undergraduate.

Clinical practicum rotations including abdominal and OB/GYN imaging, and vascular technology.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 325 Specialized Sonography**

3 cr. Undergraduate.

Embryology, structure, physiology, and pathology of the thyroid, breast, and testicle. Normal and abnormal gross, cross-sectional, and relational sonographic anatomy.

**Prerequisites:** junior standing in Biomedical Sciences program or consent of instructor.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 326 Sonography Clinical Education III**

3 cr. Undergraduate.

Clinical practicum rotations including abdominal and OB/GYN imaging, and vascular technology.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 327 Foundations of Sonography I**

2 cr. Undergraduate.

Initial introduction to diagnostic medical sonography with an overview of basic terminology, techniques, and equipment.

**Prerequisites:** jr st; BioMed Sci prog or cons instr.

**Last Taught:** Summer 2020, Summer 2019, Summer 2017, Summer 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 328 Foundations of Sonography II**

1 cr. Undergraduate.

Introduction to diagnostic medical sonography with an overview of basic techniques and equipment.

**Prerequisites:** DMI 327(P); jr st; BioMed Sci prog or cons instr.

**Last Taught:** Fall 2020, Fall 2019, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 329 Abdominal Sonography IV**

3 cr. Undergraduate.

Anatomy, physiology, pathology and pathophysiology of the adult prostate, penis, and GI tract and the pediatric abdomen and neck as seen on normal and abnormal sonograms.

**Prerequisites:** junior standing in Biomedical Sciences program or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 330 Introduction to Breast Imaging**

3 cr. Undergraduate.

This course focuses on the normal gross, cross-sectional, relational, and sonographic anatomy of the breast and associated structures.

**Prerequisites:** junior standing in Biomedical Sciences program or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 336 Cardiovascular Principles I**

3 cr. Undergraduate.

Introduction to cardiac physiology, mechanical events, left ventricle function indicators, timing of mitral and aortic flow, auscultation, phonocardiography, hemodynamics and Doppler applications of echocardiography.

**Prerequisites:** junior standing in Biomedical Sciences program or consent of instructor.

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 337 Clinical Education I - Echocardiography**

3 cr. Undergraduate.

Clinical practicum rotations including adult echocardiography.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 338 Cardiovascular Physiology**

3 cr. Undergraduate.

This course will discuss cardiac physiology and electrophysiology, auscultation, mechanical and electrical events of the heart, chronotropic and inotropic forces, and components of the cardiac cycle including IVRT, IVCT, systole, preload, and afterload.

**Prerequisites:** junior standing in Biomedical Sciences program or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 340 Embryology of the Cardiovascular System**

2 cr. Undergraduate.

Development and developmental anomalies of the cardiovascular system.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 341 Adult Echocardiography - Valvular Pathology**

3 cr. Undergraduate.

Introduction to cardiac pathology seen on echocardiograms in the adult population.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 342 Clinical Education II - Echocardiography**

3 cr. Undergraduate.

Clinical practicum rotations including adult and pediatric echocardiography.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 345 Pediatric Echocardiography I**

3 cr. Undergraduate.

Introduction to various types of congenital heart disease and pediatric cardiac procedures.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 346 Adult Echocardiography II - Cardiomyopathies**

3 cr. Undergraduate.

Cardiovascular disease and diagnostic cardiac procedures in the adult population.

**Prerequisites:** junior standing in Biomedical Sciences program or consent of instructor.

**Last Taught:** Summer 2023, Summer 2021, Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 347 Clinical Education III - Echocardiography**

3 cr. Undergraduate.

Clinical practicum which includes adult and pediatric echocardiography clinical rotations with focus on advanced adult competencies.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 350 Introduction to Radiologic Science and Healthcare**

2 cr. Undergraduate.

Introduction to Radiologic Technology imaging principles and equipment. Basic concepts of patient care, emergency care, CPR, medical ethics, legal issues, and cultural diversity.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 351 Radiation Protection**

2 cr. Undergraduate.

All aspects of radiation protection including radiation safety, detection, and measurement relevant to Radiologic Technology.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 353 Principles of Imaging I**

3 cr. Undergraduate.

Radiographic qualities and factors influencing those qualities. X-ray tube, beam restricting devices, exposure factors, grids and scatter radiation.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 354 Radiographic Procedures I**

3 cr. Undergraduate.

Introduction to radiographic positioning of the chest, upper extremities, urinary and digestive systems. Pharmacology of contrast media.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 355 Radiography Clinical Education I**

3 cr. Undergraduate.

Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 360 Radiation Biology**

2 cr. Undergraduate.

Effects of radiation from the cellular level to the entire human body. Long and short term somatic effects and genetic effects.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 362 Principles of Imaging II**

3 cr. Undergraduate.

Radiographic qualities and the factors influencing those qualities. Systems and chemicals used in radiographic processing. Film and processor sensitometry.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 363 Radiographic Procedures II**

3 cr. Undergraduate.

Introduction to radiographic positioning for lower extremities, spine, and digestive system. Students learn to identify anatomy on radiographs and evaluate them for acceptability.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 364 Radiography Clinical Education II**

3 cr. Undergraduate.

Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 370 Human Structure & Function III**

1 cr. Undergraduate.

Anatomy and physiology of the human body as they relate to the radiography of the skull, facial bone, and circulatory system.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Summer 2020, Summer 2019, Summer 2018, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 371 Radiographic Procedures III**

2 cr. Undergraduate.

Basic concepts of advanced imaging, special procedures, and supplementary imaging modalities.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Summer 2020, Summer 2019, Summer 2018, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 372 Radiographic Clinical Education III**

4 cr. Undergraduate.

Clinical Education allows students to rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 401 Seminar in Radiography II**

2 cr. Undergraduate.

Evaluation of all aspects of the imaging system from processor to generator.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 402 Introduction to MSK Sonography**

3 cr. Undergraduate.

Study of anatomy (to include anatomic variants), physiology, pathophysiology and the sonographic appearance of the musculoskeletal system as evaluated by diagnostic medical sonography.

**Prerequisites:** junior standing in Biomedical Science program or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 435 Adult Echocardiography - Advanced Pathology**

3 cr. Undergraduate.

Cardiovascular pharmacology and the potential effects of cardiac medications on echocardiographic images.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 436 Pediatric Echocardiography II**

3 cr. Undergraduate.

Advanced instruction in various types of congenital heart disease and pediatric echocardiography.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 437 Stress Echocardiography**

3 cr. Undergraduate.

Indications, utility, limitations and technical procedures related to exercise stress echocardiography.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 438 Clinical Education IV - Echocardiography**

3 cr. Undergraduate.

Clinical practicum rotations including advanced adult and pediatric imaging of the heart with focus on advanced pediatric competencies.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 439 Clinical Education V - Echocardiography**

3 cr. Undergraduate.

Clinical practicum rotations including exercise and pharmacological stress, echocardiograms and transesophageal echocardiograms.

**Prerequisites:** junior standing in Biomedical Sciences program or consent of instructor.

**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 440 Clinical Education VI - Echocardiography**

3 cr. Undergraduate.

Clinical practicum including advanced imaging in echocardiography techniques.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Summer 2021, Summer 2020, Summer 2019, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 441 Special Procedures in Echocardiography**

3 cr. Undergraduate.

Indications, utility, limitations and technical procedures related to transesophageal echocardiography.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 450 Vascular Sonography I**

3 cr. Undergraduate.

Anatomy, physiology, pathology, and pathophysiology of the peripheral vascular subset of the cardiovascular system as it relates to sonography.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 451 Vascular Sonography II**

3 cr. Undergraduate.

Anatomy, physiology, pathology, and pathophysiology of the cerebrovascular subset of the cardiovascular system as it relates to sonography.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 452 Sonography Clinical Education IV**

3 cr. Undergraduate.

Clinical practicum including abdominal and OB/GYN imaging, and vascular technology.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 453 Seminar in OB/GYN Sonography**

3 cr. Undergraduate.

The role of ultrasound in assisting with treatment as it relates to women's reproductive health and prenatal care.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 454 Embryology of the Heart**

3 cr. Undergraduate.

Echocardiographic examination of the fetal heart including normal anatomy and congenital heart disease.

**Prerequisites:** junior standing in Biomedical Science program or consent of instructor.

**Last Taught:** Spring 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 455 Vascular Sonography III**

3 cr. Undergraduate.

Doppler principles, spectral display, hemodynamics of abdominal, transplant organ, and penile vascular techniques; vascular statistics.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 457 Sonography Clinical Education V**

3-4 cr. Undergraduate.

Clinical practicum including abdominal and OB/GYN imaging, and vascular technology.

**Prerequisites:** senior standing in Biomedical Science program or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 458 Seminar in Advanced Medical Imaging**

3 cr. Undergraduate.

Comparison of normal and pathological anatomy cases combining diagnostic medical sonography, computed sonography and magnetic resonance imaging.

**Prerequisites:** junior standing in BioMedical Science program or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 458X Seminar in Advanced Medical Imaging**

3 cr. Undergraduate.

Comparison of normal and pathological anatomy cases combining diagnostic medical sonography, computed sonography and magnetic resonance imaging.

**Prerequisites:** junior standing in BioMedical Science program or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 460 Professional Development in Sonography - Seminar**

3 cr. Undergraduate.

Current trends in health care and sonography. Federal regulations, Medicare, managed care, professional organizations, and certification exam preparation.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Summer 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 461 Sonography Clinical Education VI**

3 cr. Undergraduate.

Clinical practicum including abdominal and OB/GYN imaging, and vascular technology.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.

**Last Taught:** Summer 2021, Summer 2020, Summer 2019, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 463 Seminar in Education and Management in Medical Imaging**

3 cr. Undergraduate.

Problem solving of management issues relating to diagnostic medical sonography and exploring educational strategies employed in ultrasound education.

**Prerequisites:** junior standing in BioMedical Science program or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 463X Seminar in Education and Management in Medical Imaging**

3 cr. Undergraduate.

Problem solving of management issues relating to diagnostic medical sonography and exploring educational strategies employed in ultrasound education.

**Prerequisites:** junior standing in BioMedical Science program or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 464 Introduction to Pediatric Sonography/Neurosonography**

3 cr. Undergraduate.

Anatomy, physiology, pathology, pathophysiology and the sonographic appearance of the normal and abnormal fetal and neonatal brain.

**Prerequisites:** junior standing in Biomedical Sciences program or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 470 Radiographic Physics**

2 cr. Undergraduate.

Atomic and subatomic theories, electrical theory, interaction of x-rays with matter, production of radiation, equipment maintenance, x-ray circuits, tubes, and cooling charts.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 471 Digital Imaging**

3 cr. Undergraduate.

Radiographic qualities and factors influencing those qualities. Principles of fluoroscopy, AEC, tomography, and other accessory equipment.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 473 Imaging Procedures IV**

2 cr. Undergraduate.

Skull positioning advanced skills, special procedures, and supplementary imaging modalities.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 474 Radiography Clinical Education IV**

3 cr. Undergraduate.

Students to rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 475 Seminar in Radiography III**

2 cr. Undergraduate.

Current concepts in radiologic technology.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DMI 477 Cross Sectional Anatomy**

3 cr. Undergraduate.

Structure and physiology of the human body as it appears in cross section. Diagrams, CT, and MRI images are utilized.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 478 Radiologic Pathology**

3 cr. Undergraduate.

Changes that occur in disease and injury and their applications to radiography.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 479 Radiography Clinical Education V**

3 cr. Undergraduate.

Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 480 Seminar in Radiography IV**

2 cr. Undergraduate.

Current concepts in radiologic technology.

**Prerequisites:** sr st in BioMed Sci prog or consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 482 Radiography Clinical Internship I**

6 cr. Undergraduate.

600 hours of clinical experience. The student will begin surgical and evening rotations.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 483 Radiography Clinical Internship II**

3 cr. Undergraduate.

Rotations through the Emergency Department, diagnostic area outpatient and orthopedic clinics, CT, MRI, and interventional radiology.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 484 Radiography Clinical Internship IV**

1 cr. Undergraduate.

70 hours of clinical practice. Opportunity to rotate through any area of interest in a variety of imaging modalities.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 485 Professional Development in Radiography**

2 cr. Undergraduate.

Federal regulations and legislation as they relate to the health care profession and radiology. Preparation for the certification exam.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 486 Radiography Clinical Education VI**

4 cr. Undergraduate.

Students rotate through all aspects of the radiologic science field. A total of 65 competencies must be achieved in two years of clinical education.

**Prerequisites:** sr st in BioMed Sci prog or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 489 Radiography Clinical Internship III**

4 cr. Undergraduate.

400 hours of clinical practice. Opportunity to rotate through any area of interest in a variety of imaging modalities.

**Prerequisites:** jr st in BioMed Sci prog or cons instr.**Course Rules:** Counts as repeat of BMS 590 with similar topic.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 496 Professional Growth and Career Advancement in Diagnostic Imaging Professions**

3 cr. Undergraduate.

Exploration and discussion of volunteerism and leadership in professional associations, professional advocacy, emerging trends in certification, re-certification and career pathways related to career advancement.

**Prerequisites:** admis to BMS major; or cons instr.**Course Rules:** Counts as repeat of BMS 590 w/ same topic.**Last Taught:** Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 496X Professional Growth and Career Advancement in Diagnostic Imaging Professions**

3 cr. Undergraduate.

Exploration and discussion of volunteerism and leadership in professional associations, professional advocacy, emerging trends in certification, re-certification and career pathways related to career advancement.

**Prerequisites:** admis to BMS major; or cons instr.**Course Rules:** Counts as repeat of BMS 590 w/ same topic.**Last Taught:** Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DMI 599 Independent Study**

1-3 cr. Undergraduate.

Individualized experience which enables the student to study current topics of interest in Diagnostic Medical Imaging. Level of credit assigned based on time required for completion.

**Prerequisites:** consent of Program Director.**Course Rules:** May be retaken to 15 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Digital Arts and Culture (DAC)

**DAC 113 Internet Culture**

3 cr. Undergraduate.

Social, cultural, and historical dimensions of the Internet.

**Prerequisites:** none.**Course Rules:** DAC 113 and JAMS 113 are jointly offered and count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DAC 140 Games and Society**

3 cr. Undergraduate.

Cultural and social contexts of play and games; institutions, technology, and games. 2 hrs lec, 1 hr dis.

**Prerequisites:** none.**Course Rules:** ANTHRO 140 and DAC 140 are jointly offered count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 199 Independent Study**

1-3 cr. Undergraduate.

Independent work supervised by Digital Arts and Culture faculty or staff member. Written course proposal required prior to reg. For additional information, consult prog coord.

**Prerequisites:** 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.**Course Rules:** Retakable with change in topic to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 289 Internship in Digital Arts and Culture, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Digital Arts and Culture in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** 2.5 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 296 UROP Apprenticeship, Lower Division**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 336 Media Graphics**

3 cr. Undergraduate.

Production and analysis of mass media graphics, photographs, and illustrations.

**Prerequisites:** junior standing; JAMS major/minor or Digital Arts and Culture (DAC) status; grade of C or better in ART 118(P) or JAMS 113(P).**Course Rules:** DAC 336 and JAMS 336 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 408 Nonprofit Information Technology**

3 cr. Undergraduate.

Provides experiential project-based learning opportunities to UWM students while working on a technology project for a local nonprofit organization.

**Prerequisites:** none.**Course Rules:** ART 408, DAC 408, and INFOST 408 are jointly offered and count as repeats of one another. Repeatable to 9 cr max.**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 489 Internship in Digital Arts and Culture, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of Digital Arts and Culture in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.5 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 496 UROP Apprenticeship, Upper Division**

1-3 cr. Undergraduate.

Advanced-level undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** jr st; acceptance to UROP; prior or conc reg in UROP seminar.**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 661 Digital Engagement Seminar**

3 cr. Undergraduate/Graduate.

Production of a digital portfolio demonstrating achievement of DAC program learning goals.

**Prerequisites:** declared DAC major; completion of 12 cr approved DAC courses.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**DAC 661G Digital Engagement Seminar**

3 cr. Undergraduate/Graduate.

Production of a digital portfolio demonstrating achievement of DAC program learning goals.

**Prerequisites:** declared DAC major; completion of 12 cr approved DAC courses.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**DAC 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Independent work supervised by Digital Arts and Culture faculty or staff member. Write course proposal req'd prior to reg. For additional information, consult prog coord.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.

**Course Rules:** Repeatable with change in topic to 9 cr max.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DAC 700 Core Seminar in Digital Cultures**

3 cr. Graduate.

Concepts, tools, and methods for critically examining digital cultural products and digitally-mediated social action, combining perspectives from the humanities and the humanistic social sciences.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DAC 701 Digital Cultures Colloquium**

1 cr. Graduate.

Engagement with readings, topics, and speakers in conjunction with the Center for 21st Century Studies, Digital Humanities Lab, or related programming. Students will attend events, participate in course discussions, and complete critical papers.

**Prerequisites:** graduate standing.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DAC 788 Digital Cultures Practicum**

1 cr. Graduate.

Practical experience with the production of digital culture within various topics. Examples include digital production and streaming of artistic and community-engaged media (including digital games and other media forms) and the production of digital archives.

**Prerequisites:** graduate standing.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**DAC 840 Digital Anthropology: Code, Architecture, Process**

3 cr. Graduate.

Introduces students from anthropology and related fields to anthropological approaches to digitally-mediated social action.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as a repeat of ANTHRO 940 with topic 'Anthropology and the Digital.' ANTHRO 840 and DAC 840 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Economics (ECON)

**ECON 100 Introductory Economics**

3 cr. Undergraduate.

A one semester survey of current national and international economic problems. Useful as preparation for Econ 103 and 104. Not required of economics majors.

**Prerequisites:** none.

**Course Rules:** Not open for cr to students who have cr in Econ 103 & 104.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 103 Principles of Microeconomics**

3 cr. Undergraduate.

Economic reasoning; price determination, specialization, and efficiency. Applications include international trade, antitrust, environmental protection, highway congestion.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 104 Principles of Macroeconomics**

3 cr. Undergraduate.

Composition of national income, interrelationship of sectors; determination of national income and productivity; relationship between national income, inflation, money, interest rates; U.S. global economies interaction.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 110 Economics of Personal Finance**

1 cr. Undergraduate.

Economics of personal financial management; development of successful financial skills; activity-based course with assignments emphasizing students' individual situations.

**Prerequisites:** none.

**Course Rules:** No cr for students who have cr in Econ 258 w/same topic.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 193 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2018, Fall 2016, Spring 2008, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 210 Economic Statistics**

3 cr. Undergraduate.

Basic probability and statistics; numerical and graphical methods of describing data, elementary probability, random variables and probability distributions, hypothesis testing, simple linear regression.

**Prerequisites:** Math 105(P), or Math 108(P), or Math Placement Level 30 or higher.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 231 Analysis of American Industries**

3 cr. Undergraduate.

Performance of key U.S. industries (e.g. education, beer, cars, medicinal drugs, radio, television, sports, steel, food, music recording); their responses to changing national/international economic conditions.

**Prerequisites:** soph st; Econ 103(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 248 Economics of Discrimination**

3 cr. Undergraduate.

Use of economic theory to examine the history, current status, and policies regarding various minority groups in the United States.

Applications include education, housing, jobs.

**Prerequisites:** none.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 258 Selected Topics in Economics:**

1-3 cr. Undergraduate.

Focus on special topics not normally discussed in detail in other existing courses.

**Prerequisites:** sophomore standing; consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2023, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 289 Internship in Economics, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of economics in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** 100-level course in Econ; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr granted for academic work based on 40 hrs in the internship. May be retaken to 6 cr max.

**Last Taught:** Summer 2004, Spring 2004, Summer 2002, Spring 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 301 Intermediate Microeconomics**

3 cr. Undergraduate.

Contemporary theory of consumption, production, pricing, resource allocation, and distribution.

**Prerequisites:** Econ 103(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 302 Intermediate Macroeconomics**

3 cr. Undergraduate.

Analysis of savings, production, investment and other aggregates in the national and international economy as related to the determination of national income, inflation, and unemployment.

**Prerequisites:** Econ 104(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 310 Research Methods for Economics**

3 cr. Undergraduate/Graduate.

Statistical research methods, especially cross-sectional and panel-data regression and hypothesis testing, applied to the evaluation of empirical data and a directed research project using programming languages (STATA, R, Python, Matlab, etc.)

**Prerequisites:** junior standing; ECON 210(P) or consent of instructor.

**Course Rules:** Not open for cr to students who have cr in ECON 513(531).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 310G Research Methods for Economics**

3 cr. Undergraduate/Graduate.

Statistical research methods, especially cross-sectional and panel-data regression and hypothesis testing, applied to the evaluation of empirical data and a directed research project using programming languages (STATA, R, Python, Matlab, etc.)

**Prerequisites:** junior standing; ECON 210(P) or consent of instructor.

**Course Rules:** Not open for cr to students who have cr in ECON 513(531).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 325 Money and Banking**

3 cr. Undergraduate.

Stocks, bonds, derivatives, foreign exchange. Analysis of commercial banks, investment banks, brokerages, etc. Domestic and international monetary theory and policy. Risk insurances, regulations, deregulation..

**Prerequisites:** Econ 104(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 328 Environmental Economics**

3 cr. Undergraduate.

Evaluating public policy of environmental and natural resources. Regulation of pollution, endangered species, natural resources, and other case studies.

**Prerequisites:** Econ 103(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 335 Economics of Antitrust Laws**

3 cr. Undergraduate.

Examination of laws intended to increase competition; their evolution through landmark cases involving price fixing, mergers toward monopoly, and unfair competition including IBM, AT&T, Microsoft.

**Prerequisites:** Econ 103(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 351 Introduction to International Economic Relations**

3 cr. Undergraduate.

International economics and finance, determinants and structure of international trade, commercial policy, foreign exchange markets, and balance of payments.

**Prerequisites:** Econ 100(P); or both 103(P) & 104(P).

**Course Rules:** Not open for cr to students who have cr in both Econ 454 & 455.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 353 Economic Development**

3 cr. Undergraduate.

Examination of determinants of growth, modernization, poverty, and inequality in developing countries of Africa, Asia, and Latin America. Analysis of development strategies.

**Prerequisites:** Econ 103(P) & 104(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 381 Honors Seminar.**

3 cr. Undergraduate.

Examination of current economic issues such as energy, environment, poverty, and human resource development.

**Prerequisites:** sophomore standing; HONORS 200(P); consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** SS

**Last Taught:** Fall 2016, Spring 2015, Spring 2006, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 404 Economic Applications of Game Theory**

3 cr. Undergraduate.

Strategic interaction among decision makers. Studies multi-party decision problems of a firm, a government, or a country.

**Prerequisites:** jr st; Econ 301(R) or cons instr.

**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 411 Economic Forecasting Methods**

3 cr. Undergraduate/Graduate.

Economic time series, analysis, forecasts. Trends, seasonality, cycles. Univariate and multivariate time series models. Application of machine learning models to macro and financial data. Extensive use of econometric and statistical software.

**Prerequisites:** junior standing, ECON 210(P), and ECON 310(P); or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 411G Economic Forecasting Methods**

3 cr. Undergraduate/Graduate.

Economic time series, analysis, forecasts. Trends, seasonality, cycles. Univariate and multivariate time series models. Application of machine learning models to macro and financial data. Extensive use of econometric and statistical software.

**Prerequisites:** junior standing, ECON 210(P), and ECON 310(P); or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 413 Statistics for Economists**

3 cr. Undergraduate/Graduate.

Elements of probability; joint marginal and conditional distributions; measures of central tendency and dispersion, calculus of expectations; central limit theorem. Estimation and testing of economic relations.

**Prerequisites:** jr st; Econ 210(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).

**Last Taught:** Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 413G Statistics for Economists**

3 cr. Undergraduate/Graduate.

Elements of probability; joint marginal and conditional distributions; measures of central tendency and dispersion, calculus of expectations; central limit theorem. Estimation and testing of economic relations.

**Prerequisites:** jr st; Econ 210(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).

**Last Taught:** Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 415 Economics of Employment and Labor Relations**

3 cr. Undergraduate/Graduate.

Analysis of wage setting, labor markets, human capital and collective bargaining. Study of labor standards, regulation and the role of unions and government.

**Prerequisites:** jr st; Econ 103(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 415G Economics of Employment and Labor Relations**

3 cr. Undergraduate/Graduate.

Analysis of wage setting, labor markets, human capital and collective bargaining. Study of labor standards, regulation and the role of unions and government.

**Prerequisites:** jr st; Econ 103(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 426 Public Economics**

3 cr. Undergraduate/Graduate.

Economic analysis of government and policy, including taxation and expenditures, policy responses to market failures, redistributive programs, and related topics.

**Prerequisites:** jr st; Econ 104(P) & 301(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 426G Public Economics**

3 cr. Undergraduate/Graduate.

Economic analysis of government and policy, including taxation and expenditures, policy responses to market failures, redistributive programs, and related topics.

**Prerequisites:** jr st; Econ 104(P) & 301(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 432 Industrial Organization**

3 cr. Undergraduate/Graduate.

Economic analysis of asymmetric information, barriers to competitive entry, licensing, pricing practices/transactions costs; application to markets for insurance, computers, health care, used cars, food.

**Prerequisites:** jr st; Econ 301(P).**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 432G Industrial Organization**

3 cr. Undergraduate/Graduate.

Economic analysis of asymmetric information, barriers to competitive entry, licensing, pricing practices/transactions costs; application to markets for insurance, computers, health care, used cars, food.

**Prerequisites:** jr st; Econ 301(P).**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 447 Labor Economics**

3 cr. Undergraduate/Graduate.

The economics of unions, minimum wage, poverty and welfare programs; influence of international trade on domestic labor markets. Study of labor supply and labor demand.

**Prerequisites:** jr st; Econ 301(P).**Last Taught:** Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 447G Labor Economics**

3 cr. Undergraduate/Graduate.

The economics of unions, minimum wage, poverty and welfare programs; influence of international trade on domestic labor markets. Study of labor supply and labor demand.

**Prerequisites:** jr st; Econ 301(P).**Last Taught:** Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 448 Economics of Human Resources**

3 cr. Undergraduate/Graduate.

The economics of education, training, discrimination, and workplace incentives. Study of hiring, promotion, and job search.

**Prerequisites:** jr st; Econ 103(P) or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 448G Economics of Human Resources**

3 cr. Undergraduate/Graduate.

The economics of education, training, discrimination, and workplace incentives. Study of hiring, promotion, and job search.

**Prerequisites:** jr st; Econ 103(P) or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 450 Health Economics**

3 cr. Undergraduate/Graduate.

Efficiency of medical care, health insurance and access to care, alternative models of health care delivery, health behaviors and public policy.

**Prerequisites:** jr st; Econ 103(P).**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 450G Health Economics**

3 cr. Undergraduate/Graduate.

Efficiency of medical care, health insurance and access to care, alternative models of health care delivery, health behaviors and public policy.

**Prerequisites:** jr st; Econ 103(P).**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 454 International Trade**

3 cr. Undergraduate/Graduate.

Why countries trade; who wins, who loses; facts about world trade; political economy of trade. Balance of payments, Asian crisis, European Union, American wage dispersion.

**Prerequisites:** jr st; Econ 301(P).**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 454G International Trade**

3 cr. Undergraduate/Graduate.

Why countries trade; who wins, who loses; facts about world trade; political economy of trade. Balance of payments, Asian crisis, European Union, American wage dispersion.

**Prerequisites:** jr st; Econ 301(P).**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 455 International Finance**

3 cr. Undergraduate/Graduate.

International monetary system; spot and foreign exchange markets; balance of payments; international adjustment mechanisms; international finance policy; history and institution.

**Prerequisites:** jr st; Econ 302(P).**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 455G International Finance**

3 cr. Undergraduate/Graduate.

International monetary system; spot and foreign exchange markets; balance of payments; international adjustment mechanisms; international finance policy; history and institution.

**Prerequisites:** jr st; Econ 302(P).**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 458 Selected Topics in Economics:**

3 cr. Undergraduate/Graduate.

Variable content course designed to focus on special topics not normally discussed in detail in other existing courses.

**Prerequisites:** jr st & cons instr.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 458G Selected Topics in Economics:**

3 cr. Undergraduate/Graduate.

Variable content course designed to focus on special topics not normally discussed in detail in other existing courses.

**Prerequisites:** jr st & cons instr.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 489 Internship in Economics, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of economics in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Econ; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr granted for academic work based on 40 hrs in the Internship. May be retaken to 6 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2023, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2023, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2002, Fall 1993.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 506 Mathematical Economics I**

3 cr. Undergraduate/Graduate.

Mathematical techniques used in economic analysis, including calculus and matrix algebra. Applications include optimizing behavior of firms and consumers.

**Prerequisites:** jr st; Econ 301(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 506G Mathematical Economics I**

3 cr. Undergraduate/Graduate.

Mathematical techniques used in economic analysis, including calculus and matrix algebra. Applications include optimizing behavior of firms and consumers.

**Prerequisites:** jr st; Econ 301(P); Math 211(P) & cons instr, or Math 231(P). Math 232(R) & 233(R).**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 513 Introduction to Econometrics**

3 cr. Undergraduate/Graduate.

Multiple regression, generalized least squares, specification analysis, multicollinearity, multiple equations including simultaneous equations.

**Prerequisites:** jr st; Econ 413(P).**Last Taught:** Spring 2017, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 513G Introduction to Econometrics**

3 cr. Undergraduate/Graduate.

Multiple regression, generalized least squares, specification analysis, multicollinearity, multiple equations including simultaneous equations.

**Prerequisites:** jr st; Econ 413(P).**Last Taught:** Spring 2017, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 525 The Economics of Water**

3 cr. Undergraduate/Graduate.

Comprehensive development of water resource economics for engineers, scientists, and economists; analysis of the public and private sector economics of water resources.

**Prerequisites:** jr st; Econ 103(P); Math 231(P); a statistics course; or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 525G The Economics of Water**

3 cr. Undergraduate/Graduate.

Comprehensive development of water resource economics for engineers, scientists, and economists; analysis of the public and private sector economics of water resources.

**Prerequisites:** jr st; Econ 103(P); Math 231(P); a statistics course; or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 606 Mathematical Economics II**

3 cr. Undergraduate/Graduate.

Difference and differential equations applied to economic variables such as human capital, consumption, learning, energy use, and pollution.

Essential preparation for graduate work.

**Prerequisites:** jr st; Econ 506(P).**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 606G Mathematical Economics II**

3 cr. Undergraduate/Graduate.

Difference and differential equations applied to economic variables such as human capital, consumption, learning, energy use, and pollution.

Essential preparation for graduate work.

**Prerequisites:** jr st; Econ 506(P).**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 699 Independent Work**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of an ECON faculty or instructional academic staff member.

**Prerequisites:** jr st, 2.0 GPA; consent of instructor, Department Chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2022, Summer 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 701 Economic Theory: Microeconomics**

4 cr. Graduate.

Conventional theory of the behavior of firms, consumers, and markets; partial and general equilibria.

**Prerequisites:** grad st; Econ 301(P). Econ 506(R).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 702 Economic Theory: Macroeconomics**

4 cr. Graduate.

Aggregative economic analysis, problems of aggregation and significant aggregates; national income, flow-of-funds, and input-output.

**Prerequisites:** grad st; Econ 302(P). Econ 506(R).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 703 Econometrics**

4 cr. Graduate.

Regression theory, generalized least squares, heteroscedasticity, autocorrelation, multi-colinearity, distributed lags, and discrete variable models, system of equations.

**Prerequisites:** grad st**Course Rules:** No cr for students who have grad cr in Econ 513.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 706 Mathematical Economics**

3 cr. Graduate.

Mathematical analysis of modern economic problems; dynamic input-output system, stability analysis, general equilibrium analysis, optimizing theory including linear and non-linear programming, activity analysis and turnpike theory, and mathematical growth models.

**Prerequisites:** grad st; Econ 506(P) & 606(P).**Last Taught:** Fall 2007, Fall 2005, Fall 2004, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 708 Industrial Organization I**

3 cr. Graduate.

Exploration of the relationship between industrial structure and market performance. Topics covered include r&amp;d, advertising and government regulations. Prereq: grad st; Econ 301(P), 302(P) &amp; 506(P), or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 709 Industrial Organization II**

3 cr. Graduate.

Evaluation of the economic impact of the anti-trust laws. Topics covered include horizontal restraint, vertical restraint, patent, and mergers.

**Prerequisites:** grad st; Econ 301(P), 302(P), & 413(P).**Last Taught:** Spring 2019, Spring 2018, Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 710 Applied Econometrics**

3 cr. Graduate.

Application of econometrics and data science to economics and finance. Study big data and machine learning models in economics. Extensive use of statistical software including R and Python.

**Prerequisites:** graduate standing; ECON 703(P).**Last Taught:** Fall 2023, Fall 2022, Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 712 Urban Economic Theory**

3 cr. Graduate.

Trends in U.S. urbanization and suburbanization. Studies of urban household and firm behavior. General equilibrium analytical and simulation models of urban structure.

**Prerequisites:** grad st; Econ 301(P).**Last Taught:** Fall 2008, Spring 1996, Spring 1992, Spring 1990.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 713 Regional Economic Theory**

3 cr. Graduate.

Location theory and land-use patterns, regional social accounts and input-output models, shift-share analysis, regional econometric model, and growth policies.

**Prerequisites:** grad st; Econ 301(P) or cons instr; Econ 413(431)(R).**Last Taught:** Spring 2009, Fall 1995, Fall 1992, Fall 1991.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 731 Money, Income, and Prices**

3 cr. Graduate.

Analysis of the demand for money by monetary theorists. Integration of theories into general equilibrium macro-models.

**Prerequisites:** grad st; Econ 302(P). Econ 702(R).**Last Taught:** Fall 2018, Fall 2016, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 734 Foundation of Econometric Methods**

3 cr. Graduate.

Statistical and econometric methods for econometrics research. Asymptotic theory; maximum likelihood, instrumental variables, generalized method of moments estimation; linear regression model; resampling methods; machine-learning-based methods (model selection, tree-based models, deep neural network).

**Prerequisites:** graduate standing, ECON 413(P) and ECON 506(P) or consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 735 Econometric Methods I**

3 cr. Graduate.

Review asymptotic distribution theory, linear models and linear estimators, and their extensions. Estimation and testing of econometric models; topics including estimators for panel data models, difference-in-differences, regression discontinuity, limited dependent variable models, machine learning estimators.

**Prerequisites:** graduate standing and ECON 734(P) or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 749 Urban Public Finance**

3 cr. Graduate.

Analysis of state and local government expenditures and revenues; demand for urban services, costs of supplying them, and methods of financing them.

**Prerequisites:** grad st; Econ 301(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 751 Labor Economics I**

3 cr. Graduate.

Human capital investments: determinants of earnings (education, experience, incentives, discrimination, unions, compensating differentials); public sector labor markets; issues of retirement and aging.

**Prerequisites:** grad st; Econ 701(C).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 752 Labor Economics II**

3 cr. Graduate.

Income distribution and inequality; migration and immigration; fertility, family structure, human capital and labor supply; unemployment and job search; selection bias; specialization and work organization.

**Prerequisites:** grad st; Econ 701(C).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 753 Collective Bargaining**

3 cr. Graduate.

Economic and behavioral theories of collective bargaining, bargaining structure, impasses and truces, union effects, management goals, terms of the agreement and national policy.

**Prerequisites:** grad st; Ind Rel 701(R).

**Course Rules:** May not be substituted for Econ 751 or 752 in meeting the concentration req of the Econ MA Non-thesis option or in preparing for Ph D prelims.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 755 Comparative Labor Markets and Employment Relations**

3 cr. Graduate.

Labor market institutions, practices and performance. The U.S. is compared with western europe, japan and elsewhere.

**Prerequisites:** grad st; Econ 210(P) & 415(451)(P) or cons instr.

**Course Rules:** May not substitute for Econ 751 or 752.

**Last Taught:** Spring 2014, Spring 2010, Spring 2008, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 774 Economic Development - Theory**

3 cr. Graduate.

Theories relating to production, distribution, and capital formation in less-developed nations.

**Prerequisites:** grad st; Econ 301(P) & 302(P).

**Last Taught:** Fall 2023, Spring 2022, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 775 Economic Development - Policy**

3 cr. Graduate.

Graduate seminar course for MA and PhD students in applied economic growth, innovation, global warming, inequality, and development.

**Prerequisites:** graduate standing; ECON 301(P) and ECON 302(P).

**Last Taught:** Fall 2022, Fall 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 790 Research Seminar for M.A. Students**

3 cr. Graduate.

Basic research methods and guidance in developing a research proposal and writing a formal research paper.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 801 Advanced Microeconomic Theory I**

3 cr. Graduate.

Decision-making under risk and over time, general equilibrium and welfare, market failure, and applications, including demand systems, household production, interpersonal economics, and hedonic pricing.

**Prerequisites:** grad st; Econ 701(P) & 506(P). Econ 606(R).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 802 Advanced Macroeconomic Theory I**

3 cr. Graduate.

Money, credit, and governmental operations in aggregative analysis; critical study of some aggregative and analytical systems.

**Prerequisites:** grad st; Econ 702(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 803 Advanced Microeconomic Theory II**

3 cr. Graduate.

Theory of the firm, imperfect competition, game theory, asymmetric information, transaction costs and applications including matching/search, factor markets, contract theory, mechanism design and specialization.

**Prerequisites:** grad st; Econ 506 (P) & 701(P); Econ 606 (R).

**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 804 Advanced Macroeconomic Theory II**

3 cr. Graduate.

Foundations of macroeconomics with a focus on global challenges, including innovation, unemployment, global warming, and the balance between markets and government regulations.

**Prerequisites:** graduate standing and ECON 802(P).

**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ECON 806 Mathematical Economics**

3 cr. Graduate.

Applications of dynamic optimization technique to modern economic problems; optimal economic growth, optimal pricing, optimal stabilization policies, etc.

**Prerequisites:** Econ 706(P).**Last Taught:** Fall 2006, Spring 2006, Spring 2005, Spring 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 831 Monetary Theory and Policy**

3 cr. Graduate.

Study of money, credit, and liquidity as related to income, employment, and prices. Study of goals and effectiveness of monetary and banking policy.

**Prerequisites:** grad st; Econ 701(P). Econ 702(C) or cons instr.**Last Taught:** Spring 2019, Spring 2015, Spring 2014, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 835 Econometric Methods II**

3 cr. Graduate.

Time series econometrics and data analytics for macroeconomics and finance. ARMA, VAR, Forecasting, Cointegration, State Space Models, Machine Learning Models.

**Prerequisites:** graduate standing and ECON 735(P).**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 871 The Pure Theory of International Trade**

3 cr. Graduate.

Examines for both static and growing economies the impact of trade upon relative prices of goods and factors of production.

**Prerequisites:** grad st; Econ 701(P).**Last Taught:** Fall 2020, Fall 2017, Fall 2016, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 872 Money in the International Economy**

3 cr. Graduate.

Examines the theory and measurement of the balance of payments, appropriate policies for internal and external balance, the problems of making international payments and the issue of exchange rate flexibility.

**Prerequisites:** Econ 702(P) & 455(576)(P).**Last Taught:** Spring 2021, Spring 2020, Spring 2018, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Spring 2022, Summer 2021, Spring 2017, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 905 Seminar: Banking and Monetary Theory.**

3 cr. Graduate.

Consideration of the relationship between monetary policy and short-run fluctuations and long-run economic trends.

**Prerequisites:** grad st; Econ 831(P) or cons instr.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Fall 2020, Fall 2017, Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 915 Seminar: Econometric Methods:**

3 cr. Graduate.

Selected advanced topics in econometric methods and their application to current economic problems.

**Prerequisites:** grad st; Econ 835(P).**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Fall 2020, Fall 2012, Fall 2011, Spring 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 931 Seminar: Regulated Industries:**

3 cr. Graduate.

Research in the field of public utilities and other regulated industries, with emphasis on changing the emerging transportation problems.

**Prerequisites:** grad st; Econ 701(P).**Course Rules:** Retakable w/chg in topic to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 947 Seminar: Public Finance:**

3 cr. Graduate.

Advanced study of public finance problems and literature. Research.

**Prerequisites:** grad st; Econ 701(P) & 702(P).**Course Rules:** Retakable w/chg in topic to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 974 Seminar: Economic Development and Growth:**

3 cr. Graduate.

Analysis of advanced topics relating to the process of economic development and theory of growth.

**Prerequisites:** grad st; Econ 774(P) & 775(P).**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2007, Spring 2006, Fall 2005, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 990 Graduate Thesis**

1-3 cr. Graduate.

Reserved for research in connection with doctoral thesis.

**Prerequisites:** grad st; cons major prof.**Course Rules:** Retakable as necessary to fulfill thesis requirements.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 991 Workshop in Economic Research:**

2-3 cr. Graduate.

Individual research and group discussion of selected problems in economic theory and its applications.

**Prerequisites:** grad st & cons instr.**Course Rules:** Retakable with change in topic to 9 cr max.**Last Taught:** Spring 2015, Spring 2001, Fall 1992.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ECON 999 Independent Work**

1-3 cr. Graduate.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



## Education-Interdepartmental (EDUC)

### EDUC 701 Critical Issues in Urban Education

3 cr. Graduate.

Examines critical issues within urban education and explores debates from historical and sociological frameworks.

**Prerequisites:** graduate standing and admitted to a School of Education doctoral program.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### EDUC 801 Seminar in Urban Education

3 cr. Graduate.

Continued examination and deeper analysis of critical issues in urban education. Focus on developing, exploring, and producing a literature review on a potential dissertation topic.

**Prerequisites:** graduate standing, admitted to a School of Education doctoral program, and EDUC 701 (P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### EDUC 881 Action Research

3 cr. Graduate.

Perspectives on action research, its forms in various contexts, and how it contributes to knowledge and improved practice.

**Prerequisites:** admis to Urban Ed PhD prog; Educ 701(C) or cons instr.

**Last Taught:** Spring 2005, Spring 2004, Spring 2002, Spring 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### EDUC 882 Multicultural Studies Practicum

3 cr. Graduate.

Intensive fieldwork/seminar with emphases on intercultural experience, integration of knowledge bases, and collaboration in community and university settings.

**Prerequisites:** Prereq: admis to Urban Ed PhD prog; Educ 881(P).

**Last Taught:** Summer 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### EDUC 900 Doctoral Seminar in Urban Education:

2-3 cr. Graduate.

Topics will vary. Overview of areas of study focuses upon problems in urban education. Emphasis placed upon research and potential research and potential search projects.

**Prerequisites:** admis to phd in urban educ prog.

**Course Rules:** May be repeated to max of 9 cr.

**Last Taught:** Fall 2008, Fall 2004, Fall 2002, Spring 1989.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### EDUC 901 Advanced Seminar in Urban Education

3 cr. Graduate.

Focus on research design and methodology based on a dissertation topic in consultation with the major advisor. Analytical plan includes equity, diversity, and justice frameworks.

**Prerequisites:** graduate standing, admitted to a School of Education doctoral program, and EDUC 801 (P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Educational Policy and Community Studies (ED POL)

### ED POL 100 Prior Professional Education Experience

3 cr. Undergraduate.

Allows Community Engagement & Education majors only to earn credits for their prior professional education experiences. Course credits may only be used towards lower electives.

**Prerequisites:** Admis to CEED.

**Course Rules:** Cr/no cr only.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ED POL 101 Prior Professional Education Experience Topics

1-42 cr. Undergraduate.

Second semester lower division curriculum: includes development of prior educational experience statement, personal goal analysis, learning agreement, continued acquisition of skills and understandings leading to competence, practice.

**Prerequisites:** ED POL 100 or consent of instructor.

**Course Rules:** Less than 42 cr available to students possessing some equivalent skills and/or understandings.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ED POL 111 Introduction to Community Action and Change

3 cr. Undergraduate.

Basic concepts and strategies for fostering collective action and change in communities and neighborhoods.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ED POL 112 Introduction to Community Education, Engagement, and Development

3 cr. Undergraduate.

Examines the strategies for community education, engagement, and development and discusses the different roles of education within a community setting.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ED POL 113 The Milwaukee Community

3 cr. Undergraduate.

An overview of communities and neighborhood groups in Milwaukee.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### ED POL 114 Community Issues, Policies, and Solutions

3 cr. Undergraduate.

Examines how social issues impact communities and neighborhoods while exploring strategies for change.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 179 Special Topics in Community Education:**

1-3 cr. Undergraduate.

**Prerequisites:** none.

**Course Rules:** May be retaken w/content chg to 12 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 200 Community Education III**

1-15 cr. Undergraduate.

Third semester lower division curriculum: emphasizes acquisition of skills and understandings leading to basic competence as set forth in student learning agreements. Includes fieldwork practice.

**Prerequisites:** Ed Pol 101 or cons instr.

**Course Rules:** Variable cr based on skills & understanding to be acquired & nature of practice.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 201 Community Education IV**

1-15 cr. Undergraduate.

Fourth semester of lower division curriculum: emphasizes final development of skills and understandings leading to basic competence as set forth in student learning agreements and continuation of fieldwork practice. Includes final evaluation of basic competence.

**Prerequisites:** Ed Pol 200 or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 202 Community Service Volunteer**

1-6 cr. Undergraduate.

**Prerequisites:** none.

**Course Rules:** Cr/no cr only. May be retaken to max of 6 cr.

**Last Taught:** Spring 2023, Spring 2020, Fall 2019, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 203 Communities and Neighborhoods in America**

3 cr. Undergraduate.

Students will construct a survey of their neighborhoods, examine theories of community structure, and analyze neighborhood improvement movements. Fulfills Ed Pol 113 req for CED.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 208 Experiential Learning Professional and Civic Development Course**

1 cr. Undergraduate.

Examination of students' internships in the local context of the Milwaukee metropolitan area, exploring both current and historic themes.

**Prerequisites:** an internship experience is required in conjunction with this course.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 212 Educational Issues in Spanish Speaking Communities**

3 cr. Undergraduate.

This course presents an overview of the educational issues in the Spanish-speaking communities in the United States and how these issues affect the total society.

**Prerequisites:** none.

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2019, Spring 2014, Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 279 Current Topics in Educational Policy and Community Studies:**

1-3 cr. Undergraduate.

Variable content course. Specific topic announced in the Schedule of Classes.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2021, Spring 2021, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** cons instr; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 299 Independent Reading**

1-3 cr. Undergraduate.

For the benefit of undergraduate students unable to secure needed content in regular courses.

**Prerequisites:** cons instr.

**Course Rules:** May be retaken to max of 6 cr.

**Last Taught:** Spring 2019, Summer 2018, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 302 Approaches to Relationships in the Child Care Setting**

3 cr. Undergraduate.

Communication and conflict resolution in relationships in the child care setting, emphasizing parent-child, teacher-child, teacher-teacher and parent-teacher relationships.

**Prerequisites:** consent of advisor if admitted to the Community Education program; junior standing or consent of instructor for all other individuals.

**Last Taught:** Spring 2021, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 315 Group Process and Civic Engagement:**

1-3 cr. Undergraduate.

Explore group process and identity and relate these issues to future civic engagement for emerging student leaders.

**Prerequisites:** none.

**Course Rules:** Not open to students with cr in Ed Pol 279 Emerging Leaders topics. May be retaken to 4 cr max.

**Last Taught:** Fall 2018, Fall 2017, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 375 Cultural Foundations of Education**

3 cr. Undergraduate.

Critical examination of cultural influences in American society as they affect education.

**Prerequisites:** soph st or cons instr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 377 Conceptual and Development Formulation for Prior Educational Experience**

3-6 cr. Undergraduate.

**Prerequisites:** C/NC only. May be retaken to 12 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 379 Current Topics in Community Education:**

1-6 cr. Undergraduate.

The specific topics and prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** jr st or cons instr.

**Course Rules:** May be retaken w/chg in topic to max of 12 cr.

**Last Taught:** Summer 2010, Fall 2009, Fall 1999, Fall 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 381 Introduction to Child Care:**

3 cr. Undergraduate.

An introductory course for students who are new to the field of child care. Enables students to begin working effectively with young children.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 383 Child Care Programming:**

1-3 cr. Undergraduate.

Study of child care programming as it relates to the child's social milieu: family, community, and child care center. Comparative examination of child care programs and their supporting theories.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2021, Summer 2020, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 416 Analysis of Child Care Environments**

3-6 cr. Undergraduate.

Introduces students to a variety of special designs for child care settings and to an understanding of evaluation process for environmental changes.

**Prerequisites:** consent of advisor if admitted to the Community Education program; junior standing or consent of instructor for all other individuals.

**Last Taught:** Spring 2021, Summer 2020, Spring 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 442 Intermediate Community Education Practice I**

3-9 cr. Undergraduate.

Supervised fieldwork in Area of Specialty (upper divisional majors in C.E.). Emphasizes acquisition of new skills understandings and their application to practice.

**Prerequisites:** Ed Pol 508(P) & cons instr.

**Course Rules:** May be retaken to 9 cr max.

**Last Taught:** Spring 2023, Spring 2017, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 460 The Chicano Experience**

3 cr. Undergraduate.

This course surveys important issues shaping the Chicano experience in U.S. society by focusing on immigration, the Barrio, Repatriation, Zoot Suit, Chicano-police riots, etc.

**Prerequisites:** none.

**General Education Requirements:** CD, HU

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st, cons instr, acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2014, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st, cons instr, acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2014, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 499 Independent Reading**

1-3 cr. Undergraduate.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May be retaken for cr.

**Last Taught:** Fall 2023, Summer 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 500 Sociology and Policy of Urban Communities and Schools**

3 cr. Undergraduate/Graduate.

Selected contemporary social issues analyzed for their bearing on urban communities and schools.

**Prerequisites:** jr st.

**Last Taught:** Summer 2006, Summer 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 500G Sociology and Policy of Urban Communities and Schools**

3 cr. Undergraduate/Graduate.

Selected contemporary social issues analyzed for their bearing on urban communities and schools.

**Prerequisites:** jr st.

**Last Taught:** Summer 2006, Summer 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 501G Community Change and Engagement**

3 cr. Graduate.

Concepts and strategies for community change and engagement in low-income urban settings.

**Prerequisites:** grad st or cons instr.

**Course Rules:** Not open to students with credit for ED POL 111.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 506 Research Techniques for Community Organizers and Community Educators**

3 cr. Undergraduate.

Introduction to basic research techniques and the specific skills needed for the community organizer and/or educator.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 507 Action Research on Milwaukee Institutions**

3 cr. Undergraduate/Graduate.

Examination and analysis of the organization, philosophy, and history of specific Milwaukee institutions. Emphasis placed on how these institutions affect the lives of community residents and appropriate alternatives to current arrangements.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 507G Action Research on Milwaukee Institutions**

3 cr. Undergraduate/Graduate.

Examination and analysis of the organization, philosophy, and history of specific Milwaukee institutions. Emphasis placed on how these institutions affect the lives of community residents and appropriate alternatives to current arrangements.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 508 Advanced Problems in Community Change and Engagement**

3 cr. Undergraduate/Graduate.

Advanced training in community engagement with reflective paper.

**Prerequisites:** Ed Pol 111(P) & cons instr.**Last Taught:** Summer 2022, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 508G Advanced Problems in Community Change and Engagement**

3 cr. Undergraduate/Graduate.

Advanced training in community engagement with reflective paper.

**Prerequisites:** Ed Pol 111(P) & cons instr.**Last Taught:** Summer 2022, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 509 Fieldwork/Practicum in Education and the Community**

1-3 cr. Undergraduate/Graduate.

Advanced fieldwork/practicum for students to acquire skills for educational and community practice.

**Prerequisites:** none.**Course Rules:** May be retaken to 6 cr max. Fieldwork hours correspond to credit value; 50 hours for 1 cr, 75 hours for 2 crs, 100 hours for 3 crs.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 509G Fieldwork/Practicum in Education and the Community**

1-3 cr. Undergraduate/Graduate.

Advanced fieldwork/practicum for students to acquire skills for educational and community practice.

**Prerequisites:** none.**Course Rules:** May be retaken to 6 cr max. Fieldwork hours correspond to credit value; 50 hours for 1 cr, 75 hours for 2 crs, 100 hours for 3 crs.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 510 Human Relations for Community Organizations & Community Engagement**

3 cr. Undergraduate/Graduate.

Analysis of selected concepts and resources bearing on human relations training. Various approaches, e.g., Harvard case studies, to human relations will be evaluated.

**Prerequisites:** jr st.**General Education Requirements:** SS**Last Taught:** Fall 1996, Spring 1996.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 510G Human Relations for Community Organizations & Community Engagement**

3 cr. Undergraduate/Graduate.

Analysis of selected concepts and resources bearing on human relations training. Various approaches, e.g., Harvard case studies, to human relations will be evaluated.

**Prerequisites:** jr st.**General Education Requirements:** SS**Last Taught:** Fall 1996, Spring 1996.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 519 Peer Programs and Mediation: Youth Mentoring and Supporting Youth**

3 cr. Undergraduate/Graduate.

Theory and practice of peer programs and how they are developed and sustained.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of Ed Pol 579 w/same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 519G Peer Programs and Mediation: Youth Mentoring and Supporting Youth**

3 cr. Undergraduate/Graduate.

Theory and practice of peer programs and how they are developed and sustained.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of Ed Pol 579 w/same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 520 Peace Education**

3 cr. Undergraduate/Graduate.

Discusses how education and community education can address the threats of violence and prepares students to teach about peace, nonviolence, and conflict resolution.

**Prerequisites:** jr st or cons instr. Minimum of 9 hrs Soc Sci division course work.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 520G Peace Education**

3 cr. Undergraduate/Graduate.

Discusses how education and community education can address the threats of violence and prepares students to teach about peace, nonviolence, and conflict resolution.

**Prerequisites:** jr st or cons instr. Minimum of 9 hrs Soc Sci division course work.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 521 Nonviolence in Education**

3 cr. Undergraduate/Graduate.

An overview of different theories of nonviolence and an examination of their applications in educational setting.

**Prerequisites:** jr st; Ed Pol 520(R); Psych 201(R) or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 521G Nonviolence in Education**

3 cr. Undergraduate/Graduate.

An overview of different theories of nonviolence and an examination of their applications in educational setting.

**Prerequisites:** jr st; Ed Pol 520(R); Psych 201(R) or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 530 Urban Education: Foundations**

3 cr. Undergraduate/Graduate.

Application of basic social science concepts to study of education in the urban setting.

**Prerequisites:** Prereq; jr st.**Last Taught:** Summer 2019, Summer 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 530G Urban Education: Foundations**

3 cr. Undergraduate/Graduate.

Application of basic social science concepts to study of education in the urban setting.

**Prerequisites:** Prereq; jr st.**Last Taught:** Summer 2019, Summer 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 531 Alternative Schools**

3 cr. Undergraduate/Graduate.

Examine the alternative schools movement.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of Ed Pol 330.**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 531G Alternative Schools**

3 cr. Undergraduate/Graduate.

Examine the alternative schools movement.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of Ed Pol 330.**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 533 Educating Black Males-Theories, Methods and Strategies**

3 cr. Undergraduate/Graduate.

This course will develop skills and strategies to affect changes in the lives of black males in the school system, k through 12 grade.

**Prerequisites:** jr st; Ed Pol 112 or 375 or equiv or teacher certification.**Last Taught:** Fall 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 533G Educating Black Males-Theories, Methods and Strategies**

3 cr. Undergraduate/Graduate.

This course will develop skills and strategies to affect changes in the lives of black males in the school system, k through 12 grade.

**Prerequisites:** jr st; Ed Pol 112 or 375 or equiv or teacher certification.**Last Taught:** Fall 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 534 Students Placed At Risk: Deconstructing Risk, Defining Promise**

3 cr. Undergraduate/Graduate.

Helps teachers to identify and understand the personal, social, cultural and community contexts which contribute to risk discourse and the labeling of public school students.

**Prerequisites:** junior standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 534G Students Placed At Risk: Deconstructing Risk, Defining Promise**

3 cr. Undergraduate/Graduate.

Helps teachers to identify and understand the personal, social, cultural and community contexts which contribute to risk discourse and the labeling of public school students.

**Prerequisites:** junior standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 535 Educating Students Placed At Risk: Pedagogies of Engagement**

3 cr. Undergraduate/Graduate.

Development of skills and techniques to enable teachers to be instructionally effective with students placed at risk.

**Prerequisites:** junior standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 535G Educating Students Placed At Risk: Pedagogies of Engagement**

3 cr. Undergraduate/Graduate.

Development of skills and techniques to enable teachers to be instructionally effective with students placed at risk.

**Prerequisites:** junior standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 541 Wisconsin Juvenile Justice System and the Law for School Personnel**

1 cr. Undergraduate/Graduate.

Provides students and school personnel with knowledge of Wisconsin juvenile justice system, and legal responsibilities of all school personnel, emphasizing current code.

**Prerequisites:** jr st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 541G Wisconsin Juvenile Justice System and the Law for School Personnel**

1 cr. Undergraduate/Graduate.

Provides students and school personnel with knowledge of Wisconsin juvenile justice system, and legal responsibilities of all school personnel, emphasizing current code.

**Prerequisites:** jr st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 550 Comparative Education**

3 cr. Undergraduate/Graduate.

Survey of foreign school systems with attention to cultural setting and major purposes.

**Prerequisites:** jr st.**Last Taught:** Spring 2007, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 550G Comparative Education**

3 cr. Undergraduate/Graduate.

Survey of foreign school systems with attention to cultural setting and major purposes.

**Prerequisites:** jr st.**Last Taught:** Spring 2007, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 560 Education and Hispanics**

3 cr. Undergraduate/Graduate.

Examination of the educational experiences of Hispanics in schools in the USA.

**Prerequisites:** jr st.**General Education Requirements:** CD, SS**Last Taught:** Spring 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 560G Education and Hispanics**

3 cr. Undergraduate/Graduate.

Examination of the educational experiences of Hispanics in schools in the USA.

**Prerequisites:** jr st.**General Education Requirements:** CD, SS**Last Taught:** Spring 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 561 Education Issues in American Indian Communities**

3 cr. Undergraduate/Graduate.

Unique political-legal, social-cultural contexts of Native Education, intergovernmental involvement and role in addressing social/cultural and developmental needs of tribal societies.

**Prerequisites:** jr st or cons instr.**General Education Requirements:** CD**Last Taught:** Spring 2010, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 561G Education Issues in American Indian Communities**

3 cr. Undergraduate/Graduate.

Unique political-legal, social-cultural contexts of Native Education, intergovernmental involvement and role in addressing social/cultural and developmental needs of tribal societies.

**Prerequisites:** jr st or cons instr.**General Education Requirements:** CD**Last Taught:** Spring 2010, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 575G Foundations of Education**

3 cr. Graduate.

Focuses on the development of public schooling in the US, particularly large urban districts, and contexts of foundations of education. Explores the school-society relationship from critical, normative, and interpretive perspectives.

**Prerequisites:** graduate standing.**Course Rules:** Counts as repeat of ED POL 375 taken at the undergraduate level.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 579 Current Topics in Cultural Foundations of Education:**

1-6 cr. Undergraduate/Graduate.

Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to max of 9 credits, including credits earned under ED POL 779.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 579G Current Topics in Cultural Foundations of Education:**

1-6 cr. Undergraduate/Graduate.

Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to max of 9 credits, including credits earned under ED POL 779.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 580 An Overview of Child/Youth Care**

3 cr. Undergraduate/Graduate.

Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.

**Prerequisites:** jr st or cons instr.**Course Rules:** Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.**Last Taught:** Fall 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 580G An Overview of Child/Youth Care**

3 cr. Undergraduate/Graduate.

Survey of skills, theories and approaches of the youth work field. Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.

**Prerequisites:** jr st or cons instr.**Course Rules:** Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.**Last Taught:** Fall 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 581 Youth Work Practice**

3 cr. Undergraduate/Graduate.

Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.

**Prerequisites:** jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.**Course Rules:** Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other.**Last Taught:** Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 581G Youth Work Practice**

3 cr. Undergraduate/Graduate.

Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.

**Prerequisites:** jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.**Course Rules:** Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other.**Last Taught:** Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 582 Operations Management in Early Childhood Programs**

3 cr. Undergraduate/Graduate.

An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.

**Prerequisites:** junior standing; AD LDSP 581(P); or consent of instructor.

**Course Rules:** AD LDSP 582 and ED POL 582 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 582G Operations Management in Early Childhood Programs**

3 cr. Undergraduate/Graduate.

An introduction to systems and operations theory. Students explore and apply management concepts, systems, policies, and procedures to improve the quality of programs and services.

**Prerequisites:** junior standing; AD LDSP 581(P); or consent of instructor.

**Course Rules:** AD LDSP 582 and ED POL 582 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 584 Early Childhood Programs and the External Environment**

3 cr. Undergraduate/Graduate.

Examines external influences that impact daycare. Students explore issues of culture, community, diversity, and policy as well as technical issues related to program quality.

**Prerequisites:** junior standing and AD LDSP 581(P); or consent of instructor.

**Last Taught:** Summer 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 584G Early Childhood Programs and the External Environment**

3 cr. Undergraduate/Graduate.

Examines external influences that impact daycare. Students explore issues of culture, community, diversity, and policy as well as technical issues related to program quality.

**Prerequisites:** junior standing and AD LDSP 581(P); or consent of instructor.

**Last Taught:** Summer 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 585 Supervised Practicum in Child and Youth Care**

2-4 cr. Undergraduate/Graduate.

Supervised practicum in residential agencies and settings which utilize child and youth care workers and serve behaviorally, cognitively and/or physically disabled youth.

**Prerequisites:** jr st; ED POL 580/EXCEDUC 580/SOC WRK 580(P), or grad st; cons instr.

**Course Rules:** ED POL 585/EXCEDUC 585 are jointly offered & count as repeats of each other.

**Last Taught:** Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 597 Public Schools, Church-State Issues: Educational Foundations**

3 cr. Undergraduate/Graduate.

Examination of the intersection between church and state in public education, including historical, legal, and moral issues; discussions of religious conflicts.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 597G Public Schools, Church-State Issues: Educational Foundations**

3 cr. Undergraduate/Graduate.

Examination of the intersection between church and state in public education, including historical, legal, and moral issues; discussions of religious conflicts.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 601 Foundations of Community-Based Organizations**

3 cr. Undergraduate/Graduate.

Overview of community based organizations, their structures, functions, & administration. Students will also be taught proposal writing skills.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 601G Foundations of Community-Based Organizations**

3 cr. Undergraduate/Graduate.

Overview of community based organizations, their structures, functions, & administration. Students will also be taught proposal writing skills.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 602 Proposal Writing and Fundraising Skills for Community-Based Organizations**

3 cr. Undergraduate/Graduate.

Course prepares students to research, identify and apply for government funded community programs.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 602G Proposal Writing and Fundraising Skills for Community-Based Organizations**

3 cr. Undergraduate/Graduate.

Course prepares students to research, identify and apply for government funded community programs.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 603 Community Policy Analysis**

3 cr. Undergraduate/Graduate.

Overview of policy analysis theory and approaches and techniques used to make sound policy decisions.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 603G Community Policy Analysis**

3 cr. Undergraduate/Graduate.

Overview of policy analysis theory and approaches and techniques used to make sound policy decisions.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 604 Marketing for Community-Based Organizations**

3 cr. Undergraduate/Graduate.

Basic theories of marketing and the application of marketing strategies used by community-based organizations.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 604G Marketing for Community-Based Organizations**

3 cr. Undergraduate/Graduate.

Basic theories of marketing and the application of marketing strategies used by community-based organizations.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 605 Community-Based Organization Funding**

3 cr. Undergraduate/Graduate.

Overview of basic fiscal issues (funding types and sources, accountability issues, oversight systems, etc) impacting community-based organizations.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 605G Community-Based Organization Funding**

3 cr. Undergraduate/Graduate.

Overview of basic fiscal issues (funding types and sources, accountability issues, oversight systems, etc) impacting community-based organizations.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 607 Service Learning and Community Engagement**

3 cr. Undergraduate/Graduate.

Examines theories and practices of Service Learning and Community Engagement. Provides frameworks for reflection and action. Explores power, inequality and approaches to social justice.

**Prerequisites:** jr st or cons instr.**Course Rules:** Part of concentration in Community Engagement and Partnerships.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 607G Service Learning and Community Engagement**

3 cr. Undergraduate/Graduate.

Examines theories and practices of Service Learning and Community Engagement. Provides frameworks for reflection and action. Explores power, inequality and approaches to social justice.

**Prerequisites:** jr st or cons instr.**Course Rules:** Part of concentration in Community Engagement and Partnerships.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 608 Social Media and Technology for Community Engagement**

3 cr. Undergraduate/Graduate.

Introduces a variety of current visions of social media and approaches to community informatics.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 608G Social Media and Technology for Community Engagement**

3 cr. Undergraduate/Graduate.

Introduces a variety of current visions of social media and approaches to community informatics.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 609 Community Partnerships**

3 cr. Undergraduate/Graduate.

Explores different partnership environments, including: community-campus partnerships, inter-agency non-profit partnerships; governmental-non-profit partnerships; and public-private partnerships through theory and practice.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 609G Community Partnerships**

3 cr. Undergraduate/Graduate.

Explores different partnership environments, including: community-campus partnerships, inter-agency non-profit partnerships; governmental-non-profit partnerships; and public-private partnerships through theory and practice.

**Prerequisites:** jr st or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 610 Reproduction of Minoritized Communities**

3 cr. Undergraduate/Graduate.

Analysis of the social, economic, and cultural forces behind the formation and reproduction of minoritized communities in the United States.

**Prerequisites:** junior standing; or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 610G Reproduction of Minoritized Communities**

3 cr. Undergraduate/Graduate.

Analysis of the social, economic, and cultural forces behind the formation and reproduction of minoritized communities in the United States.

**Prerequisites:** junior standing; or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED POL 611 Community Policies and Urban Minority Youths**

3 cr. Undergraduate/Graduate.

Focus on how community policies impact urban minority youths.

**Prerequisites:** jr st.**Last Taught:** Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ED POL 611G Community Policies and Urban Minority Youths**

3 cr. Undergraduate/Graduate.

Focus on how community policies impact urban minority youths.

**Prerequisites:** jr st.

**Last Taught:** Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 612 Community Participation and Power**

3 cr. Undergraduate/Graduate.

Strategies for community participation in policy and practice; importance of understanding power relations for success. Students choose individual focus: e.g., housing, public health, education, etc.

**Prerequisites:** jr st.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 612G Community Participation and Power**

3 cr. Undergraduate/Graduate.

Strategies for community participation in policy and practice; importance of understanding power relations for success. Students choose individual focus: e.g., housing, public health, education, etc.

**Prerequisites:** jr st.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 613 Context and Foundations of Educational Policy**

3 cr. Undergraduate/Graduate.

Defines educational policy, studies philosophical, historical, and social contexts of educational policy, examines context of educational policy, and presents contemporary educational concerns.

**Prerequisites:** jr st.

**Last Taught:** Fall 2012, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 613G Context and Foundations of Educational Policy**

3 cr. Undergraduate/Graduate.

Defines educational policy, studies philosophical, historical, and social contexts of educational policy, examines context of educational policy, and presents contemporary educational concerns.

**Prerequisites:** jr st.

**Last Taught:** Fall 2012, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 620 History of the Education of African Americans**

3 cr. Undergraduate/Graduate.

Study of the history, biographies, trends, cultural influences, and movements in the education of African Americans: Africa to slavery to the present. Comparison with 'white education.'

**Prerequisites:** jr st.

**Last Taught:** Spring 2019, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 620G History of the Education of African Americans**

3 cr. Undergraduate/Graduate.

Study of the history, biographies, trends, cultural influences, and movements in the education of African Americans: Africa to slavery to the present. Comparison with 'white education.'

**Prerequisites:** jr st.

**Last Taught:** Spring 2019, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 621 History of Native Education and Policy Development**

3 cr. Undergraduate/Graduate.

Historic policy development affecting the education of American Indians including the development of schools and the relationship of education to federal Indian policy.

**Prerequisites:** jr st or cons instr.

**General Education Requirements:** CD

**Last Taught:** Fall 2013, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 621G History of Native Education and Policy Development**

3 cr. Undergraduate/Graduate.

Historic policy development affecting the education of American Indians including the development of schools and the relationship of education to federal Indian policy.

**Prerequisites:** jr st or cons instr.

**General Education Requirements:** CD

**Last Taught:** Fall 2013, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 624 Gender and Education**

3 cr. Undergraduate/Graduate.

Overview of the major discussions and debates in the area of gender, focusing on the intersections of gender, race, class, ethnicity, and sexuality.

**Prerequisites:** jr st.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 624G Gender and Education**

3 cr. Undergraduate/Graduate.

Overview of the major discussions and debates in the area of gender, focusing on the intersections of gender, race, class, ethnicity, and sexuality.

**Prerequisites:** jr st.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 625 Race Relations in Education**

3 cr. Undergraduate/Graduate.

Study and analysis of historical and theoretical bases of racism/race relations in america and their influences on contemporary educational policies and practices.

**Prerequisites:** jr st.

**General Education Requirements:** CD

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 625G Race Relations in Education**

3 cr. Undergraduate/Graduate.

Study and analysis of historical and theoretical bases of racism/race relations in america and their influences on contemporary educational policies and practices.

**Prerequisites:** jr st.

**General Education Requirements:** CD

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 626 Antiracist Education**

3 cr. Undergraduate/Graduate.  
Comparative perspectives on racism and antiracism in society and education.  
**Prerequisites:** jr st.  
**Course Rules:** Counts as repeat of Ed Pol 579 with same topic.  
**Last Taught:** Fall 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 626G Antiracist Education**

3 cr. Undergraduate/Graduate.  
Comparative perspectives on racism and antiracism in society and education.  
**Prerequisites:** jr st.  
**Course Rules:** Counts as repeat of Ed Pol 579 with same topic.  
**Last Taught:** Fall 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 627 Theories and Issues of Racial Justice in Education**

3 cr. Undergraduate/Graduate.  
Explores the tenets and application of Critical Race Theory in the field of education including relevant application to Culturally Responsive Pedagogy in schools.  
**Prerequisites:** junior standing.  
**Course Rules:** Counts as a repeat of and not open for credit to students with credit in ED POL 579 with topic Critical Race Theory/Schools/Culturally Relevant Pedagogy.  
**Last Taught:** Spring 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 627G Theories and Issues of Racial Justice in Education**

3 cr. Undergraduate/Graduate.  
Explores the tenets and application of Critical Race Theory in the field of education including relevant application to Culturally Responsive Pedagogy in schools.  
**Prerequisites:** junior standing.  
**Course Rules:** Counts as a repeat of and not open for credit to students with credit in ED POL 579 with topic Critical Race Theory/Schools/Culturally Relevant Pedagogy.  
**Last Taught:** Spring 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 630 Race, Ethnicity, and Public Policy in Urban America**

3 cr. Undergraduate/Graduate.  
Examination of the relationship between race, ethnicity, and public policy with emphasis on issues (housing, crime, welfare reform, poverty, employment, discrimination, etc.) impacting urban communities.  
**Prerequisites:** junior standing or consent of instructor.  
**Last Taught:** Spring 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 630G Race, Ethnicity, and Public Policy in Urban America**

3 cr. Undergraduate/Graduate.  
Examination of the relationship between race, ethnicity, and public policy with emphasis on issues (housing, crime, welfare reform, poverty, employment, discrimination, etc.) impacting urban communities.  
**Prerequisites:** junior standing or consent of instructor.  
**Last Taught:** Spring 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 633 Community Development: History, Structure, Process-Empowering Communities**

3 cr. Undergraduate/Graduate.  
Introduction to the principles, ideas, and techniques of community empowerment and the development of minoritized communities.  
**Prerequisites:** junior standing; or consent of instructor.  
**Last Taught:** Fall 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 633G Community Development: History, Structure, Process-Empowering Communities**

3 cr. Undergraduate/Graduate.  
Introduction to the principles, ideas, and techniques of community empowerment and the development of minoritized communities.  
**Prerequisites:** junior standing; or consent of instructor.  
**Last Taught:** Fall 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 636 Issues in African American Education**

3 cr. Undergraduate/Graduate.  
Contemporary issues in African American education, including special education, poverty, and academics, and their historical contexts.  
**Prerequisites:** jr st.  
**Last Taught:** Fall 2017, Fall 2016.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 636G Issues in African American Education**

3 cr. Undergraduate/Graduate.  
Contemporary issues in African American education, including special education, poverty, and academics, and their historical contexts.  
**Prerequisites:** jr st.  
**Last Taught:** Fall 2017, Fall 2016.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 639 Milwaukee Black Community**

3 cr. Undergraduate/Graduate.  
Overview of the social, historical, economic and political developments of Milwaukee's Black community.  
**Prerequisites:** jr st.  
**Last Taught:** Spring 2015.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 639G Milwaukee Black Community**

3 cr. Undergraduate/Graduate.  
Overview of the social, historical, economic and political developments of Milwaukee's Black community.  
**Prerequisites:** jr st.  
**Last Taught:** Spring 2015.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 640 The Rise and Fall of America's Southern Civil Rights Movement**

3 cr. Undergraduate/Graduate.  
African Americans' struggle for Civil Rights in the South, focusing on issues such as education, housing, and politics; social and historical context for related policies.  
**Prerequisites:** jr st.  
**Last Taught:** Spring 2014, Fall 2011.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 640G The Rise and Fall of America's Southern Civil Rights Movement**

3 cr. Undergraduate/Graduate.

African Americans' struggle for Civil Rights in the South, focusing on issues such as education, housing, and politics; social and historical context for related policies.

**Prerequisites:** jr st.

**Last Taught:** Spring 2014, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 650 The Civil Rights Movement in Northern Cities**

3 cr. Undergraduate/Graduate.

Exploration of the Civil Rights Movement in northern cities, focusing on issues such as education, housing, and politics; social and historical context for related policies.

**Prerequisites:** jr st.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 650G The Civil Rights Movement in Northern Cities**

3 cr. Undergraduate/Graduate.

Exploration of the Civil Rights Movement in northern cities, focusing on issues such as education, housing, and politics; social and historical context for related policies.

**Prerequisites:** jr st.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 688 Fieldwork in Multicultural Education**

1-6 cr. Undergraduate/Graduate.

Fieldwork in multicultural settings appropriate for cultural research, analysis and study. Individualized requirements and evaluation criteria to be determined by faculty on individualized bases.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 688G Fieldwork in Multicultural Education**

1-6 cr. Undergraduate/Graduate.

Fieldwork in multicultural settings appropriate for cultural research, analysis and study. Individualized requirements and evaluation criteria to be determined by faculty on individualized bases.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 698 Fieldwork in International Education**

1-6 cr. Undergraduate/Graduate.

Fieldwork in intercultural settings appropriate for cultural research, analysis and study. Requirements and evaluation criteria to be determined by faculty on individualized basis.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2019, Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 698G Fieldwork in International Education**

1-6 cr. Undergraduate/Graduate.

Fieldwork in intercultural settings appropriate for cultural research, analysis and study. Requirements and evaluation criteria to be determined by faculty on individualized basis.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2019, Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 702 Cultural Foundations of Education Graduate Seminar**

3 cr. Graduate.

Introduction to graduate studies. Provides students the skills and knowledge needed to succeed in graduate school.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 705 Sociology of Education and Community Engagement**

3 cr. Graduate.

Focus on education and communities as social systems. Examination of race/ethnicity, socioeconomic class, and gender in communities and schools.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 710 Research Methods for Education and Community Engagement**

3 cr. Graduate.

Critical examination of historical, philosophical, sociological and comparative research methods and strategies and their implications for community engagement and educational change.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 721 Data Analysis for Educational Policy & Community Engagement**

3 cr. Graduate.

Provides students with basic quantitative skills needed for gathering, organizing, interpreting, reporting and presenting data to impact community policies.

**Prerequisites:** grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 740 Modern Philosophies of Education and Community**

3 cr. Graduate.

Analysis of philosophies of education and of community processes; exploration of beliefs about values and knowledge within cultural contexts.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 750 History of Education in American Communities**

3 cr. Graduate.

Study of consensus and conflict in the ideas and issues shaping education and community in the changing U.S. society; includes an emphasis on the education and engagement of immigrants, minorities and women in and outside of mainstream society..

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 780 Urban Education Policies and Community: Problems and Opportunities**

3 cr. Graduate.

Issues impacting urban school districts.

**Prerequisites:** grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 791 Action Research: Capstone Workshop**

3 cr. Graduate.

Capstone research course for students in the Cultural Foundations of Education MS program

**Prerequisites:** grad st; Ed Pol 710 and 705 (P), 740 & 750 (P) or (C) plus 6 addl cr; cons instr.

**Course Rules:** Open to Cultural Foundations Students only.

**Last Taught:** Fall 2023, Spring 2022, Fall 2021, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 799 Independent Reading**

1-3 cr. Graduate.

For benefit of grad students unable to secure needed content in regular courses.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 805 Sociology of Education: Seminar**

3 cr. Graduate.

Evaluation of theory, scholarly research, and issues in the sociology of education, with emphasis on empirical studies of social stratification and social mobility.

**Prerequisites:** Doctoral st or cons instr.

**Last Taught:** Spring 2021, Spring 2020, Spring 2018, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 822 Global Educational Studies**

3 cr. Graduate.

Study of education worldwide as well as issues that affect education internationally, including inequalities between and within countries.

Examination of proposed reforms, innovations and technologies.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2015, Spring 2014, Fall 2012, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 823 Multicultural Education**

3 cr. Graduate.

Study of cultural diversity and its relationship to educational theory and practice. Emphasis upon developing and analyzing programs with a multicultural emphasis.

**Prerequisites:** grad st; Ed Pol 705(P) or 750(P) or cons instr.

**Last Taught:** Summer 2014, Summer 2003, Summer 2002, Summer 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 837 Emergent Methods in Qualitative Research for Social Foundations**

3 cr. Graduate.

Provides students an advance overview of state-of-the-art qualitative research methods.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 840 Seminar in Educational Theory**

3 cr. Graduate.

Examination of prominent theories of education and society and application to current educational issues and contexts.

**Prerequisites:** Doctoral st or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 850 Seminar in History of American Education**

3 cr. Graduate.

Historical background of contemporary debates and controversies in American education.

**Prerequisites:** Doctoral st or cons instr.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Spring 2019, Fall 2018, Summer 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 990 Research or Thesis**

1-3 cr. Graduate.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED POL 999 Independent Reading**

1-3 cr. Graduate.

Variable content course.

**Prerequisites:** master's degree.

**Course Rules:** Retakeable to max of 9 cr.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Educational Psychology (ED PSY)

**ED PSY 100 Learning Skills Laboratory**

2 cr. Undergraduate.

**Prerequisites:** none. Not open to jr & sr st except as auditors.

**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 101 Foundations of Academic Success**

1 cr. Undergraduate.

A variable content course designed to increase retention through self-assessment, career exploration, decision-making, study skills, goal setting, and available resources at UWM.

**Prerequisites:** none.

**Course Rules:** Credit/No Credit only. Retakeable to 6 credits max.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 102 Success in Academics and Athletics**

1 cr. Undergraduate.

Offers information concerning topics that impact the Division I student-athlete experience. Topics include time management, NCAA Rules and Regulations, academic major exploration, career planning, and campus resources exploration.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of ED PSY 101 with topic Success in Academics and Athletics.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 104 Pathways to Success at UWM:**

3 cr. Undergraduate.

Provides students with knowledge of and connection to campus resources, helping with study skills and time management in order to be successful at UWM.

**Prerequisites:** none.

**Course Rules:** May not be retaken for credit. Counts as repeat of Ed Psy 101 with same topic.

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 105 Motivation Strategies**

3 cr. Undergraduate.

Enhances student success and retention and helps students create greater success in college and life. Strategies for creating academic, professional, and personal success.

**Prerequisites:** none.

**Last Taught:** Spring 2018, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 110 Planning Your Major, Career**

3 cr. Undergraduate.

Understanding the career planning process for making decisions about academic majors and careers.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of Ed Psy 101 with same topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 123 Jumpstart: First Year Student Experience and Success**

1 cr. Undergraduate.

University experience course for first-year students with a declared major in the School of Education; focus on student transition to college, success, and belonging.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of ED PSY 279 with topic Jumpstart: First Year Student Experience Success.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 212 Career Planning and Development for the Multicultural Workplace**

3 cr.

Understanding of and preparation for multicultural work environments; critical reflection on cultural identities, connecting personal history to social and historical forces, understanding bias and oppression.

**Prerequisites:** OWC Part A or CGS ENG 102(P).

**Course Rules:** CGS PSY 212 and ED PSY 212 are jointly offered and count as repeats of one another.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 220 Positive Psychology Applied to Culture, Learning, & Development**

3 cr.

Introduction to topics related to happiness and positive aspects of the learning experience, positive psychological constructs that optimize learning.

**Prerequisites:** OWC Part A or CGS ENG 102(P).

**Course Rules:** CGS PSY 220 and ED PSY 220 are jointly offered and count as repeats of one another.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 230 Orientation Leader Training**

2 cr. Undergraduate.

Overview of academic policies and procedures; leadership, group facilitation, and presentation skills development for orientation leadership positions.

**Prerequisites:** none.

**Course Rules:** Not open for credit to students with credit in ED PSY 279 with the topic Orientation Leader Training.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 277 Cross-Cultural Conversations**

3 cr. Undergraduate.

Multicultural dialogue on issues of race, ethnicity, social class, gender, sexual orientation, and other aspects of identity and impacts on personal lives, communities, and society.

**Prerequisites:** none.

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 279 Current Topics in Educational Psychology:**

1-3 cr. Undergraduate.

Specific topic announced in Schedule of Classes each time course is offered; any additional prerequisites are included in announcement.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Fall 2022, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 290 Individual Research**

1-3 cr. Undergraduate.

**Prerequisites:** cons instr.

**Last Taught:** Spring 2005, Spring 2001, Spring 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** cons instr; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 299 Independent Reading**

1-3 cr. Undergraduate.

For benefit of undergraduate students unable to secure needed content in regular courses.

**Prerequisites:** cons instr.

**Last Taught:** Fall 2019, Summer 2012, Spring 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 301 Successful Career Transitions: Ideas, Strategies, Accomplishments**

2 cr. Undergraduate.

Help for students to clarify post graduation education or employment goals and successfully address employer/career research, resume development, employer targeting, networking and interview preparation.

**Prerequisites:** jr st.

**Course Rules:** Credit/No Credit only.

**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 320 Principles of Classroom Appraisal and Evaluation**

2-3 cr. Undergraduate.

Principles of evaluation with major emphasis upon nonstandardized and informal techniques of appraisal.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 325 Practice of Classroom Assessment**

2-3 cr. Undergraduate.

Introduces the principles and practices of student-centered classroom assessment. Students gain an understanding of when and how to use a variety of assessment techniques.

**Prerequisites:** admis to School of Educ.

**Course Rules:** 1 cr counts as repeat of Ed Psy 326.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 330 Introduction to Learning and Development**

3 cr. Undergraduate.

Principles and concepts of learning and development that contribute to the understanding and direction of school learning.

**Prerequisites:** sophomore standing.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st, cons instr, acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st, cons instr, acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 505 Positive Psychology: Theory and Application in Learning Contexts**

1-3 cr. Undergraduate/Graduate.

Introduction to positive psychology and its application in school and learning settings.

**Prerequisites:** junior standing.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 505G Positive Psychology: Theory and Application in Learning Contexts**

1-3 cr. Undergraduate/Graduate.

Introduction to positive psychology and its application in school and learning settings.

**Prerequisites:** junior standing.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 541 Assessment in Science and Math I**

1 cr. Undergraduate/Graduate.

First of a three part assessment series for MACSTEP students.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 541G Assessment in Science and Math I**

1 cr. Undergraduate/Graduate.

First of a three part assessment series for MACSTEP students.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 542 Assessment in Science and Math II**

1 cr. Undergraduate/Graduate.

Second in a three part assessment series for MACSTEP students.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 542G Assessment in Science and Math II**

1 cr. Undergraduate/Graduate.

Second in a three part assessment series for MACSTEP students.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 543 Assessment in Science and Math III**

1 cr. Undergraduate/Graduate.

Third of a three part assessment series for MACSTEP students.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 543G Assessment in Science and Math III**

1 cr. Undergraduate/Graduate.

Third of a three part assessment series for MACSTEP students.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ed Psy 579 with topic 'Alternative Assess-Sci/Math.'

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 550 Social and Affective Issues in Urban Classrooms**

3 cr. Undergraduate/Graduate.

Explore the social/emotional aspects of children's development as related to schooling and present a framework for creating conducive classroom learning environments.

**Prerequisites:** jr st; admis to School of Educ.

**Last Taught:** Spring 2003, Fall 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 550G Social and Affective Issues in Urban Classrooms**

3 cr. Undergraduate/Graduate.

Explore the social/emotional aspects of children's development as related to schooling and present a framework for creating conducive classroom learning environments.

**Prerequisites:** jr st; admis to School of Educ.

**Last Taught:** Spring 2003, Fall 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 551 Social and Affective Issues: Case-Based Problem-Solving**

1 cr. Undergraduate/Graduate.

Students will critique various strategies presented in Ed Psy 550 and engage in a problem-solving process focusing on social/emotional issues and classroom interventions.

**Prerequisites:** jr st; Ed Psy 550(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 551G Social and Affective Issues: Case-Based Problem-Solving**

1 cr. Undergraduate/Graduate.

Students will critique various strategies presented in Ed Psy 550 and engage in a problem-solving process focusing on social/emotional issues and classroom interventions.

**Prerequisites:** jr st; Ed Psy 550(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 575 Infant and Early Childhood Assessment**

3 cr. Undergraduate/Graduate.

Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.

**Prerequisites:** jr st or grad st.

**Last Taught:** Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 575G Infant and Early Childhood Assessment**

3 cr. Undergraduate/Graduate.

Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.

**Prerequisites:** jr st or grad st.

**Last Taught:** Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 579 Current Topics in Educational Psychology:**

1-3 cr. Undergraduate/Graduate.

Specific topic and prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Fall 2011, Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 579G Current Topics in Educational Psychology:**

1-3 cr. Undergraduate/Graduate.

Specific topic and prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Fall 2011, Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 613 Infant and Early Childhood Assessment**

3 cr. Undergraduate/Graduate.

Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ed Psy 575. Jointly offered with and counts as repeat of ExcEduc 613.

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 613G Infant and Early Childhood Assessment**

3 cr. Undergraduate/Graduate.

Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Ed Psy 575. Jointly offered with and counts as repeat of ExcEduc 613.

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 624 Educational Statistical Methods I**

3 cr. Undergraduate/Graduate.

Overview of common statistical techniques used in educational research, including univariate and bivariate descriptive statistics, inferential statistics, one-way analysis of variance, and linear regression.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 624G Educational Statistical Methods I**

3 cr. Undergraduate/Graduate.

Overview of common statistical techniques used in educational research, including univariate and bivariate descriptive statistics, inferential statistics, one-way analysis of variance, and linear regression.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 631 Cognition: Learning, Problem Solving and Thinking**

3 cr. Undergraduate/Graduate.

Overview of historical theories of learning and current theories of cognition. Emphasis on application to instruction, school subjects, workplace training, self-directed learning.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 631G Cognition: Learning, Problem Solving and Thinking**

3 cr. Undergraduate/Graduate.

Overview of historical theories of learning and current theories of cognition. Emphasis on application to instruction, school subjects, workplace training, self-directed learning.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 637 The Psychology of Informal Learning Contexts**

3 cr. Undergraduate/Graduate.

Overview of theory and research about how people learn in informal contexts, i.e. after-school settings, online immersive environments, science centers, museums and cultural institutions.

**Prerequisites:** jr st.**Last Taught:** Fall 2010, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 637G The Psychology of Informal Learning Contexts**

3 cr. Undergraduate/Graduate.

Overview of theory and research about how people learn in informal contexts, i.e. after-school settings, online immersive environments, science centers, museums and cultural institutions.

**Prerequisites:** jr st.**Last Taught:** Fall 2010, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 640 Human Development: Theory and Research**

3 cr. Undergraduate/Graduate.

Survey of theory and research in human development from conception to death, emphasizing the child and adolescent periods of growth.

**Prerequisites:** junior standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 640G Human Development: Theory and Research**

3 cr. Undergraduate/Graduate.

Survey of theory and research in human development from conception to death, emphasizing the child and adolescent periods of growth.

**Prerequisites:** junior standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 710 Child and Adolescent Mental Health Issues in Schools**

3 cr. Graduate.

Understanding of mental health disorders and treatment among children and adolescents in school-based settings. Developmental and risk factors associated with behavioral and emotional health problems.

**Last Taught:** Spring 2023, Summer 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 711 Cultural Context of Children's Mental Health**

3 cr. Graduate.

Influence of culture on the mental health of children; topography of cultural difference in the US, culture-bound syndromes, influence of cultural variables on mental health.

**Prerequisites:** grad st**Course Rules:** Counts as repeat of Ed Psy 779 with same topic.**Last Taught:** Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 712 Mentally Healthy Classroom and School Environments**

3 cr. Graduate.

Issues pertaining to socio-emotional learning in school settings; techniques, leadership, & collaboration for fostering emotionally healthy school environments.

**Prerequisites:** grad st**Last Taught:** Spring 2016, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 713 Mental Health Needs in Urban Environments**

3 cr. Graduate.

Introduction for educators to the unique context and characteristics of urban environments, cultivation of understanding of factors that can shape the mental health of developing children.

**Prerequisites:** grad st**Last Taught:** Summer 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 720 Techniques of Educational and Psychological Measurement**

3 cr. Graduate.

Overview of principles of measurement in educational and psychological testing. Topics include test reliability, test validity, test bias, test score interpretation, and standardized tests.

**Prerequisites:** graduate standing and ED PSY 624(P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 724 Educational Statistical Methods II**

4 cr. Graduate.

Applications of common statistical techniques used in educational research, including two-way analysis of variance, multiple mean comparisons, and multiple regression.

**Prerequisites:** grad st; Ed Psy 624(P)**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 725 Improving Teaching and Learning with Classroom-Based Assessments**

3 cr. Graduate.

Development and implementation of classroom-based assessment instruments within existing large-scale state and district accountability systems.

**Prerequisites:** grad st.**Course Rules:** Jointly offered w/ & counts as repeat of CurrInls 725.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ED PSY 728 Techniques of Educational Research**

3 cr. Graduate.

Study of major design and analysis strategies used in educational research with emphasis upon the critique of existing studies and the planning of future studies.

**Prerequisites:** grad st & Ed Psy 624(P).

**Last Taught:** Fall 2023, Spring 2022, Fall 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 731 Cognition and the Design of Instruction**

3 cr. Graduate.

Review of theories of human learning and cognition; emphasis on research on learning from text and the design of text and learning adjuncts.

**Prerequisites:** grad st; Ed Psy 631(P) or equiv.

**Last Taught:** Summer 2010, Spring 1994, Spring 1993, Spring 1992.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 732 Cognitive Behavioral Intervention Strategies in Education**

3 cr. Graduate.

Theory and application of effective behavioral treatments for children with adjustment problems in school. Emphasis on principles and techniques of cognitive and multimodal behavioral therapy.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 733 Educational Applications of Social Psychology**

3 cr. Graduate.

Implications of theory and research in socialization, attitude development and change, group processes, social perception and role behavior for classroom practices and teacher-student interaction.

**Prerequisites:** grad st.

**Last Taught:** Spring 2000, Spring 1998, Fall 1995, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 734 Contextual Determinants of Motivation**

3 cr. Graduate.

Review of research concerning the effects of teacher expectations, school and classroom climate, and psycho-social variables on student motivation. Focus on problem-solving.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2022, Fall 2020, Spring 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 735 Social Cognition in Educational Psychology**

3 cr. Graduate.

Theory and research on basic cognitive elements and processes used in understanding the self and others with emphasis on applications in educational and counseling settings.

**Prerequisites:** grad st; Ed Psy 631(P) or 640(P); or cons instr.

**Last Taught:** Spring 2022, Fall 2017, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 741 Cognitive Development**

3 cr. Graduate.

Examination of theory and research in cognitive development and applications to developmental assessment and instruction.

**Prerequisites:** grad st; Ed Psy 640(P) or equiv or cons instr.

**Last Taught:** Fall 1999, Spring 1998, Fall 1996, Spring 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 742 Personality Theories and the Educational Process**

3 cr. Graduate.

A study of the major theories of personality growth and development. An emphasis upon the application of the theories to the educational process.

**Prerequisites:** grad st.

**Last Taught:** Spring 2009, Fall 1997, Spring 1996, Fall 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 743 Human Development: Study of Infancy and Early Childhood**

3 cr. Graduate.

Study of physical, intellectual, social and emotional development from birth to six years.

**Prerequisites:** grad st, Ed Psy 640(P) or cons instr.

**Last Taught:** Fall 2012, Fall 2011, Fall 2010, Summer 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 745 Human Development: Study of Middle Childhood**

3 cr. Graduate.

Study of the physical, intellectual, social, and emotional development of children from 6-12 years of age.

**Prerequisites:** grad st & Ed Psy 640(P) or equiv or cons instr.

**Last Taught:** Fall 2000, Spring 1999, Fall 1997, Spring 1996.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 746 Human Development: Study of the Adolescent**

3 cr. Graduate.

Study of physical, intellectual, social and emotional development during adolescents.

**Prerequisites:** grad st; Ed Psy 640(P) or cons instr.

**Last Taught:** Fall 2022, Spring 2020, Fall 2017, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 747 Human Development: Study of the Adult**

3 cr. Graduate.

Physical, social, affective and cognitive development which characterizes the period from young adulthood through aging.

**Prerequisites:** grad st & Ed Psy 640(P) or equiv or cons instr.

**Last Taught:** Spring 2021, Spring 2015, Spring 2010, Summer 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 748 Oral Language, Cognition, and Literacy**

3 cr. Graduate.

Psychological and linguistic bases of speaking, reading, and writing in children and adults from diverse populations. The importance of language and cognition for literacy development.

**Prerequisites:** graduate standing and a college-level course in language acquisition or reading or child development or linguistics; or consent of instructor.

**Course Rules:** ED PSY 748 and LINGUIS 748 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 751 Professional and Historical Issues in School Psychology**

3 cr. Graduate.

Introduction to the practice of psychology in the schools. This course includes the history and systems of psychology, and professional practice issues.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 752 Developmental Psychopathology**

3 cr. Graduate.

Study of characteristics, definitions, developmental course, correlates, causes, contexts, and outcomes of psychopathology in children and adolescents. Explores interventions within a developmental systems perspective.

**Prerequisites:** Ed Psy 755 or Couns 710 or equiv.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 755 Cognitive Assessment: School Age Children**

4 cr. Graduate.

Introduction to school psychology practices in cognitive assessment for school age students. Includes didactic and clinical experiences.

**Prerequisites:** graduate standing or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 756 Assessment and Intervention: Early Childhood**

3 cr. Graduate.

Introduction to school psychology practices in assessment and intervention for early childhood children and families. Didactic and clinical experiences are included.

**Prerequisites:** grad st; Ed Psy 755; cons instr.**Last Taught:** Summer 2003, Summer 2002, Summer 2001, Fall 1998.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 760 Academic Intervention and Alternative Assessment**

3 cr. Graduate.

Reviews and critiques major educational reforms in regular and exceptional education. Alternative assessment paradigms, context variables in classrooms, teacher-child interactions, and change strategies are examined.

**Prerequisites:** grad st.; Ed Psy 755 (P)**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 779 Current Topics in Educational Psychology:**

1-3 cr. Graduate.

Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** grad st.**Course Rules:** May be repeated with change in topic to max of 9 cr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 790 Research or Thesis**

1-3 cr. Graduate.

Master's level course.

**Prerequisites:** grad st & cons instr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 799 Independent Reading**

1-3 cr. Graduate.

For benefit of superior graduate students unable to secure needed content in regular courses.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 801 Urban Education: Doctoral Seminar in Educational Psychology**

3 cr. Graduate.

Overview of theory and research in educational psychology with emphasis on problems and issues in urban settings.

**Prerequisites:** grad st admis to urban educ doctoral prog; Educ 701.**Last Taught:** Summer 2010, Summer 2009, Spring 2008, Summer 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 814 Cognition and Emotion: The Affective Components of Human Thought**

3 cr. Graduate.

Intersection of cognition and emotion with particular focus on affective processes.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 820 Multiple Regression**

3 cr. Graduate.

Basic and advanced topics in linear regression analysis, including prediction, mediation and moderation effects, curvilinear relationship, categorical predictors, and other general linear models like ANCOVA.

**Prerequisites:** grad st; Ed Psy 724(P) or cons instr.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 821 Psychometric Theory and Practice**

3 cr. Graduate.

Advanced topics in psychometrics, covering classical test theory, generalizability theory, and item response theory, test bias, item analysis, and test equating and linking.

**Prerequisites:** graduate standing and ED PSY 720(P) or equivalent; or consent of instructor.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 822 Item Response Theory**

3 cr. Graduate.

A survey of IRT models and their applications in measurement issues, such as latent trait estimation, model fit, differential item functioning, and computerized adaptive testing.

**Prerequisites:** graduate standing and ED PSY 624(P) or equivalent; or consent of instructor.**Last Taught:** Spring 2019, Spring 2017, Spring 2015, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ED PSY 823 Structural Equation Modeling**

3 cr. Graduate.

Study of applied structural equation modeling including path analysis, confirmatory factor analysis and other latent variable models; exposure to computer programs used for model analysis.

**Prerequisites:** grad st; Ed Psy 825 (P) or 820 (P) or equiv; cons instr.**Last Taught:** Fall 2014, Spring 2012, Spring 2010, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 824 Advanced Experimental Design and Analysis**

3 cr. Graduate.

Advanced topics in the design and statistical analysis of experiments applied to educational research, including n-way analysis of variance and repeated measures analysis of variance. Prereq: grad st; Ed Psy 724(P) or equiv

**Last Taught:** Spring 2023, Spring 2021, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 825 Multivariate Methods**

3 cr. Graduate.

Multivariate analysis methods such as MANOVA, discriminant analysis, factor analysis, and principal components analysis, and their applications in the social sciences.

**Prerequisites:** grad st; Ed Psy 724(P) or cons instr; Ed Psy 820(R).

**Last Taught:** Spring 2022, Spring 2018, Fall 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 826 Analysis of Cross-Classified Categorical Data**

3 cr. Graduate.

Use of methods that include chi-square, log linear, and logistic regression models to analyze cross-classified categorical data with applications in the social sciences.

**Prerequisites:** grad st; Ed Psy 724(P).

**Last Taught:** Fall 2022, Fall 2020, Fall 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 827 Survey Research Methods**

3 cr. Graduate.

Advanced topics in survey design, administration, and analysis. Topics include sampling designs, data collection mode, measurement error, and small- and large-scale survey data analysis techniques.

**Prerequisites:** graduate standing, ED PSY 624(P) or equivalent; or consent of instructor.

**Last Taught:** Spring 2022, Spring 2018, Spring 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 828 Program Evaluation in Education**

3 cr. Graduate.

An examination of the issues related to educational program evaluation; application of statistical and measurement methods to evaluation strategies and designs.

**Prerequisites:** grad st; Ed Psy 724(P).

**Last Taught:** Spring 1986, Spring 1985, Spring 1984.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 829 Instrument Development**

3 cr. Graduate.

Students will develop an instrument to measure some psychological construct of research interest. Topics include construct development, test and item specifications, item writing, conducting reliability and validity studies.

**Prerequisites:** grad st; Ed Psy 724(P).

**Last Taught:** Fall 2011, Fall 2009, Fall 2007, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 831 Cognition: Theory and Research**

3 cr. Graduate.

A detailed look at cognitive theory and research underlying learning and instruction. Aimed at students who expect to use some aspect of cognitive theory in their research.

**Prerequisites:** grad st; Ed Psy 631(P), 731(P) or course in human verbal learning.

**Last Taught:** Fall 2004, Fall 2002, Spring 2001, Fall 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 832 Theory of Hierarchical Linear Modeling**

3 cr. Graduate.

Theories and applications of the statistical techniques for analyzing multilevel data in which individuals are nested within clusters or repeated measures are nested within individuals.

**Prerequisites:** grad st; Ed Psy 820(P) or cons instr.

**Last Taught:** Spring 2020, Spring 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 833 Social Psychology of Group Differences: Race and Ethnicity**

3 cr. Graduate.

Social psychological research and theory concerning race, ethnicity and racial and ethnic relations in American society with applications to a variety of educational situations.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 834 The Psychology of Achievement Motivation**

3 cr. Graduate.

Review of research on personality factors that influence achievement motivation. Designed for those interested in incorporating aspects of motivation theory into their research.

**Prerequisites:** grad st; Ed Psy 734(P) or cons instr.

**Last Taught:** Spring 2008, Spring 2007, Spring 2005, Spring 1997.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 838 Research Practicum in Educational Psychology**

3 cr. Graduate.

Supervised research practicum, strategies for dissertation writing process and presentation.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 12 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 840 Theory and Issues in Human Development**

3 cr. Graduate.

Study of theory, experimental design, and research in human development.

**Prerequisites:** grad st; Ed Psy 640(P).

**Last Taught:** Fall 2023, Spring 2019, Spring 2016, Spring 1993.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 844 The Multicultural Family**

3 cr. Graduate.

Course examines theory and research for studying development in the family context as it applies to ethnic minority groups in the u.s.

**Prerequisites:** grad st; Ed Psy 640(P).

**Last Taught:** Fall 2020, Fall 2018, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 845 Immigrant Child in Developmental Perspective**

3 cr. Graduate.

Examines immigrant children and families from a developmental perspective. Focus on current issues in theory and research on the study of immigrant children.

**Prerequisites:** grad st; Ed Psy 640 (P)

**Last Taught:** Fall 2021, Fall 2019, Fall 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 850 Objective Personality Assessment**

3 cr. Graduate.

Objective diagnostic techniques used in the personality assessment of school-age populations.

**Prerequisites:** grad st, Ed Psy 755 & 756. Course in behavior disorders of children or in abnormal psychology recom.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 851 Assessment and Interventions: Personality, Social and Emotional Functioning**

3 cr. Graduate.

Introduction to school psychology practices of assessment and interventions for psychological, social, and emotional functioning of children and adolescents. Didactic and clinical experiences included.

**Prerequisites:** ED PSY 742, ED PSY 752, and written consent of instructor.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 852 Social, Psychological, and Biological Basis of Learning Disorders**

3 cr. Graduate.

Current assessment and intervention in the approaches to learning and emotional difficulties. Includes social, psychological, cultural, educational, and biological factors affecting children and adolescents.

**Prerequisites:** grad st; Ed Psy 751 or Couns 710 or equiv.

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 853 Biological Basis of Childhood Disorders**

3 cr. Graduate.

Current theory, research, and clinical findings in the biological basis of childhood disorders. Neurodevelopmental assessment and implications for intervention with cognitive behavioral, and psychosocial disorders.

**Prerequisites:** grad st; Ed Psy 755 or cons instr.

**Last Taught:** Summer 2005, Summer 2002, Fall 1999, Summer 1997.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 879 Current Topics in Educational Psychology:**

1-3 cr. Graduate.

Specific topic announced in schedule of classes each time course is offered; any additional prerequisites are included in announcement.

**Prerequisites:** grad st.

**Course Rules:** May be repeated with change in topic to max of 9 cr.

**Last Taught:** Fall 1991.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 880 Proseminar in Urban Education: Educational Psychology**

2 cr. Graduate.

An examination of selected problems and issues in urban education.

**Prerequisites:** grad st; admis to urban educ doctoral prog.

**Last Taught:** Spring 1985, Fall 1984, Spring 1984.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Summer 2022, Summer 2019, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 922 Seminar in Measurement and Evaluation:**

3 cr. Graduate.

Specific topic and any additional prerequisites are announced in Timetable each time course is offered.

**Prerequisites:** grad st & cons instr.

**Course Rules:** May be repeated with change in topic to max of 9 cr.

**Last Taught:** Fall 2003, Fall 2001, Fall 1995, Fall 1992.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 929 Seminar in Statistics and Research Design**

3 cr. Graduate.

Specific topic and any prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** grad st; cons instr.

**Course Rules:** May be repeated with change in topic to max of 9 cr.

**Last Taught:** Spring 2011, Spring 1996, Fall 1990, Spring 1990.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 939 Seminar in Human Learning**

3 cr. Graduate.

Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** grad st; cons instr.

**Course Rules:** May be repeated with change in topic to max of 9 cr.

**Last Taught:** Spring 1990.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 949 Seminar in Human Development:**

3 cr. Graduate.

Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** grad st; cons instr.

**Course Rules:** May be repeated with change in topic to max of 9 cr.

**Last Taught:** Spring 1999, Fall 1997, Spring 1996, Spring 1992.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 952 Pediatric Psychology in Urban Settings**

3 cr. Graduate.

Theory, research and clinical practice addressing the mental health needs of children in urban settings. Risk and protective factors are explored within a resiliency framework.

**Prerequisites:** Ed Psy 752(R), Ed Psy 755(R) or cons instr.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 955 Advanced Therapeutic Interventions**

3 cr. Graduate.

Develop theoretical understanding and competencies related to advance-level prevention and intervention work, including group prevention and intervention and family intervention.

**Prerequisites:** grad st, writ cons instr, Ed Psy 732 or equiv.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 959 Seminar in School Psychology:**

3 cr. Graduate.

Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** May be repeated with change in topic to max of 9 cr.

**Last Taught:** Summer 2023, Summer 2022, Fall 2016, Summer 1996.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 960 Evidence-Based Practices in School Psychology: Prevention & Intervention**

3 cr. Graduate.

Evidence-based practices for school psychologists and other professionals working in school and clinic settings.

**Prerequisites:** grad st.

**Last Taught:** Spring 2017, Spring 2013, Spring 2011, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 974 Beginning Practicum in School Psychology**

1-6 cr. Graduate.

Supervised practice in schools or institutions. Practical experience in assessment, intervention, consultation, and school-wide practices.

**Prerequisites:** graduate standing, enrollment in the School Psychology program, and consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 975 Advanced Practicum in School Psychology**

3-9 cr. Graduate.

Advanced psycho-diagnostic practice in schools, clinics or institutions under supervision of a psychologist.

**Prerequisites:** grad st; Ed Psy 974; writ cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 976 MS Internship in School Psychology**

1-6 cr. Graduate.

Provides opportunity for masters students to acquire advanced clinical skills in consultation, interventions, and psychological assessment. Supervised experiences in schools.

**Prerequisites:** graduate standing; completion of all course requirements for School Psychology certification; written consent of instructor.

**Course Rules:** Repeatable to 12 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 977 Advanced Practicum in Intervention**

1-3 cr. Graduate.

Training in the design, implementation, and evaluation of therapeutic assessments and interventions.

**Prerequisites:** grad st; Ed Psy 732 or equiv.

**Course Rules:** Sat/Unsat grade only. Retakable to 6 cr max.

**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 978 Advanced Practicum in Supervision**

1-3 cr. Graduate.

Didactic and experiential training in supervision in school psychology.

**Prerequisites:** grad st; Ed Psy 732 or equiv.

**Course Rules:** Re-takeable up to 6 credits.

**Last Taught:** Fall 2023, Spring 2022, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 986 Doctoral Internship in School Psychology**

3-6 cr. Graduate.

Provides opportunity for doctoral students to acquire advanced clinical skills in consultation, intervention, and assessment practices. Supervised experiences in school, mental health, and medical setting.

**Prerequisites:** grad st; writ cons instr; admis to Urban Educ doctoral prog & identification of specific specialization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 990 Research or Thesis**

1-3 cr. Graduate.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ED PSY 999 Independent Reading**

1-3 cr. Graduate.

For doctoral students unable to secure needed content in regular courses.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Fall 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Electrical Engineering (ELECENG)

**ELECENG 101 Fundamentals of Electrical Engineering**

3 cr. Undergraduate.

Principles of electrical engineering including intro to fundamental electrical quantities and circuit analysis. Lab with reenforcing experiments, introduction to electrical test equipment, computer simulation techniques, and team project.

**Prerequisites:** MATH 116(C).

**Course Rules:** Counts as repeat of ELECENG 299 with same topic. Not open to students who have completed ELECENG 301.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 140 Intro to Embedded Computing I: Digital Logic and Microprocessors**

3 cr. Undergraduate.

Explores the foundations of computing and programming in terms of the bits and gates that carry out computations. A module on Matlab is included.

**Prerequisites:** MATH 116(P) or MATH 231(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 150 Electronic Technology in the World Around Us**

3 cr. Undergraduate.

An introductory course that explains the modern technology affecting our everyday life. Topics include: digital communication, satellites, television, stereo system, computer, radar, microwaves, lasers.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** Fall 2019, Spring 2019, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 234 Analytical Methods in Engineering**

4 cr. Undergraduate.

Mathematical techniques for linear systems. Solutions of ordinary differential equations by classical and transform techniques. Elementary aspects of linear algebra. Complex Numbers.

**Prerequisites:** a grade of C or better in MATH 232(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 240 Intro to Embedded Computing II: C Programming for Embedded Applications**

4 cr. Undergraduate.

Introduction to C programming with a focus on how programming constructs of the C language are realized in a model computer. Student programming is done on an industrial development board.

**Prerequisites:** ELECENG 140(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 299 Topics in Electrical Engineering:**

1-3 cr. Undergraduate.

Work on new material in electrical engineering. Section title and credits announced whenever course is offered.

**Prerequisites:** specific courses dependent on topic.**Course Rules:** May be retaken with change in topic to max of 6 cr max.**Last Taught:** Fall 2011, Fall 2010, Fall 2005, Fall 1998.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 301 Electrical Circuits I**

3 cr. Undergraduate.

Circuit laws and analysis, resistive circuits, energy storage, AC circuits and power, three-phase circuits, computer-aided analysis.

**Prerequisites:** PHYSICS 210(C) or PHYSICS 220(C).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 305 Electrical Circuits II**

4 cr. Undergraduate.

Transformers, transient response, network functions, s-domain, response, filters, fourier analysis, two-ports.

**Prerequisites:** ELECENG 234(P) and ELECENG 301(P).**Course Rules:** 3 hr lec/2 hr lab.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 306 Introduction to Electrical Engineering**

4 cr. Undergraduate.

An introduction to electrical circuits with laboratory. Topics include dc and ac circuits, signal transients, motors, transformers and operational amplifiers.

**Prerequisites:** PHYSICS 210(P); ELECENG 234(P).**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 310 Signals and Systems**

3 cr. Undergraduate.

Analysis techniques for signals and systems in both continuous and discrete time. Signal representation, including fourier and laplace transforms; system definitions and properties.

**Prerequisites:** ELECENG 234(P) and ELECENG 301(P); or graduate standing; or special student.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 330 Electronics I**

4 cr. Undergraduate.

Op-amps, diodes, bipolar junction transistors, mos field effect circuit applications.

**Prerequisites:** ELECENG 234(P) and ELECENG 301(P); or graduate standing.**Course Rules:** Counts as repeat of ELECENG 331.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 335 Electronics II**

4 cr. Undergraduate.

CMOS Logic Gates, Differential and multistage amplifiers, IC techniques, frequency response.

**Prerequisites:** ELECENG 330(P) and ELECENG 310(C).**Course Rules:** Counts as repeat of ELECENG 332.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 340 Embedded Systems I: C and C++ Programming for Embedded Applications**

3 cr. Undergraduate.

Realizing embedded applications with specific hardware requirements, including digital I/O, analog I/O, precision timing, serial and wireless communications; project design and execution; C and C++ programming.

**Prerequisites:** ELECENG 240(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 354 Digital Logic**

3 cr. Undergraduate.

Number systems and binary codes; Boolean Algebra and basic results; switching functions; minimization techniques; analysis and design of combinational and sequential logic circuits.

**Prerequisites:** COMPSCI 240(P) or COMPSCI 250(P).**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 361 Electromagnetic Fields**

3 cr. Undergraduate.

Principles of electrostatics and electromagnetics; laws of fields; resistance, inductance, and capacitance; dielectrics; energy storage; Maxwell's field equation.

**Prerequisites:** PHYSICS 210(P) and PHYSICS 215(P) or PHYSICS 220(P); ELECENG 234(P), and MATH 233(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 362 Electromechanical Energy Conversion**

4 cr. Undergraduate.

Principles of electrical and electromechanical energy conversion; transformers, polyphase induction and synchronous machines, d.c. machines, single phase motors, including design parameters and testing.

**Prerequisites:** ELECENG 234(P) and ELECENG 301(P); or graduate standing. Special students must satisfy course prerequisites.**Course Rules:** 3 hr lec recitation and 2 hr lab per week.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 367 Introduction to Microprocessors**

4 cr. Undergraduate.

Fundamentals of microprocessors, including assembly language programming, hardware design, interfacing peripherals and programmable I/O devices, and social/ethical issues in engineering design and practice. Lab.

**Prerequisites:** COMPSCI 240(P) or COMPSCI 250(P); and a grade of C or better in ELECENG 354(P).

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 410 Digital Signal Processing**

3 cr. Undergraduate/Graduate.

Spectral computation including DFT and FFT, sampling of continuous signals, digital filter design including FIR and IIR filters.

**Prerequisites:** junior standing and ELECENG 310(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 410G Digital Signal Processing**

3 cr. Undergraduate/Graduate.

Spectral computation including DFT and FFT, sampling of continuous signals, digital filter design including FIR and IIR filters.

**Prerequisites:** junior standing and ELECENG 310(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 411 Machine Learning and Applications**

3 cr. Undergraduate/Graduate.

Important topics and application in machine learning, including deep learning. Provides hands-on experience with machine learning software and libraries.

**Prerequisites:** completion of one of the following: COMPSCI 202(P), COMPSCI 241(P), or COMPSCI 250(P); or consent of instructor.

**Course Rules:** COMPSCI 411 and ELECENG 411 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 411G Machine Learning and Applications**

3 cr. Undergraduate/Graduate.

Important topics and application in machine learning, including deep learning. Provides hands-on experience with machine learning software and libraries.

**Prerequisites:** completion of one of the following: COMPSCI 202(P), COMPSCI 241(P), or COMPSCI 250(P); or consent of instructor.

**Course Rules:** COMPSCI 411 and ELECENG 411 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 420 Random Signals and Systems**

3 cr. Undergraduate/Graduate.

Fundamental probability and random process theory, power spectral density. Linear systems and random signals, auto- and cross-correlation, optimum MSE filter design.

**Prerequisites:** junior standing and ELECENG 310(P); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 420G Random Signals and Systems**

3 cr. Undergraduate/Graduate.

Fundamental probability and random process theory, power spectral density. Linear systems and random signals, auto- and cross-correlation, optimum MSE filter design.

**Prerequisites:** junior standing and ELECENG 310(P); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 421 Communication Systems**

3 cr. Undergraduate/Graduate.

Basic concepts of information; modulation, transmission and demodulation; presentation of information; practical communication systems.

**Prerequisites:** junior standing and ELECENG 335(C).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 421G Communication Systems**

3 cr. Undergraduate/Graduate.

Basic concepts of information; modulation, transmission and demodulation; presentation of information; practical communication systems.

**Prerequisites:** junior standing and ELECENG 335(C).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 430 Energy Modeling**

3 cr. Undergraduate/Graduate.

Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** ELECENG 430 and MECHENG 430 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 430G Energy Modeling**

3 cr. Undergraduate/Graduate.

Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** ELECENG 430 and MECHENG 430 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 436 Introduction to Medical Instrumentation**

3 cr. Undergraduate/Graduate.

Biopotential signals and electrodes; Biopotential Amplifiers and Signal Processing; Sensors, Detectors, and Sources; Electrical Safety; Specifications; Error Analysis; Device Approval Process.

**Prerequisites:** junior standing and ELECENG 305(P) or equivalent.

**Last Taught:** Fall 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 436G Introduction to Medical Instrumentation**

3 cr. Undergraduate/Graduate.

Biopotential signals and electrodes; Biopotential Amplifiers and Signal Processing; Sensors, Detectors, and Sources; Electrical Safety; Specifications; Error Analysis; Device Approval Process.

**Prerequisites:** junior standing and ELECENG 305(P) or equivalent.

**Last Taught:** Fall 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 437 Introduction to Biomedical Imaging**

3 cr. Undergraduate/Graduate.

Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.

**Prerequisites:** senior standing; completion of BME 310(P) or ELECENG 310(P).

**Course Rules:** BME 437/ELECENG 437 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 437G Introduction to Biomedical Imaging**

3 cr. Undergraduate/Graduate.

Biomedical imaging modalities and underlying principles: X-radiography, computerized tomography, Radon transforms; image reconstruction techniques; ultrasonic imaging; nuclear medicine; magnetic resonance imaging; experimental techniques.

**Prerequisites:** senior standing; completion of BME 310(P) or ELECENG 310(P).

**Course Rules:** BME 437/ELECENG 437 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 439 Introduction to Biomedical Optics**

3 cr. Undergraduate/Graduate.

Tissue Optical Properties, Light Transport, Fourier Transforms in Spatial Domain, Wave theory, Spectroscopy, Optical imaging, Laser-Tissue interaction, Photoconversion, Photodynamic Therapy, Microscopy, Fluorescence imaging, and OCT.

**Prerequisites:** senior standing; ELECENG 310(P) or BME 310 (P).

**Course Rules:** BME 439/ELECENG 439 are jointly offered and count as repeats of each other.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 439G Introduction to Biomedical Optics**

3 cr. Undergraduate/Graduate.

Tissue Optical Properties, Light Transport, Fourier Transforms in Spatial Domain, Wave theory, Spectroscopy, Optical imaging, Laser-Tissue interaction, Photoconversion, Photodynamic Therapy, Microscopy, Fluorescence imaging, and OCT.

**Prerequisites:** senior standing; ELECENG 310(P) or BME 310 (P).

**Course Rules:** BME 439/ELECENG 439 are jointly offered and count as repeats of each other.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 440 Embedded Systems II: Advanced Embedded Systems**

3 cr. Undergraduate.

Real time operating systems for embedded microcontroller systems; implementation of multitasking, synchronization and protection; major project.

**Prerequisites:** ELECENG 340(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 451 Introduction to VLSI Design**

3 cr. Undergraduate/Graduate.

Introduction to design of VLSI circuits. Ic fundamentals including: energy band diagrams, transistor optimization, design approaches including both customs and semi-custom.

**Prerequisites:** junior standing, ELECENG 330(P), and ELECENG 354(P).

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 451G Introduction to VLSI Design**

3 cr. Undergraduate/Graduate.

Introduction to design of VLSI circuits. Ic fundamentals including: energy band diagrams, transistor optimization, design approaches including both customs and semi-custom.

**Prerequisites:** junior standing, ELECENG 330(P), and ELECENG 354(P).

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 457 Digital Logic Laboratory**

3 cr. Undergraduate/Graduate.

Digital design using a hardware description language and FPGAs. Topics include VHDL, Design Methodologies, Finite State Machines, Multiple clock domains, Timing Analysis, Simulation and Verification.

**Prerequisites:** junior standing and ELECENG 354(P).

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 457G Digital Logic Laboratory**

3 cr. Undergraduate/Graduate.

Digital design using a hardware description language and FPGAs. Topics include VHDL, Design Methodologies, Finite State Machines, Multiple clock domains, Timing Analysis, Simulation and Verification.

**Prerequisites:** junior standing and ELECENG 354(P).

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 458 Computer Architecture**

3 cr. Undergraduate/Graduate.

Processor organization, memory hierarchy, pipelining, computer architectures exploiting instruction/data/thread level parallelism, warehouse scale computers.

**Prerequisites:** sophomore standing and a grade of C or better in COMPSCI 241 (P) or COMPSCI 251 (P).

**Course Rules:** COMPSCI 458 and ELECENG 458 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 458G Computer Architecture**

3 cr. Undergraduate/Graduate.

Processor organization, memory hierarchy, pipelining, computer architectures exploiting instruction/data/thread level parallelism, warehouse scale computers.

**Prerequisites:** sophomore standing and a grade of C or better in COMPSCI 241 (P) or COMPSCI 251 (P).

**Course Rules:** COMPSCI 458 and ELECENG 458 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ELECENG 461 Microwave Engineering**

3 cr. Undergraduate/Graduate.

Review from electromagnetics, transmission lines and waveguides; impedance matching, passive components, stripline and microstrip line circuits, dielectric waveguide, laboratory experiments, industrial and biomedical applications.

**Prerequisites:** junior standing and ELECENG 361(P) or equivalent.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 461G Microwave Engineering**

3 cr. Undergraduate/Graduate.

Review from electromagnetics, transmission lines and waveguides; impedance matching, passive components, stripline and microstrip line circuits, dielectric waveguide, laboratory experiments, industrial and biomedical applications.

**Prerequisites:** junior standing and ELECENG 361(P) or equivalent.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 462 Antenna Theory**

3 cr. Undergraduate/Graduate.

Analysis and design of antennas: antenna fundamentals; wire antennas; dipole, monopole, and loop antennas; antenna arrays; aperture antennas; horn, slot, and parabolic dish antennas.

**Prerequisites:** junior standing and ELECENG 361(P).

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 462G Antenna Theory**

3 cr. Undergraduate/Graduate.

Analysis and design of antennas: antenna fundamentals; wire antennas; dipole, monopole, and loop antennas; antenna arrays; aperture antennas; horn, slot, and parabolic dish antennas.

**Prerequisites:** junior standing and ELECENG 361(P).

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 464 Fundamentals of Photonics**

3 cr. Undergraduate/Graduate.

Fundamentals of ray, electromagnetic, and beam optics; polarization and polarization-based devices; optics of layered media; and guided-wave optics, including optical fibers.

**Prerequisites:** junior standing and ELECENG 361(P); or graduate standing.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 464G Fundamentals of Photonics**

3 cr. Undergraduate/Graduate.

Fundamentals of ray, electromagnetic, and beam optics; polarization and polarization-based devices; optics of layered media; and guided-wave optics, including optical fibers.

**Prerequisites:** junior standing and ELECENG 361(P); or graduate standing.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 465 Broadband Optical Networks**

3 cr. Undergraduate/Graduate.

Multichannel lightwave systems based on wavelength-division, time-division, and subcarrier multiplexing; optical devices and coding techniques for implementing optical networks.

**Prerequisites:** junior standing, ELECENG 305(P), and ELECENG 361(P); or graduate standing.

**Course Rules:** Counts as repeat of ELECENG 490 with the same topic.

**Last Taught:** Spring 2018, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 465G Broadband Optical Networks**

3 cr. Undergraduate/Graduate.

Multichannel lightwave systems based on wavelength-division, time-division, and subcarrier multiplexing; optical devices and coding techniques for implementing optical networks.

**Prerequisites:** junior standing, ELECENG 305(P), and ELECENG 361(P); or graduate standing.

**Course Rules:** Counts as repeat of ELECENG 490 with the same topic.

**Last Taught:** Spring 2018, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 471 Electric Power Systems**

3 cr. Undergraduate/Graduate.

Elements of a typical power system. Per-unit quantities; load flow study; economic dispatch; symmetrical components; fault study; system protection; stability.

**Prerequisites:** junior standing and ELECENG 362(C).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 471G Electric Power Systems**

3 cr. Undergraduate/Graduate.

Elements of a typical power system. Per-unit quantities; load flow study; economic dispatch; symmetrical components; fault study; system protection; stability.

**Prerequisites:** junior standing and ELECENG 362(C).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 472 Introduction to Wind Energy**

3 cr. Undergraduate/Graduate.

Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** ELECENG 472 and MECHENG 472 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 472G Introduction to Wind Energy**

3 cr. Undergraduate/Graduate.

Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** ELECENG 472 and MECHENG 472 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 474 Introduction to Control Systems**

4 cr. Undergraduate/Graduate.

Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.

**Prerequisites:** junior standing; ELECENG 310(P), and COMPSC 240(P); or graduate standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 474G Introduction to Control Systems**

4 cr. Undergraduate/Graduate.

Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.

**Prerequisites:** junior standing; ELECENG 310(P), and COMPSC 240(P); or graduate standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 481 Electronic Materials**

3 cr. Undergraduate/Graduate.

Modern principles of semiconductor fabrication, crystals, electrical and thermal conductivity phenomena, band gap and structure, doping effects, dielectric and optical properties, semiconductor homo and hetero-junctions, solar cells, thermo-electric materials; with projects.

**Prerequisites:** junior standing and PHYSICS 210(P) or PHYSICS 220(P); or consent of instructor.**Course Rules:** MATLENG 481 and ELECENG 481 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 481G Electronic Materials**

3 cr. Undergraduate/Graduate.

Modern principles of semiconductor fabrication, crystals, electrical and thermal conductivity phenomena, band gap and structure, doping effects, dielectric and optical properties, semiconductor homo and hetero-junctions, solar cells, thermo-electric materials; with projects.

**Prerequisites:** junior standing and PHYSICS 210(P) or PHYSICS 220(P); or consent of instructor.**Course Rules:** MATLENG 481 and ELECENG 481 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 482 Introduction to Nanoelectronics**

3 cr. Undergraduate/Graduate.

Wave properties of electrons, diffraction, Schrödinger's equation, quantum confinement, band theory, tunnel junctions, Coulomb blockade, quantum dots and wires, quantum conductance and ballistic transport.

**Prerequisites:** junior standing, ELECENG 330(C), and ELECENG 361(C).**Last Taught:** Fall 2016, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 482G Introduction to Nanoelectronics**

3 cr. Undergraduate/Graduate.

Wave properties of electrons, diffraction, Schrödinger's equation, quantum confinement, band theory, tunnel junctions, Coulomb blockade, quantum dots and wires, quantum conductance and ballistic transport.

**Prerequisites:** junior standing, ELECENG 330(C), and ELECENG 361(C).**Last Taught:** Fall 2016, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 490 Topics in Electrical Engineering:**

1-3 cr. Undergraduate/Graduate.

Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 490G Topics in Electrical Engineering:**

1-3 cr. Undergraduate/Graduate.

Specific topics, credits, and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 541 Integrated Circuits and Systems**

3 cr. Undergraduate/Graduate.

Differential and operational amplifier circuits. Linear integrated circuits: comparators, regulators, amplifiers and phase locked loops. Digital integrated circuits: mos shift registers, ram, a-to-d converters.

**Prerequisites:** junior standing and ELECENG 330(P); or graduate standing.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 541G Integrated Circuits and Systems**

3 cr. Undergraduate/Graduate.

Differential and operational amplifier circuits. Linear integrated circuits: comparators, regulators, amplifiers and phase locked loops. Digital integrated circuits: mos shift registers, ram, a-to-d converters.

**Prerequisites:** junior standing and ELECENG 330(P); or graduate standing.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 545 FPGA Embedded CPUs & Firmware Development**

3 cr. Undergraduate/Graduate.

Use of modern embedded system central processor units (CPUs) with integrated field-programmable gate arrays (FPGAs). Design and implementation of firmware for these devices.

**Prerequisites:** junior standing, ELECENG 367(P) and ELECENG 457(P).**Course Rules:** COMPSCI 545 and ELECENG 545 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 545G FPGA Embedded CPUs & Firmware Development**

3 cr. Undergraduate/Graduate.

Use of modern embedded system central processor units (CPUs) with integrated field-programmable gate arrays (FPGAs). Design and implementation of firmware for these devices.

**Prerequisites:** junior standing, ELECENG 367(P) and ELECENG 457(P).**Course Rules:** COMPSCI 545 and ELECENG 545 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 562 Telecommunication Circuits**

3 cr. Undergraduate/Graduate.

Radio frequency communication systems, terrestrial and satellite communication systems, mixers, oscillators, filters, design considerations for receivers and transmitters.

**Prerequisites:** senior standing and ELECENG 330(P); or graduate standing.

**Last Taught:** Fall 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 562G Telecommunication Circuits**

3 cr. Undergraduate/Graduate.

Radio frequency communication systems, terrestrial and satellite communication systems, mixers, oscillators, filters, design considerations for receivers and transmitters.

**Prerequisites:** senior standing and ELECENG 330(P); or graduate standing.

**Last Taught:** Fall 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 565 Optical Communication**

3 cr. Undergraduate/Graduate.

Overview of communication systems, light and electromagnetic waves, optical fibers, lasers, led, photodetectors, receivers, optical fiber communication systems.

**Prerequisites:** senior standing, ELECENG 361(P), and ELECENG 330(P) or ELECENG 465(P); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 565G Optical Communication**

3 cr. Undergraduate/Graduate.

Overview of communication systems, light and electromagnetic waves, optical fibers, lasers, led, photodetectors, receivers, optical fiber communication systems.

**Prerequisites:** senior standing, ELECENG 361(P), and ELECENG 330(P) or ELECENG 465(P); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 568 Applications of Digital Signal Processing**

3 cr. Undergraduate/Graduate.

Introduction to the use of modern digital signal processor (DSP) units in DSP applications such as digital filtering and speech signal processing.

**Prerequisites:** ELECENG 310(P) and ELECENG 367(P); or graduate standing.

**Course Rules:** Counts as repeat of ELECENG 490 and ELECENG 890 with similar topic;

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 568G Applications of Digital Signal Processing**

3 cr. Undergraduate/Graduate.

Introduction to the use of modern digital signal processor (DSP) units in DSP applications such as digital filtering and speech signal processing.

**Prerequisites:** ELECENG 310(P) and ELECENG 367(P); or graduate standing.

**Course Rules:** Counts as repeat of ELECENG 490 and ELECENG 890 with similar topic;

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 572 Power Electronics**

3 cr. Undergraduate/Graduate.

Power diodes and transistors; static converters; D.C. power supplies; power transistor circuits; SCR's; classical and modern forced-commutation inverters; choppers; cycloconverters, applications in power.

**Prerequisites:** senior standing and ELECENG 335(C); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 572G Power Electronics**

3 cr. Undergraduate/Graduate.

Power diodes and transistors; static converters; D.C. power supplies; power transistor circuits; SCR's; classical and modern forced-commutation inverters; choppers; cycloconverters, applications in power.

**Prerequisites:** senior standing and ELECENG 335(C); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 574 Intermediate Control Systems**

3 cr. Undergraduate/Graduate.

State space; frequency domain methods of modelling, analysis and design of control systems; digital control; and multivariate systems.

**Prerequisites:** senior standing and MECHENG 474(P) or ELECENG 474(P); or graduate standing.

**Course Rules:** ELECENG 574 and MECHENG 574 are jointly offered and count as repeats of each other. Not open for cr to students who have cr in ELECENG 503 or MECHENG 478.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 574G Intermediate Control Systems**

3 cr. Undergraduate/Graduate.

State space; frequency domain methods of modelling, analysis and design of control systems; digital control; and multivariate systems.

**Prerequisites:** senior standing and MECHENG 474(P) or ELECENG 474(P); or graduate standing.

**Course Rules:** ELECENG 574 and MECHENG 574 are jointly offered and count as repeats of each other. Not open for cr to students who have cr in ELECENG 503 or MECHENG 478.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 575 Analysis of Electric Machines and Motor Drives**

3 cr. Undergraduate/Graduate.

Reference frame analysis, computer simulation, permanent magnet synchronous machines, induction machines, power electronic inverters, pulsewidth modulation, vector control.

**Prerequisites:** junior standing, ELECENG 330(P) and ELECENG 362(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 575G Analysis of Electric Machines and Motor Drives**

3 cr. Undergraduate/Graduate.

Reference frame analysis, computer simulation, permanent magnet synchronous machines, induction machines, power electronic inverters, pulsewidth modulation, vector control.

**Prerequisites:** junior standing, ELECENG 330(P) and ELECENG 362(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 588 Fundamentals of Nanotechnology**

3 cr. Undergraduate/Graduate.

Nanofabrication, self-assembly, principles of scanning tunneling/atomic force microscopy, operators, energy quantization; density of states, quantum dots, nanowires, carbon nanotubes: electronic properties and applications.

**Prerequisites:** junior standing; non-Electrical Engineering major; and ELECENG 361(P) or equivalent.

**Last Taught:** Fall 2014, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 588G Fundamentals of Nanotechnology**

3 cr. Undergraduate/Graduate.

Nanofabrication, self-assembly, principles of scanning tunneling/atomic force microscopy, operators, energy quantization; density of states, quantum dots, nanowires, carbon nanotubes: electronic properties and applications.

**Prerequisites:** junior standing; non-Electrical Engineering major; and ELECENG 361(P) or equivalent.

**Last Taught:** Fall 2014, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 595 Capstone Design Project**

5 cr. Undergraduate.

Team project in simulated industrial environment. Each team develops solutions to complex real world design problems and reports results in professional writing and oral presentation.

**Prerequisites:** senior standing; ELECENG 335(P) and ELECENG 367(P).

**Course Rules:** Counts as repeat of ELECENG 355.

**Last Taught:** Spring 2022, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 596 Capstone Design I**

3 cr. Undergraduate.

Introduction to a real-world design process and team project in a simulated industrial environment. Each team develops solutions to complex real-world design problems and reports results in a professional oral slide presentation.

**Prerequisites:** senior standing and ELECENG 335(C) or ELECENG 440(C) or ELECENG 362(C).

**Course Rules:** Counts as a repeat of ELECENG 595.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 597 Capstone Design II**

2 cr. Undergraduate.

Introduction to a real-world design process and team project in a simulated industrial environment. Each team realizes and demonstrates a project prototype and reports results in a professionally written report.

**Prerequisites:** senior standing, ELECENG 335(P) or ELECENG 362(P) or ELECENG 440(P), and ELECENG 596(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 599 Senior Thesis**

1-3 cr. Undergraduate.

Independent research under the direction of a faculty member; submission of a written thesis is required. 3 cr total required.

**Prerequisites:** senior standing and consent of instructor.

**Course Rules:** May be retaken to max of 3 cr.

**Last Taught:** Fall 2020, Fall 2014, Spring 2014, Spring 1997.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 699 Independent Study**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** junior standing and consent of instructor; or graduate standing and consent of instructor.

**Course Rules:** May be retaken to max of 6 cr toward the undergraduate degree.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 699G Independent Study**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** junior standing and consent of instructor; or graduate standing and consent of instructor.

**Course Rules:** May be retaken to max of 6 cr toward the undergraduate degree.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 700 CEAS Graduate Seminar**

1-3 cr. Graduate.

Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.

**Prerequisites:** graduate standing.

**Course Rules:** CV ENG 700, COMPSCI 700, ELECENG 700, IND ENG 700, MATLENG 700 and MECHENG 700 are jointly offered and count as repeats of one another

**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 701 Advanced Linear System Analysis**

3 cr. Graduate.

Theory and analysis of linear dynamic systems; discrete and continuous state models; linear algebra for dynamic systems; state transition matrix, numerical methods; and applications.

**Prerequisites:** graduate standing.

**Course Rules:** ELECENG 701 and MECHENG 701 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 710 Artificial Intelligence**

3 cr. Graduate.

AI programming, search techniques game playing, knowledge representation, knowledge acquisition, expert systems, selected topics from learning. Natural language understanding, vision and robotics.

**Prerequisites:** graduate standing, COMPSCI 351 or COMPST 751, and COMPSCI 535(P).

**Course Rules:** COMPSCI 710 and ELECENG 710 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2019, Spring 2016, Fall 2014, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 711 Introduction to Machine Learning**

3 cr. Graduate.

Introduction to machine learning techniques and applications, including optimal classification, regression, support vector machines, boosting, deep learning, and clustering.

**Prerequisites:** graduate standing.**Course Rules:** COMPSCI 711 and ELECENG 711 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 712 Image Processing**

3 cr. Graduate.

This course covers the materials required to process and enhance photographic images, remote sensor multispectral scanner data and others. Topics include transform techniques, recorders, discriminate function, and associated hardware.

**Prerequisites:** graduate standing.**Course Rules:** COMPSCI 712 and ELECENG 712 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 716 Tomography: Imaging and Image Reconstruction**

3 cr. Graduate.

In-depth examination of the fundamentals of tomographic imaging and tomographic image reconstruction algorithms.

**Prerequisites:** graduate standing, ELECENG 410(P) and ELECENG 420(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 717 Tomography: Image Quality and Artifact Correction**

3 cr. Graduate.

In depth study of the factors affecting tomographic image quality. State-of-the-art techniques and practices for artifact correction.

**Prerequisites:** graduate standing and ELECENG 716(P).**Last Taught:** Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 718 Nonlinear Control Systems**

3 cr. Graduate.

Advanced concepts and methodologies in modeling and design of nonlinear control systems. Lyapunov theory; describing functions; variable structure control.

**Prerequisites:** graduate standing, ELECENG 474(P) or MECHENG 474(P) or equivalent; ELECENG 701(P) or MECHENG 701(P); or consent of instructor.**Course Rules:** ELECENG 718 and MECHENG 718 are jointly offered and count as repeats of one another. Not open for credit to students with credit in MECHENG 778.**Last Taught:** Fall 2021, Fall 2016, Fall 2010, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 721 Digital Communications**

3 cr. Graduate.

Fundamentals of design and analysis of digital communication systems in the presence of noise; application of satellite, phone, and computer communication systems.

**Prerequisites:** graduate standing and ELECENG 421(P); or graduate standing.**Last Taught:** Spring 2011, Fall 2009, Fall 2007, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 733 Sensors and Systems**

3 cr. Graduate.

Physical principles and working of sensors, interfacing, and sensor networks.

**Prerequisites:** graduate standing and ELECENG 305(P) or consent of instructor.**Course Rules:** BME 733, ELECENG 733, and MECHENG 733 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 737 Medical Imaging Signals and Systems**

3 cr. Graduate.

Medical imaging physics; physical parameters of imaging systems; imaging system models; physical measurements; image reconstruction; image characteristics; biomedical applications.

**Prerequisites:** graduate standing, ELECENG 310(P) and PHYSICS 210(P); or consent of instructor.**Last Taught:** Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 741 Electromagnetic Fields and Waves**

3 cr. Graduate.

Propagation, radiation and scattering of electromagnetic waves and their applications in electrical engineering.

**Prerequisites:** graduate standing and ELECENG 361(P) or equivalent.**Last Taught:** Fall 2019, Fall 2013, Fall 2010, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 742 Electromagnetic Wave Theory**

3 cr. Graduate.

Electromagnetics of layered media and open waveguides; surface waves, radiation modes, and plasmons; asymptotic methods; Dyadic green's functions; integral equation methods

**Prerequisites:** graduate standing and ELECENG 361(P).**Last Taught:** Spring 2018, Fall 2015, Spring 2012, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 755 Information and Coding Theory**

3 cr. Graduate.

Information measures, entropy, source coding, Shannon's theorems, channel capacity, error correcting codes, linear codes, convolutional codes, arithmetic codes, encoding and decoding algorithms.

**Prerequisites:** graduate standing.**Course Rules:** COMPSCI 755 and ELECENG 755 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ELECENG 758 Advanced Computer Architecture**

3 cr. Graduate.

Advanced topics in computer architecture including pipeline processing, multiple and parallel processing systems, performance enhancement issues and vlsi computing structures.

**Prerequisites:** graduate standing and COMPSCI 458(NP) or ELECENG 458(NP).**Course Rules:** COMPSCI 758 and ELECENG 758 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 760 Computer Systems Performance Evaluation**

3 cr. Graduate.

Performance measurement and tools, workload characterization, markov models, queueing theory, simulation, benchmarks, data analysis, parallel systems performance analysis.

**Prerequisites:** graduate standing, COMPSC 458(P) or ELECENG 458(P).

**Course Rules:** COMPSCI 760 and ELECENG 760 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2017, Fall 2016, Fall 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 762 Fault-Tolerant Computing**

3 cr. Graduate.

Faults in digital circuits, fault detection, fault location, system reconfiguration or repair, system recovery, design for testability, self-checking circuits, fault-tolerant interconnection networks, systems level fault-diagnosis, fault-tolerant software.

**Prerequisites:** graduate standing and ELECENG 354(P).

**Course Rules:** Not open to students with cr for COMPSCI 762.

**Last Taught:** Spring 2002, Spring 2000, Spring 1992, Spring 1991.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 765 Introduction to Fourier Optics and Optical Signal Processing**

3 cr. Graduate.

Two dimensional linear systems, scalar diffraction theory, imaging properties of lenses, optical imaging systems, spatial filtering, wavefront reconstruction.

**Prerequisites:** graduate standing, ELECENG 310(P) and ELECENG 361(P).

**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 766 Introduction to Nonlinear Optics**

3 cr. Graduate.

Characteristics and efficiency of various nonlinear optical processes that find applications in communications, signal processing and computing.

Topics include optical switching devices, mixers and solitons.

**Prerequisites:** graduate standing and ELECENG 361(P).

**Last Taught:** Spring 2014, Fall 2011, Fall 2009, Spring 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 781 Advanced Synchronous Machinery**

3 cr. Graduate.

Machine construction, direct and quadrature axis reactances, steady state performance, unbalanced operating conditions, transient performance, motor starting, standards.

**Prerequisites:** graduate standing and ELECENG 362(P).

**Last Taught:** Fall 2023, Fall 2020, Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 810 Foundations for Advanced Machine Learning and Signal Processing**

3 cr. Graduate.

Detection, estimation, optimal filtering, monte carlo methods, Markov decision processes, machine learning and signal processing applications.

**Prerequisites:** graduate standing and ELECENG 420(P).

**Last Taught:** Spring 2015, Fall 2011, Spring 2010, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 811 Advanced Machine Learning**

3 cr. Graduate.

Advanced topics and applications in machine learning, including deep learning, recurrent neural networks, EM algorithm and clustering, reinforcement learning, Markov models and MCMC, and variational inference.

**Prerequisites:** ELECENG 711(P) or ELECENG 420(P) and COMPSCI 411(P); or consent of instructor.

**Course Rules:** COMPSCI 811 and ELECENG 811 are jointly offered and count as repeats of one another; they also count as a repeat of COMPSCI 890 or ELECENG 890 with similar topic 'Advanced Machine Learning'.

**Last Taught:** Fall 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 816 Optimal Control Theory**

3 cr. Graduate.

Analysis and synthesis of discrete and continuous optimal control systems; linear quadratic regulators; dynamic programming and variational methods; applications.

**Prerequisites:** graduate standing, ELECENG 474(P) or MECHENG 474(P) or equivalent, and ELECENG 701(P) or MECHENG 701(P); or consent of instructor.

**Course Rules:** ELECENG 816 and MECHENG 816 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2017, Spring 2011, Fall 2008, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 819 Adaptive Control Theory**

3 cr. Graduate.

Adaptive control systems including mathematical foundations, estimation, model reference adaptive control, self tuning regulators, numerical methods, applications.

**Prerequisites:** graduate standing, ELECENG 474(P) or MECHENG 474(P), and ELECENG 701(P) or MECHENG 701(P); or consent of instructor.

**Course Rules:** ELECENG 819 and MECHENG 819 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2018, Spring 2014, Spring 2009, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 872 Computer Analysis of Electric Power Systems**

3 cr. Graduate.

Graph theory, matrix algebra and numerical analysis applied to computer solution of power system problems; mathematical models; algorithms and solution techniques for load flow and fault studies.

**Prerequisites:** graduate standing and ELECENG 471(P).

**Last Taught:** Fall 2009, Spring 2007, Spring 2004, Spring 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 880 Bioengineering Seminar**

1 cr. Graduate.

Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.

**Prerequisites:** graduate standing.

**Course Rules:** CIV ENG 880, COMPSCI 880, ELECENG 880, IND ENG 880, MATLENG 880, and MECHENG 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr max.

**Last Taught:** Fall 2018, Spring 2018, Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2019, Summer 2019, Summer 2018, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 890 Special Topics:**

3 cr.

Lectures on special topics in electrical engineering.

**Prerequisites:** graduate standing.

**Course Rules:** May be repeated with change in topic to 9 cr max. Variable content course. Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 990 Masters Thesis**

1-9 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 998 Doctoral Thesis**

1-12 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor and graduate program committee.

**Course Rules:** Repeatable.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ELECENG 999 Advanced Independent Study**

1-3 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 15 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Engineering and Applied Science (EAS)

**EAS 1 Engineering Co-op Work Period**

1 cr. Undergraduate.

One semester work period in an industrial environment.

**Prerequisites:** prior consent of co-op director.

**Course Rules:** Considered full time for FA purposes. Credit/No Credit only. May be retaken but only 3 cr count toward graduation.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 100 CEAS Freshman Orientation**

1 cr. Undergraduate.

An introduction to problem solving in engineering and computer science.

**Prerequisites:** none.

**Course Rules:** Credit/No Credit grading option only.

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 110 Fundamentals of Smart Systems Engineering I**

2 cr. Undergraduate.

Electrical sources, resistance, Kirchhoff's laws, Resistive sensors, application, introduction to robotics, laboratory experiments and projects.

**Prerequisites:** MATH 115(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 200 Professional Seminar**

1 cr. Undergraduate.

Professional orientation and career planning. Current issues in the profession.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 210 Fundamentals of Smart Systems Engineering II**

2 cr. Undergraduate.

Electrical capacitance, inductance, simple circuit application, diodes, opamps, digital logic, microcontroller basics, laboratory experiments and projects.

**Prerequisites:** EAS 110(P).

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 290 Topics in Engineering and Applied Science:**

1-3 cr. Undergraduate.

Lectures on new introductory material in engineering and applied science. Variable-content course.

**Prerequisites:** specified in semester Schedule whenever required for topic.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 297 Study Abroad:**

1-5 cr. Undergraduate.

Designed to enroll students in UWM sponsored program. Course work, content, and credits determined at the time of offering.

**Prerequisites:** acceptance to Study Abroad Prog; cons CEAS assoc dean for academic prog.

**Course Rules:** Retakable with change in topic to 12 cr max.

**Last Taught:** Summer 2022, Spring 2022, Fall 2021, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 299 Independent Study**

1-3 cr. Undergraduate.

Independent study on a topic of choice. Credit hours to be arranged between student and staff on an individual basis.

**Prerequisites:** consent of instructor.

**Course Rules:** May be retaken for degree cr.

**Last Taught:** Spring 2019, Summer 2018, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 350 Senior Leadership Seminar**

1 cr. Undergraduate.

Elements of historical and modern social and professional leadership, preparing for a leadership position in industry, leadership and entrepreneurship, engineering management techniques.

**Prerequisites:** sr st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 490 Sustainable Design for Community Development**

3 cr. Undergraduate/Graduate.

Transdisciplinary students will work on sustainable projects and designs to address complex societal problems that require consideration of economy, environment, politics, and technology that leverage community-based knowledge.

**Prerequisites:** junior standing or consent of instructor; MECHENG 320(R).

**Course Rules:** EAS 490, FRSHWTR 490, and PEACEST 490 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 490G Sustainable Design for Community Development**

3 cr. Undergraduate/Graduate.

Transdisciplinary students will work on sustainable projects and designs to address complex societal problems that require consideration of economy, environment, politics, and technology that leverage community-based knowledge.

**Prerequisites:** junior standing or consent of instructor; MECHENG 320(R).

**Course Rules:** EAS 490, FRSHWTR 490, and PEACEST 490 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 497 Study Abroad:**

1-5 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program. Course work, level, content, and credits determined at the time of offering.

**Prerequisites:** acceptance to Study Abroad Prog; cons CEAS assoc dean for academic prog.

**Course Rules:** May be retaken w/chg in topic to 12 cr max for undergrad & 9 cr max for grad.

**Last Taught:** Summer 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 497G Study Abroad:**

1-5 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program. Course work, level, content, and credits determined at the time of offering.

**Prerequisites:** acceptance to Study Abroad Prog; cons CEAS assoc dean for academic prog.

**Course Rules:** May be retaken w/chg in topic to 12 cr max for undergrad & 9 cr max for grad.

**Last Taught:** Summer 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 701 Effective Academic Writing**

1 cr. Graduate.

Principles and practices for effective academic research writing.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as a repeat of MECHENG 890 with similar topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 702 Preparing Future Engineering Faculty & Professionals**

2 cr. Graduate.

A survey of the graduate student experience and of academic and professional life after graduation

**Prerequisites:** graduate standing.

**Course Rules:** Counts as a repeat of MECHENG 890 with similar topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAS 710 Managing Human Resources and Teams**

3 cr. Graduate.

A survey of the major functions and processes of human resource management and team management covering talent acquisition, development, management, evaluation, and optimization and foundations of team building and management.

**Prerequisites:** graduate standing.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## English (ENGLISH)

**ENGLISH 90 Basic Writing**

0 cr. Undergraduate.

Sustained writing and revision to develop fluency in articulating ideas and familiarity with writing conventions. Fourth instructional hr required.

**Prerequisites:** level 0 on English Placement Test.

**Course Rules:** May not be taken cr/no cr. Audit not allowed. Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.

**Last Taught:** Summer 2016, Spring 2006, Fall 2005, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 95 Fundamentals of Composition**

0 cr. Undergraduate.

Critical reading and writing, with an emphasis on the processes of writing and revision. Students produce a portfolio of revised essays.

**Prerequisites:** level 0 on English Placement Test.

**Course Rules:** May not be taken cr/no cr. Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.

**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 100 Introduction to College Writing and Reading**

4 cr. Undergraduate.

Critical reading and writing, with emphasis on the processes of writing, revision, and academic conventions. Students produce a portfolio of revised essays.

**Prerequisites:** Level 1 earned via ACT, SAT, Guided English Placement (GEP), or English Placement Test (scores from 2019 or earlier), or grade of C or better in ENGLISH 95.

**Course Rules:** May not be taken cr/no cr. Not open to students who have taken ENGLISH 101.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 101 Introduction to College Writing**

3 cr. Undergraduate.

Critical reading, writing, and revision, with an emphasis on reflective inquiry and academic writing conventions. Students produce a portfolio of revised essays.

**Prerequisites:** Level 2 earned via ACT, SAT, Guided English Placement (GEP), or English Placement Test (scores from 2019 or earlier), or grade of C or better in ENGLISH 95.

**Course Rules:** May not be taken cr/no cr. Not open to students who have taken ENGLISH 100. ESL 118 counts as a repeat of ENGLISH 101.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ENGLISH 102 College Writing and Research**

3 cr. Undergraduate.

Extensive engagement with foundational concepts in information literacy, critical thinking, and writing with genre awareness to approach research as a rhetorical endeavor.

**Prerequisites:** Level 3 earned via ACT, SAT, Guided English Placement (GEP), or English Placement Test (scores from 2019 or earlier), or a grade of C or better in English 100, English 101, EAP 101, or EAP 118.

**Course Rules:** May not be taken Credit/No Credit. Counts as repeat of ENGLISH 112, HONORS 102, or HONORS 112.

**General Education Requirements:** ENG, OWCA

**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 111 Entertainment Arts: Film, Television, and the Internet**

3 cr. Undergraduate.

History of film, television, and the internet. Focus on economic and aesthetic features of these media and interrelationships among them.

Models for critiquing each form.

**Prerequisites:** none

**Course Rules:** ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 150 Multicultural America**

3 cr. Undergraduate.

Cross-cultural study of U.S. ethnic and racial identities through materials from literature, history, and the media, with attention to African-, Asian-, Hispanic-, and Native American experiences.

**Prerequisites:** none.

**Course Rules:** Cultures and Communities Prog course; req'd service learning component.

**General Education Requirements:** CD, HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 192 First-Year Seminar**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2011, Spring 2010, Summer 2009, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 201 Strategies for Academic Writing**

3 cr. Undergraduate.

Intensive practice in expository writing designed to continue development of already proficient writers.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 205 Business Writing**

3 cr. Undergraduate.

Instruction and practice in writing business reports, memos, and letters. Particularly appropriate for students in business and related areas.

**Prerequisites:** soph st; grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** May not be taken cr/no cr.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 206 Technical Writing**

3 cr. Undergraduate.

Instruction and practice in writing technical reports, proposals, and other technical writing forms. Particularly appropriate for students in science, engineering, architecture, and other applied sciences.

**Prerequisites:** satisfaction of GER English Composition competency requirement.

**Course Rules:** May not be taken cr/no cr.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 206X Technical Writing**

3 cr. Undergraduate.

Instruction and practice in writing technical reports, proposals, and other technical writing forms. Particularly appropriate for students in science, engineering, architecture, and other applied sciences.

**Prerequisites:** satisfaction of GER English Composition competency requirement.

**Course Rules:** May not be taken cr/no cr.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 207 Health Science Writing**

3 cr. Undergraduate.

Instruction and practice in writing reports and research papers for health science professions. Particularly appropriate for students in health related fields, including pre-medical, dental, etc.

**Prerequisites:** satisfaction of GER English Composition competency req.

**Course Rules:** May not be taken cr/no cr.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 209 Language in the United States**

3 cr. Undergraduate.

Survey of the languages of the U.S., discussing social and political aspects of language use and issues of interethnic communication.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2012, Summer 2012, Spring 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 210 Global Englishes**

3 cr. Undergraduate.

Varieties of English spoken around the world; history and spread of English; use of English as a national and international language.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Spring 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 211 Aspects of the English Language:**

3 cr. Undergraduate.

Introductory projects in such areas as social or specialized usages, modern grammars, dialects, English language history, theoretical and practical studies of language in literary forms.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.**Course Rules:** May not be retaken for cr.**Last Taught:** Fall 1988, Spring 1987, Fall 1986, Spring 1986.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 212 Grammar and Usage**

3 cr. Undergraduate.

The basic concepts and categories of English grammar, with emphasis on usage and writing problems.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 214 Writing in the Professions:**

3 cr. Undergraduate.

Adaptation of writing to situations and requirements of specific professional writing genres, such as criminal justice, government, and environmental writing.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.**Course Rules:** May be retaken w/chg in topic; no cr limit.**General Education Requirements:** OWCB**Last Taught:** Spring 2022, Fall 2021, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 215 Introduction to English Studies**

3 cr. Undergraduate.

Writing-intensive introduction to multiple forms and contexts of literary and nonliterary texts and discourses in English, in a cultural, historical, and global framework.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.**Course Rules:** Required for English & secondary education English majors.**General Education Requirements:** HU, OWCB**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 222 English Writers, 1800 to the Present**

3 cr. Undergraduate.

Works of English literary tradition from the Romantics through the present. Combines close reading with study of historical and social context of literature.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.**General Education Requirements:** HU**Last Taught:** Fall 2022, Fall 2009, Fall 2008, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 233 Introduction to Creative Writing**

3 cr. Undergraduate.

An introduction to the writing of poetry and fiction.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 240 Rhetoric, Writing, and Culture:**

3 cr. Undergraduate.

Major concerns in cultural criticism, including race, gender, class, cultural identity, technology, and ideology; examines how rhetoric, writing, and media influence our thinking about these concerns.

**Prerequisites:** grade of C or better in ENGLISH 102(P) or score at level 4 on EPT.**Course Rules:** May be retaken with change in topic to 9 cr max.**General Education Requirements:** HU, OWCB**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 243 Introduction to Literature by Women:**

3 cr. Undergraduate.

Ways in which women have expressed their views of women's roles and goals in literature.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Spring 2019, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 245 The Life, Times, and Work of a Literary Artist:**

3 cr. Undergraduate.

A writer in a cultural, historical, and biographical context.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Spring 2012, Spring 2010, Spring 2009, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 247 Literature and Human Experience:**

3 cr. Undergraduate.

Focus upon the portrayal of a universal theme in literature of the past and present.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Spring 2014, Spring 2013, Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 248 Literature and Contemporary Life:**

3 cr. Undergraduate.

Literary portrayal of the character issues and concerns of the contemporary world as reflected in literature.

**Prerequisites:** grade of C or better in ENGLISH 102(P) or score at level 4 on EPT.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Fall 2013, Spring 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 251 Fantasy in Literature:**

3 cr. Undergraduate.

Forms of fantasy in literature from the medieval period to the present.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** UWinteriM 2018, UWinteriM 2017, UWinteriM 2016, UWinteriM 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 253 Science Fiction:**

3 cr. Undergraduate.

Selected works of literary science fiction by theme, type, period, or origin.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2014, Spring 2013, Spring 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 260 Introduction to Poetry:**

3 cr. Undergraduate.

Selected works of poetry by theme or type.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 of EPT.

**Course Rules:** May be retaken w/chg of topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2013, Spring 2010, Fall 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 261 Introduction to Short Stories:**

3 cr. Undergraduate.

Selected short stories by theme, type, period, or origin.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2013, Fall 2011, Spring 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 262 Introduction to Drama:**

3 cr. Undergraduate.

Selected plays of the English-speaking theater by theme, type, period, or origin.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2006, Fall 2005, Summer 2005, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 263 Introduction to the Novel:**

3 cr. Undergraduate.

Selected novels from the English-speaking world by theme, type, period, or origin.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** May be retaken w/chg of topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2013, Spring 2012, Fall 2011, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 268 Introduction to Cultural Studies:**

3 cr. Undergraduate.

Theories, subject matters, and core texts of the interdisciplinary field of cultural studies.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2013, Fall 2009, Fall 2007, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 269 Literary Forms and Genres:**

3 cr. Undergraduate.

A literary form or genre such as essay, satire, tragedy, etc.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 of EPT.

**Course Rules:** May be retaken w/chg of topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2014, Spring 2013, Fall 2011, UWinteriM 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 274 Literature and the Other Arts:**

3 cr. Undergraduate.

Selections from literary studies in connection with works from the other arts ranging from the Middle Ages to the present.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2010, Spring 2009, Spring 2008, Spring 1993.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 276 Introduction to American Indian Literature:**

3 cr. Undergraduate.

Literature of the American Indian, focusing on major forms, prominent themes, or a particular tribe or time period.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** AIS 276 & English 276 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** CD, HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 277 Introduction to Ethnic Minority Literature:**

3 cr. Undergraduate.

A survey covering literature by three or more of the following ethnic groups: African American, American Indian, Asian American, U.S. Latino/a, and Caribbean American.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** CD, HU

**Last Taught:** Summer 2022, Fall 2018, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 278 Introduction to World Literatures Written in English:**

3 cr. Undergraduate.

The literature of a particular region or regions of the English-speaking world.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 of EPT.

**Course Rules:** May be retaken w/chg of topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2013, Spring 2012, Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 279 Introduction to U.S. Latino/a Literature:**

3 cr. Undergraduate.

Latino/a American literature with a focus on region, genre, theme, or period.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** May be retaken w/chg in topic to a 9 cr max. English 279 & Latino 279 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2011, Fall 2009, Fall 2008, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 280 Introduction to Asian-American Literature:**

3 cr. Undergraduate.

Asian-American literature with focus on region, genre, theme, or period.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 of EPT.

**Course Rules:** May be retaken w/chg of topic to 9 cr max..

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2014, Spring 2010, Spring 2009, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 281 Introduction to African-American Literature:**

3 cr. Undergraduate.

African-American literature with a focus on region, genre, theme, or period.

**Prerequisites:** a grade of C or better in ENGLISH 102(P) or score at level 4 of EPT.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2011, Spring 2010, Fall 2008, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 285 Modern Irish Language and Literature in Translation**

3 cr. Undergraduate.

Major works of literature written in Irish Gaelic, eighth century to present day, in bilingual (Irish/English) texts.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** Celtic 285 & English 285 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2007, Spring 1986, Spring 1985, Spring 1984.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 286 Writing about Film and Television**

3 cr. Undergraduate.

Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** English 286 & FilmStd 286 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 290 Introduction to Film Studies**

3 cr. Undergraduate.

Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking.

**Prerequisites:** none.

**Course Rules:** English 290 & FilmStd 290 are jointly offered; they count as repeats of one another.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 291 Introduction to Television Studies**

3 cr. Undergraduate.

The forms, images, and narratives particular to television.

**Prerequisites:** none.

**Course Rules:** English 291 & FilmStd 291 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 292 Classic Dramas in Film:**

1 cr. Undergraduate.

A sampling of great plays in film versions, with performances by acclaimed actors.

**Prerequisites:** none.

**Course Rules:** Offered on a cr/no cr basis. May be retaken w/chg in topic to 3 cr max. English 292 & FilmStd 292 are jointly offered; w/same topic, they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 294 Game Culture**

3 cr. Undergraduate.

Critical study of games, digital and otherwise; forms, conventions, and practices that inform design and reception of games; place of games in contemporary culture.

**Prerequisites:** GER OWC-A.

**Course Rules:** Counts as repeat of English 380 w/same topic. English 294 & FilmStd 294 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 295 Women and Film**

3 cr. Undergraduate.

A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture.

**Prerequisites:** soph st.

**Course Rules:** English 295 & FilmStd 295 are jointly offered; they count as repeats of one another.

**General Education Requirements:** HU

**Last Taught:** Spring 2010, Spring 2009, Fall 2007, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Last Taught:** Spring 2009, Fall 2007, Spring 2007, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 298 Undergraduate Lower-Division Service Learning**

1 cr. Undergraduate.

Faculty-supervised placement of students as community service volunteers.

**Prerequisites:** conc reg in English 100- or 200-level service learning course.

**Course Rules:** May be retaken to 3 cr max.

**Last Taught:** Spring 2010, Fall 2009, Spring 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2002, Spring 1992, Fall 1991.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 301 Survey of English Literature, Beginnings to 1500**

3 cr. Undergraduate.

Writers and literary trends of the Old English and medieval period, with emphasis on their historical, social, and cultural context.

**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 302 Survey of English Literature, 1500-1660**

3 cr. Undergraduate.

Writers and trends of the English literature in the period 1500-1660, with emphasis on historical, social, and cultural context.

**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.

**Course Rules:** Recom in prep for English 452, 453, 454 & 456.

**Last Taught:** Fall 2020, Fall 2018, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 303 Survey of English Literature, 1660-1798**

3 cr. Undergraduate.

Writers and trends in English Literature, 1660-1798, with emphasis on historical, social, and cultural context.

**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Fall 2019, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 304 Survey of English Literature, 1798-1900**

3 cr. Undergraduate.

Writers and trends in English Literature, 1798-1900, with emphasis on historical, social, and cultural context.

**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2020, Fall 2017, Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 305 Survey of English Literature: 1900 to the Present**

3 cr. Undergraduate.

Writers and trends of English Literature since 1900, with emphasis on historical, social, and cultural context.

**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2021, Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 306 Survey of Irish Literature**

3 cr. Undergraduate.

Irish literature from earliest times through the Literary Renaissance--folklore, saga, bardic poetry; poetry, fiction, and drama of the nineteenth century to the present.

**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2022, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 307 Survey of American Literature to 1865**

3 cr. Undergraduate.

Writers and trends in American Literature before 1865, with emphasis on historical, social, and cultural context.

**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2023, Spring 2020, Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 308 Survey of American Literature, 1865-1965**

3 cr. Undergraduate.

Writers and trends of American Literature, 1865-1965, with emphasis on historical, social, and cultural context.

**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Fall 2021, Spring 2021, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 309 Survey of Contemporary American Literature**

3 cr. Undergraduate.

Writers and trends of American Literature after 1965, with emphasis on historical, social, and cultural context.

**Prerequisites:** soph st; English 215(P); satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2022, Spring 2022, Summer 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 310 Writing, Speaking, and Technoscience in the 21st Century**

3 cr. Undergraduate.

Theories and practices of communicating about science and technology.

**Prerequisites:** satisfaction of OWC-A GER or cons instr.

**Course Rules:** Satisfies OWC-B GER.

**General Education Requirements:** HU, OWCB

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 312 Topics in Film, Television and Digital Studies:**

3 cr. Undergraduate.

Study of stylistic, generic, historical, or theoretical issues in film, television and/or digital studies.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 290(P).

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 312 and FILMSTD 312 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 316 World Cinema:**

3 cr. Undergraduate.

National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms.

**Prerequisites:** jr. st or English 290(P); satisfaction of OWC-A.

**Course Rules:** Retakable w/chg in topic to 9 cr max. ComplLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 320 Studies in Film and Television Authorship:**

3 cr. Undergraduate.

The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star.

**Prerequisites:** junior standing or ENGLISH 290(P), and satisfaction of GER English Composition competency requirement.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 320 and FILMSTD 320 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2023, Fall 2021, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 325 The Art of Fiction:**

3 cr. Undergraduate/Graduate.

Study of novels or short stories through a unifying theme, set of technical problems, or critical concepts.

**Prerequisites:** junior standing; satisfaction of GER English Composition competency requirement.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 325G The Art of Fiction:**

3 cr. Undergraduate/Graduate.

Study of novels or short stories through a unifying theme, set of technical problems, or critical concepts.

**Prerequisites:** junior standing; satisfaction of GER English Composition competency requirement.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 326 The Development of the Novel:**

3 cr. Undergraduate/Graduate.

Major artistic, social and intellectual events in the history of the novel from its origins to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 326G The Development of the Novel:**

3 cr. Undergraduate/Graduate.

Major artistic, social and intellectual events in the history of the novel from its origins to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 327 The Development of the Short Story**

3 cr. Undergraduate/Graduate.

Major artistic, social and intellectual events in the history of the short story from the nineteenth century to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 327G The Development of the Short Story**

3 cr. Undergraduate/Graduate.

Major artistic, social and intellectual events in the history of the short story from the nineteenth century to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 329 Film and Literature**

3 cr. Undergraduate/Graduate.

Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode.

**Prerequisites:** jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.

**Course Rules:** English 329 & FilmStd 329 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 329G Film and Literature**

3 cr. Undergraduate/Graduate.

Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode.

**Prerequisites:** jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.

**Course Rules:** English 329 & FilmStd 329 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 332 LGBTQ+ Literature:**

3 cr. Undergraduate.

Examines themes in modern literature about sexual identity and community.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 341 The Development of Drama:**

3 cr. Undergraduate/Graduate.

A historical approach, with emphasis on new ideas in the theatre, new techniques, and the evolution of genres.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2006, Spring 1990.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 341G The Development of Drama:**

3 cr. Undergraduate/Graduate.

A historical approach, with emphasis on new ideas in the theatre, new techniques, and the evolution of genres.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2006, Spring 1990.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 342 Comedy:**

3 cr. Undergraduate/Graduate.

Works from the comic tradition with focus on theme, genre, region, or historical development.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2018, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 342G Comedy:**

3 cr. Undergraduate/Graduate.

Works from the comic tradition with focus on theme, genre, region, or historical development.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2018, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 344 Modern Drama:**

3 cr. Undergraduate/Graduate.

Topics vary. American and English dramatists since 1920, with emphasis on their stage approach, their use of language; and themes of illusion, communication, and identity.

**Prerequisites:** junior standing, satisfaction of GER English Competency; 6 cr in courses approved for L&S Humanities distribution.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Spring 2022, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 344G Modern Drama:**

3 cr. Undergraduate/Graduate.

Topics vary. American and English dramatists since 1920, with emphasis on their stage approach, their use of language; and themes of illusion, communication, and identity.

**Prerequisites:** junior standing, satisfaction of GER English Competency; 6 cr in courses approved for L&S Humanities distribution.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Spring 2022, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 350 Global Jewish Film and Television:**

3 cr. Undergraduate.

Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism.

**Prerequisites:** junior standing.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 350, FILMSTD 350, and JEWISH 350 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 360 The Art of Poetry:**

3 cr. Undergraduate/Graduate.

Inquiry into the art of poetry, with readings from a variety of poets.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Spring 2013, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 360G The Art of Poetry:**

3 cr. Undergraduate/Graduate.

Inquiry into the art of poetry, with readings from a variety of poets.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Spring 2013, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 361 The Development of Poetry:**

3 cr. Undergraduate/Graduate.

A study of significant intellectual, artistic, or social events in the history of poetry.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 361G The Development of Poetry:**

3 cr. Undergraduate/Graduate.

A study of significant intellectual, artistic, or social events in the history of poetry.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 363 Medieval Epic and Romance**

3 cr. Undergraduate/Graduate.

Study of the traditions of medieval English epic and romance through an examination of representative medieval works.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 363G Medieval Epic and Romance**

3 cr. Undergraduate/Graduate.

Study of the traditions of medieval English epic and romance through an examination of representative medieval works.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 372 Survey of American Indian Literature**

3 cr. Undergraduate.

A general, representative study of the literature of the American Indian.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** AIS 372 & English 372 are jointly offered; they count as repeats of one another.**General Education Requirements:** CD, HU**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 373 Survey of Ethnic Minority Literature**

3 cr. Undergraduate.

A general, representative study of the literature of two or more ethnic minority groups.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**General Education Requirements:** CD, HU**Last Taught:** Fall 2021, Spring 2021, Spring 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 374 Survey of U.S. Latino/a Literature**

3 cr. Undergraduate.

A general, representative study of U.S. Latino/a literature.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** English 374 & Latino 374 are jointly offered; they count as repeats of one another.**General Education Requirements:** CD**Last Taught:** Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 375 Survey of Asian American Literature**

3 cr. Undergraduate.

A general, representative study of Asian-American literature written since 1930.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**General Education Requirements:** CD**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 376 Survey of African-American Literature to 1930**

3 cr. Undergraduate.

A general, representative study of African-American literature before 1930.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**General Education Requirements:** CD**Last Taught:** Fall 2011, UWinterIM 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 377 Survey of African-American Literature, 1930 to the Present**

3 cr. Undergraduate.

A general, representative study of African-American literature written since 1930.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**General Education Requirements:** CD**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ENGLISH 378 Survey of Current Literary and Cultural Theory**

3 cr. Undergraduate.

A general, representative study of current critical approaches to literary and cultural studies, including basic terminology and concrete application.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 380 Media and Society:**

3 cr. Undergraduate/Graduate.

An examination of film, television, and/or digital media culture, with attention to class, gender, race, sexuality, nation and the environment.

**Prerequisites:** junior standing and ENGLISH 290(P) or ENGLISH 291(P) or 6 cr in courses approved for hum breadth cr.

**Course Rules:** May be retaken with change in topic to 9 cr max. ENGLISH 380 and FILMSTD 380 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 380G Media and Society:**

3 cr. Undergraduate/Graduate.

An examination of film, television, and/or digital media culture, with attention to class, gender, race, sexuality, nation and the environment.

**Prerequisites:** junior standing and ENGLISH 290(P) or ENGLISH 291(P) or 6 cr in courses approved for hum breadth cr.

**Course Rules:** May be retaken with change in topic to 9 cr max. ENGLISH 380 and FILMSTD 380 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 381 World Literatures Written in English:**

3 cr. Undergraduate.

A general, representative study of the literature of an area of the English-speaking world, e.g. Canada, Australia, etc.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg of topic to 9 cr max.

**Last Taught:** Summer 2020, Summer 2019, Summer 2018, UWinterIM 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 383 Cinema, Television, and Genre:**

3 cr. Undergraduate/Graduate.

Stylistic and thematic analyses of film and/or television genres (e.g., melodrama, film noir, sitcom). Consideration of writers, directors, producers and stars whose works represent forms of a genre.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 290(P) or 6 cr in courses approved for hum breadth cr.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 383 and FILMSTD 383 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 383G Cinema, Television, and Genre:**

3 cr. Undergraduate/Graduate.

Stylistic and thematic analyses of film and/or television genres (e.g., melodrama, film noir, sitcom). Consideration of writers, directors, producers and stars whose works represent forms of a genre.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 290(P) or 6 cr in courses approved for hum breadth cr.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 383 and FILMSTD 383 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 390 Classical Film Criticism and Theory**

3 cr. Undergraduate/Graduate.

Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing.

**Prerequisites:** jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.

**Course Rules:** English 390 & FilmStd 390 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 390G Classical Film Criticism and Theory**

3 cr. Undergraduate/Graduate.

Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing.

**Prerequisites:** jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.

**Course Rules:** English 390 & FilmStd 390 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 391 Television Criticism and Theory**

3 cr. Undergraduate/Graduate.

Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.

**Course Rules:** English 391 & FilmStd 391 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 391G Television Criticism and Theory**

3 cr. Undergraduate/Graduate.

Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 291(P) or cons instr.

**Course Rules:** English 391 & FilmStd 391 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 393 Entertainment Industries:**

3 cr. Undergraduate.

In-depth look at contemporary media industries both in the U.S. and globally. Emphasis on changing content, production and viewing practices.

**Prerequisites:** jr st; satisfaction of OWC-A; English 290(P), English 291(P), or cons instr.

**Course Rules:** English 393 & FilmStd 393 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/change in topic to 9 cr max.

**Last Taught:** Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 394 Theories of Digital Culture:**

3 cr. Undergraduate/Graduate.

An examination of theories of digital and new media in relation to cinema, television, literature, and other arts.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 290(P) or ENGLISH 291(P) or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max. ENGLISH 394 and FILMSTD 394 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 394G Theories of Digital Culture:**

3 cr. Undergraduate/Graduate.

An examination of theories of digital and new media in relation to cinema, television, literature, and other arts.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 290(P) or ENGLISH 291(P) or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max. ENGLISH 394 and FILMSTD 394 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 395 Feminist Media Criticism and Theory:**

3 cr. Undergraduate.

Theories of representation, spectatorship, and analyses of gender and identity in relation to film, television, and/or digital media.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 395 and FILMSTD 395 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 1996, Fall 1993.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 400 Introduction to English Linguistics**

3 cr. Undergraduate/Graduate.

Application of linguistic theory and techniques to modern English. Course is required of all English majors and minors in the College of Community Engagement & Professions' School of Education.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Course Rules:** ENGLISH 400 and LINGUIS 400 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 400G Introduction to English Linguistics**

3 cr. Undergraduate/Graduate.

Application of linguistic theory and techniques to modern English. Course is required of all English majors and minors in the College of Community Engagement & Professions' School of Education.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Course Rules:** ENGLISH 400 and LINGUIS 400 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 401 History of the English Language**

3 cr. Undergraduate/Graduate.

The origins of the English language and its changing structure.

**Prerequisites:** jr st; satisfaction of GER English Composition Competency req.

**Last Taught:** Spring 2014, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 401G History of the English Language**

3 cr. Undergraduate/Graduate.

The origins of the English language and its changing structure.

**Prerequisites:** jr st; satisfaction of GER English Composition Competency req.

**Last Taught:** Spring 2014, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 402 Theories of Language and Literature:**

3 cr. Undergraduate/Graduate.

Various topics involving some theoretical aspect(s) of language and literature.

**Prerequisites:** jr st, satisfaction of GER English Composition competency req; an intro course in linguistics (e.g. English/Linguistics 400, English 401, or Linguistics 350).

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 402G Theories of Language and Literature:**

3 cr. Undergraduate/Graduate.

Various topics involving some theoretical aspect(s) of language and literature.

**Prerequisites:** jr st, satisfaction of GER English Composition competency req; an intro course in linguistics (e.g. English/Linguistics 400, English 401, or Linguistics 350).

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 403 Survey of Modern English Grammar**

3 cr. Undergraduate/Graduate.

Studies in elements of grammar, noun and verb phrase, clause and sentence connection, and complex noun phrase.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 403G Survey of Modern English Grammar**

3 cr. Undergraduate/Graduate.

Studies in elements of grammar, noun and verb phrase, clause and sentence connection, and complex noun phrase.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 404 Language, Power, and Identity**

3 cr. Undergraduate/Graduate.

The use of distinctive language varieties to construct identity and maintain power relations within a society.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 404G Language, Power, and Identity**

3 cr. Undergraduate/Graduate.

The use of distinctive language varieties to construct identity and maintain power relations within a society.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 406 Advanced English Grammar**

3 cr. Undergraduate/Graduate.

Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 403(P).

**Course Rules:** English 406 & Linguis 406 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 1995, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 406G Advanced English Grammar**

3 cr. Undergraduate/Graduate.

Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 403(P).

**Course Rules:** English 406 & Linguis 406 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 1995, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 412 Global Cinema and Media:**

3 cr. Undergraduate/Graduate.

Study of cinema and media in the context of globalization; cinema and media's changing impact beyond national borders.

**Prerequisites:** junior standing or ENGLISH 290(P); and satisfaction of GER English Composition competency requirement.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 412 and FILMSTD 412 are jointly offered; with the same topic, they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 412G Global Cinema and Media:**

3 cr. Undergraduate/Graduate.

Study of cinema and media in the context of globalization; cinema and media's changing impact beyond national borders.

**Prerequisites:** junior standing or ENGLISH 290(P); and satisfaction of GER English Composition competency requirement.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 412 and FILMSTD 412 are jointly offered; with the same topic, they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 414 Special Topics in Creative Writing:**

3 cr. Undergraduate/Graduate.

Readings, discussion and assigned writing in specialized areas of creative writing.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 233(P), ENGLISH 234(P), ENGLISH 235(P), or ENGLISH 236(P); or graduate standing.

**Course Rules:** May be retaken with change in topic to 9 cr max. May not be retaken for major cr. Students may not enroll concurrently in a second section of ENGLISH 414 or in ENGLISH 415, ENGLISH 416, ENGLISH 615, or ENGLISH 616.

**Last Taught:** Spring 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 414G Special Topics in Creative Writing:**

3 cr. Undergraduate/Graduate.

Readings, discussion and assigned writing in specialized areas of creative writing.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 233(P), ENGLISH 234(P), ENGLISH 235(P), or ENGLISH 236(P); or graduate standing.

**Course Rules:** May be retaken with change in topic to 9 cr max. May not be retaken for major cr. Students may not enroll concurrently in a second section of ENGLISH 414 or in ENGLISH 415, ENGLISH 416, ENGLISH 615, or ENGLISH 616.

**Last Taught:** Spring 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 415 Fiction Workshop**

3 cr. Undergraduate.

Classroom analysis and discussion of student writing. Content varies.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 233(P) or 234(P).

**Course Rules:** May be retaken to 6 cr max. Students may not enroll concurrently in a second section of English 415 or in English 414, 416, 615, or 616.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 416 Poetry Workshop**

3 cr. Undergraduate.

Classroom analysis and discussion of student poetry. Content varies.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 233(P) or 235(P).

**Course Rules:** May be retaken to 6 cr max. Students may not enroll concurrently in a second section of English 416 or in English 414, 415, 615, or 616.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 417 Readings for Writers:**

3 cr. Undergraduate.

A literature course exploring literary traditions, formal or aesthetic problems of interest to creative writers.

**Prerequisites:** jr st; satisfaction of English Composition competency req; English 233(203)(P), 234(P), 235(P), or 236(204)(P).

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2013, Fall 2012, Fall 2011, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 418 Literary Journal Production**

3 cr. Undergraduate.

Develop a working understanding of the editorial, design, production, and promotional processes at the heart of successful literary and arts journals.

**Prerequisites:** jr st; satisfaction of OWC-A; English 233(P), 234(P), 235(P), or 236(P).

**Course Rules:** Counts as repeat of English 414 w/same topic.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 425 Advanced Business Writing**

3 cr. Undergraduate.

Advanced strategies in business writing. Special focus on primary research, rhetorical and contextual analysis, problem-solving, collaboration, and persuasive writing.

**Prerequisites:** jr st; English 205(P).

**Course Rules:** Not open to students w/cr in English 430(ER).

**Last Taught:** Spring 2011, Spring 2010, Spring 2009, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 426 Professional and Technical Communications Research**

3 cr. Undergraduate.

Research (e.g., observations, interviews, surveys, focus groups, card-sorting, usability testing) used by workplace communicators to resolve problems and ensure production of quality, user-based documentation products.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 427 Writing for Nonprofits**

3 cr. Undergraduate/Graduate.

Persuasive writing of advocacy genres, such as reports, letters, websites, and social media, produced by nonprofit organizations. Focus on theory, practice, collaboration, and service learning.

**Prerequisites:** jr st.

**Course Rules:** No cr for students w/cr in English 431 w/same topic.

**Last Taught:** Spring 2023, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 427G Writing for Nonprofits**

3 cr. Undergraduate/Graduate.

Persuasive writing of advocacy genres, such as reports, letters, websites, and social media, produced by nonprofit organizations. Focus on theory, practice, collaboration, and service learning.

**Prerequisites:** jr st.

**Course Rules:** No cr for students w/cr in English 431 w/same topic.

**Last Taught:** Spring 2023, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 428 Strategic Writing for Organizations**

3 cr. Undergraduate.

Analysis and creation of written responses to a wide variety of organization issues, exigencies, and crises.

**Prerequisites:** junior standing; satisfaction of GER English Composition competency requirement.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 428X Strategic Writing for Organizations**

3 cr. Undergraduate.

Analysis and creation of written responses to a wide variety of organization issues, exigencies, and crises.

**Prerequisites:** junior standing; satisfaction of GER English Composition competency requirement.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 429 Technical Communications and Professional Leadership**

3 cr. Undergraduate.

Technical writing and communication concepts for understanding leadership and problem-solving in organizations.

**Prerequisites:** junior standing; satisfaction of GER English Composition competency requirement.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 429X Technical Communications and Professional Leadership**

3 cr. Undergraduate.

Technical writing and communication concepts for understanding leadership and problem-solving in organizations.

**Prerequisites:** junior standing; satisfaction of GER English Composition competency requirement.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 430 Advanced Writing Workshop**

3 cr. Undergraduate/Graduate.

A tutorial course in advanced exposition. Individual assignments and conferences. Enrollment limited to 12 students.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 430G Advanced Writing Workshop**

3 cr. Undergraduate/Graduate.

A tutorial course in advanced exposition. Individual assignments and conferences. Enrollment limited to 12 students.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 431 Topics in Advanced Communications:**

3 cr. Undergraduate/Graduate.

Seminar in the history, theory, or practice of professional, technical, medical, or science communications.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 431G Topics in Advanced Communications:**

3 cr. Undergraduate/Graduate.

Seminar in the history, theory, or practice of professional, technical, medical, or science communications.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 432 The Rhetoric of Argument**

3 cr. Undergraduate.

Analytical survey of rhetorical methods and forms in argumentative discourse, the role of audience in argumentation, and 'fields' of argument.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; grade of C or better in English 102(P), 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), or 240(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2019, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 433 Creative Nonfiction for Publication**

3 cr. Undergraduate/Graduate.

Writing in a variety of creative nonfiction formats, using literary techniques. Preparation of articles for submission to magazines, newspapers, newsletters, and educational publications.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 433G Creative Nonfiction for Publication**

3 cr. Undergraduate/Graduate.

Writing in a variety of creative nonfiction formats, using literary techniques. Preparation of articles for submission to magazines, newspapers, newsletters, and educational publications.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 434 Editing and Publishing**

3 cr. Undergraduate/Graduate.

Training and practice in editorial procedures; preparation of fiction/nonfiction manuscripts for book or journal publication; editorial rewriting; editing; copyediting; proofreading; fundamentals of layout/design.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; 6 cr in English 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), 233(P), 234(P), 235(P), 236(P), 240(P), 414(P), 415(P), 416(P), 430(P), 431(P), 432(P), 433(P), 435(P), 436(P), 437(P), 615(P), or 616(P).

**Last Taught:** Fall 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 434G Editing and Publishing**

3 cr. Undergraduate/Graduate.

Training and practice in editorial procedures; preparation of fiction/nonfiction manuscripts for book or journal publication; editorial rewriting; editing; copyediting; proofreading; fundamentals of layout/design.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; 6 cr in English 201(P), 202(P), 205(P), 206(P), 207(P), 208(P), 230(P), 233(P), 234(P), 235(P), 236(P), 240(P), 414(P), 415(P), 416(P), 430(P), 431(P), 432(P), 433(P), 435(P), 436(P), 437(P), 615(P), or 616(P).

**Last Taught:** Fall 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 435 Rhetoric and Professional Writing**

3 cr. Undergraduate.

Theories and practices of rhetoric and professional writing with attention to business, technical, and community contexts.

**Prerequisites:** English 205(P), 206(P), 207(P), or 310(P) or cons instr.

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 435X Rhetoric and Professional Writing**

3 cr. Undergraduate.

Theories and practices of rhetoric and professional writing with attention to business, technical, and community contexts.

**Prerequisites:** English 205(P), 206(P), 207(P), or 310(P) or cons instr.

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 436 Technical Documentation**

3 cr. Undergraduate/Graduate.

Theory, methods, and practice in writing clear, concise technical instructions; audience analysis, customer requirements, information architecture, training materials, web projects, and emerging technology discussion topics.

**Prerequisites:** jr st; English 206(P) & 435(P) or cons instr.

**Last Taught:** Fall 2018, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 436G Technical Documentation**

3 cr. Undergraduate/Graduate.

Theory, methods, and practice in writing clear, concise technical instructions; audience analysis, customer requirements, information architecture, training materials, web projects, and emerging technology discussion topics.

**Prerequisites:** jr st; English 206(P) & 435(P) or cons instr.

**Last Taught:** Fall 2018, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 437 Project Management for Professional Writers**

3 cr. Undergraduate/Graduate.

Major stages of the writing process in workplace contexts: research, analysis, project planning and management, document design, usability testing, and revision.

**Prerequisites:** junior standing; satisfaction of GER English Composition competency requirement; English 205(P), 206(P), or consent of instructor.

**Course Rules:** Counts as repeat of English 437X.

**Last Taught:** Fall 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 437X Project Management for Professional Writers**

3 cr. Undergraduate/Graduate.

Major stages of the writing process in workplace contexts: research, analysis, project planning and management, document design, usability testing, and revision.

**Prerequisites:** junior standing; satisfaction of GER English Composition competency requirement; English 205(P), 206(P), or consent of instructor.

**Course Rules:** Counts as repeat of English 437X.

**Last Taught:** Fall 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 438 Advanced Research Writing**

3 cr. Undergraduate/Graduate.

Intensive instructions in methods and writing for research papers: audience analysis, bibliographic methods, computer searches, interpretation of data, style guides, abstracts and summaries and the publication process.

**Prerequisites:** jr st; English 208(P) or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 438G Advanced Research Writing**

3 cr. Undergraduate/Graduate.

Intensive instructions in methods and writing for research papers: audience analysis, bibliographic methods, computer searches, interpretation of data, style guides, abstracts and summaries and the publication process.

**Prerequisites:** jr st; English 208(P) or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 439 Information Design**

3 cr. Undergraduate/Graduate.

Development of technical communication projects for external clients, applying theories from graphic design, usability, cognitive psychology, and technical communication.

**Prerequisites:** junior standing; English 205(P), 206(P), or 207(P), or consent of instructor.

**Last Taught:** Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 439X Information Design**

3 cr. Undergraduate/Graduate.

Development of technical communication projects for external clients, applying theories from graphic design, usability, cognitive psychology, and technical communication.

**Prerequisites:** junior standing; English 205(P), 206(P), or 207(P), or consent of instructor.

**Last Taught:** Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 440 Introduction to Peer Tutoring and Practice**

3 cr. Undergraduate/Graduate.

Students explore their own writing practices in light of rhetorical theory and learn to tutor others.

**Prerequisites:** jr st; satisfaction of English Composition competency req. & English 201(P), 202(P), 205(P), 206(P), 207(P), or 233(P) w/grade of B- or better or cons instr; or grad st.

**Last Taught:** Spring 2007, UWinteriM 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 440G Introduction to Peer Tutoring and Practice**

3 cr. Undergraduate/Graduate.

Students explore their own writing practices in light of rhetorical theory and learn to tutor others.

**Prerequisites:** jr st; satisfaction of English Composition competency req. & English 201(P), 202(P), 205(P), 206(P), 207(P), or 233(P) w/grade of B- or better or cons instr; or grad st.

**Last Taught:** Spring 2007, UWinteriM 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 441 Advanced Peer Tutoring Theory and Practice**

3 cr. Undergraduate/Graduate.

Students will examine various theories of literacy and learning, applying these theories to peer tutoring practice and testing their sufficiency through case-study research.

**Prerequisites:** English 440(P) or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 441G Advanced Peer Tutoring Theory and Practice**

3 cr. Undergraduate/Graduate.

Students will examine various theories of literacy and learning, applying these theories to peer tutoring practice and testing their sufficiency through case-study research.

**Prerequisites:** English 440(P) or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 442 Writing Center Tutoring Practicum**

1 cr. Undergraduate/Graduate.

For prospective tutors, a foundation of concentrated study and practice to begin tutoring in UWM's Writing Center.

**Prerequisites:** jr st; cons instr.

**Last Taught:** Fall 2018, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 442G Writing Center Tutoring Practicum**

1 cr. Undergraduate/Graduate.

For prospective tutors, a foundation of concentrated study and practice to begin tutoring in UWM's Writing Center.

**Prerequisites:** jr st; cons instr.

**Last Taught:** Fall 2018, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 443 Grant Writing**

3 cr. Undergraduate/Graduate.

Theory, methods, and practice in writing clear, concise grant proposals and related documents; audience analysis, rhetorical approaches, research methods, and online grantseeking.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** Counts as repeat of English 431 w/same topic. Req'd service learning component.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 443G Grant Writing**

3 cr. Undergraduate/Graduate.

Theory, methods, and practice in writing clear, concise grant proposals and related documents; audience analysis, rhetorical approaches, research methods, and online grantseeking.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** Counts as repeat of English 431 w/same topic. Req'd service learning component.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 444 Technical Editing**

3 cr. Undergraduate/Graduate.

Theories, methods, and practice in editing professional and technical documents; grammar and usage; copyediting and comprehensive editing; editor-writer relationship; rhetorical, social, and audience analysis.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** Counts as repeat of English 431 w/same topic.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 444G Technical Editing**

3 cr. Undergraduate/Graduate.

Theories, methods, and practice in editing professional and technical documents; grammar and usage; copyediting and comprehensive editing; editor-writer relationship; rhetorical, social, and audience analysis.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** Counts as repeat of English 431 w/same topic.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 445 The Composing Process:**

3 cr. Undergraduate/Graduate.

Issues in composition studies, such as the theory and practice of writing, evaluation and assessment, and collaborative learning.

**Prerequisites:** jr st, satisfaction of GER English Composition competency req, or cons instr; or grad st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max for undergrads or 6 cr max for grads.

**Last Taught:** Fall 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 445G The Composing Process:**

3 cr. Undergraduate/Graduate.

Issues in composition studies, such as the theory and practice of writing, evaluation and assessment, and collaborative learning.

**Prerequisites:** jr st, satisfaction of GER English Composition competency req, or cons instr; or grad st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max for undergrads or 6 cr max for grads.

**Last Taught:** Fall 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 446 Global Business Communications**

3 cr. Undergraduate.

Instruction and practice in business writing in the global context. Particularly appropriate for students in business and international studies.

**Prerequisites:** jr st; Satisfaction of OWC-A.

**Course Rules:** May not be taken cr/no cr. Counts as repeat of English 214 or 431 w/same topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 448 Technical Communications Theory and Practice**

3 cr. Undergraduate.

Orientation to the technical communications field through service learning experience in which students write for organizations. Application of technical communications theory to practice.

**Prerequisites:** jr st; completion of GER English Composition competency req; conc reg in English 398(C).

**Course Rules:** Service Learning course.

**Last Taught:** Fall 2023, Fall 2018, Fall 2014, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 449 Internship in the Humanities**

1-4 cr. Undergraduate.

Experience in a professional setting that enables students to apply course work and skills and to gain experience toward career goals.

**Prerequisites:** jr st; satisfaction of OWC-A; C or better GPA so far in the student's major.

**Course Rules:** May be retaken to 9 cr. max.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 452 Shakespeare**

3 cr. Undergraduate/Graduate.

Works representing Shakespeare's career, selected from comedies, tragedies, histories, and poems.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be used as a repeat of 453 for students who have not taken English 452 previously.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 452G Shakespeare**

3 cr. Undergraduate/Graduate.

Works representing Shakespeare's career, selected from comedies, tragedies, histories, and poems.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be used as a repeat of 453 for students who have not taken English 452 previously.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 454 Milton**

3 cr. Undergraduate/Graduate.

Milton's English poetry and selections from his prose.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 454G Milton**

3 cr. Undergraduate/Graduate.

Milton's English poetry and selections from his prose.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 456 Writers in English Literature, 1500-1660:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Summer 2009, Spring 1990.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 456G Writers in English Literature, 1500-1660:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Summer 2009, Spring 1990.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 457 Writers in English Literature, 1660-1798:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2017, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 457G Writers in English Literature, 1660-1798:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2017, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 458 Writers in English Literature, 1798-1900:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2016, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 458G Writers in English Literature, 1798-1900:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2016, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 459 Writers in English Literature, 1900 to the Present:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2012, Summer 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 459G Writers in English Literature, 1900 to the Present:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2012, Summer 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 460 Writers in American Literature, 1500-1900:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 460G Writers in American Literature, 1500-1900:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 461 Writers in American Literature, 1900 to the Present:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2021, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 461G Writers in American Literature, 1900 to the Present:**

3 cr. Undergraduate/Graduate.

A significant literary figure or figures in the context of the period.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2021, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 463 Writers in African-American Literature:**

3 cr. Undergraduate/Graduate.

A significant figure or figures in African-American literature.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**General Education Requirements:** CD**Last Taught:** Spring 2011, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ENGLISH 463G Writers in African-American Literature:**

3 cr. Undergraduate/Graduate.

A significant figure or figures in African-American literature.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** CD

**Last Taught:** Spring 2011, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 465 Women Writers:**

3 cr. Undergraduate/Graduate.

One or more significant women writers.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 465G Women Writers:**

3 cr. Undergraduate/Graduate.

One or more significant women writers.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2022, Fall 2021, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req, add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2002, Spring 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 504 Studies in Literature, 1660-1800:**

3 cr. Undergraduate/Graduate.

Major genres, themes, figures and trends in the literature of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 504G Studies in Literature, 1660-1800:**

3 cr. Undergraduate/Graduate.

Major genres, themes, figures and trends in the literature of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 505 Studies in Literature, 1800-1900:**

3 cr. Undergraduate/Graduate.

Major genres, themes, figures and trends in the literature of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2007, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 505G Studies in Literature, 1800-1900:**

3 cr. Undergraduate/Graduate.

Major genres, themes, figures and trends in the literature of the period.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2007, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 514 Literature in Context:**

3 cr. Undergraduate.

Critical study of literary works in philosophical, social, scientific, or theological context.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg of topic to 9 cr max.

**Last Taught:** Fall 2014, Spring 2014, Spring 2012, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 515 Literature and the Other Arts:**

3 cr. Undergraduate/Graduate.

Critical study of literary works in combination with works from the other arts.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg of topic to 9 cr max.

**Last Taught:** Spring 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 515G Literature and the Other Arts:**

3 cr. Undergraduate/Graduate.

Critical study of literary works in combination with works from the other arts.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg of topic to 9 cr max.

**Last Taught:** Spring 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 517 Studies in African-American Literature:**

3 cr. Undergraduate/Graduate.

Major genres, themes, figures and trends in African-American literature.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** CD

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 517G Studies in African-American Literature:**

3 cr. Undergraduate/Graduate.

Major genres, themes, figures and trends in African-American literature.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** CD

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 518 Studies in Irish Literature:**

3 cr. Undergraduate/Graduate.

Major genres, themes, figures and trends in Irish literature.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2003, Spring 1988.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 518G Studies in Irish Literature:**

3 cr. Undergraduate/Graduate.

Major genres, themes, figures and trends in Irish literature.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2003, Spring 1988.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 520 Studies in American Indian Literature:**

3 cr. Undergraduate.

Critical study of themes, figures, aspects, trends, etc., in American Indian literature.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** AIS 520 & English 520 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/chg of topic to 9 cr max.

**General Education Requirements:** CD

**Last Taught:** Fall 2020, Spring 2015, Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 522 Studies in World Literature Written in English:**

3 cr. Undergraduate.

Critical study of themes, figures, aspects, trends, etc., in the literature of a particular region of the English-speaking world.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg of topic to 9 cr max.

**Last Taught:** Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 523 Studies in U.S. Latino/a Literature:**

3 cr. Undergraduate.

Critical study of themes, figures, aspects, trends, etc., in U.S. Latino/a literature.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max. English 523 & Latino 523 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Last Taught:** Spring 2020, Spring 2017, Spring 2013, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 524 Studies in Asian-American Literature:**

3 cr. Undergraduate.

Critical study of themes, figures, aspects, trends, etc., in Asian-American literature

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg of topic to 9 cr max.

**General Education Requirements:** CD

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 547 Studies in Theory and Criticism:**

3 cr. Undergraduate/Graduate.

Topics, trends, or approaches in theory and criticism.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 547G Studies in Theory and Criticism:**

3 cr. Undergraduate/Graduate.

Topics, trends, or approaches in theory and criticism.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 567 Materials and Curriculum for TESOL**

3 cr. Undergraduate.

Designed for prospective ESL/EFL teachers. Focus on planning and designing courses to meet the needs of specific populations of language learners.

**Prerequisites:** junior standing or above and LINGUIS 441(P) (previously LINGUIS 565).

**Course Rules:** ENGLISH 567 and LINGUIS 567 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2010, Spring 2009, Spring 2008, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 569 Practicum in Teaching ESL to Adult Learners**

3 cr. Undergraduate.

A structured, supervised practicum in language teaching to students in the adult/university TESOL certificate program.

**Prerequisites:** junior standing or above, LINGUIS 441(P) (previously 565) and LINGUIS 510(P) (previously 410).

**Course Rules:** ENGLISH 569 and LINGUIS 569 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2013, Spring 2009, Spring 2007, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 575 The Story Experience**

3 cr. Undergraduate/Graduate.

Engages UWM and Marquette students in partnership with a Milwaukee-based organization to facilitate story-sharing in a range of forms over the course of a full academic year.

**Prerequisites:** junior or senior standing.

**Course Rules:** Repeatable to 12 cr max. Students must be enrolled at UWM both fall and spring semester, and attend a two-day retreat.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 575G The Story Experience**

3 cr. Undergraduate/Graduate.

Engages UWM and Marquette students in partnership with a Milwaukee-based organization to facilitate story-sharing in a range of forms over the course of a full academic year.

**Prerequisites:** junior or senior standing.

**Course Rules:** Repeatable to 12 cr max. Students must be enrolled at UWM both fall and spring semester, and attend a two-day retreat.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 615 Advanced Workshop in Fiction**

3 cr. Undergraduate/Graduate.

Intensive workshop critiques of student writing. Content varies.

**Prerequisites:** sr st, English 415(P), one of second section of English 415(P) or English 414(P) or 416(P), satisfaction of English composition competency; or grad st.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 615G Advanced Workshop in Fiction**

3 cr. Undergraduate/Graduate.

Intensive workshop critiques of student writing. Content varies.

**Prerequisites:** sr st, English 415(P), one of second section of English 415(P) or English 414(P) or 416(P), satisfaction of English composition competency; or grad st.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 616 Advanced Workshop in Poetry:**

3 cr. Undergraduate/Graduate.

Intensive workshop critiques of student writing. Content varies.

**Prerequisites:** senior standing, 3 cr in ENGLISH 416(P), one of second section of ENGLISH 416(P), ENGLISH 414(P) or ENGLISH 415(P), and consent of instructor based on writing sample; or graduate standing.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 616G Advanced Workshop in Poetry:**

3 cr. Undergraduate/Graduate.

Intensive workshop critiques of student writing. Content varies.

**Prerequisites:** senior standing, 3 cr in ENGLISH 416(P), one of second section of ENGLISH 416(P), ENGLISH 414(P) or ENGLISH 415(P), and consent of instructor based on writing sample; or graduate standing.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 622 Seminar in Irish Literature:**

3 cr. Undergraduate/Graduate.

Specific themes, critical or aesthetic issues, or generic development, in one or more periods of Irish literature.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 622G Seminar in Irish Literature:**

3 cr. Undergraduate/Graduate.

Specific themes, critical or aesthetic issues, or generic development, in one or more periods of Irish literature.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 623 Seminar in American Literature:**

3 cr. Undergraduate/Graduate.

Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of American literature.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req; 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 623G Seminar in American Literature:**

3 cr. Undergraduate/Graduate.

Focus upon specific themes, critical or aesthetic issues, or generic development, in one or more periods of American literature.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req; 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 624 Seminar in Modern Literature:**

3 cr. Undergraduate/Graduate.

Focus upon specific themes, critical or aesthetic issues, or significant innovations in modern literature, viewed in a cross-cultural or contemporary context.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 624G Seminar in Modern Literature:**

3 cr. Undergraduate/Graduate.

Focus upon specific themes, critical or aesthetic issues, or significant innovations in modern literature, viewed in a cross-cultural or contemporary context.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 625 Seminar in Literary History:**

3 cr. Undergraduate/Graduate.

An intensive study of literature within its historical dimension, stressing the goals and methods of historical criticism and research in connection with specific periods, topics or traditions.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 625G Seminar in Literary History:**

3 cr. Undergraduate/Graduate.

An intensive study of literature within its historical dimension, stressing the goals and methods of historical criticism and research in connection with specific periods, topics or traditions.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 626 Seminar in Critical Theory:**

3 cr. Undergraduate/Graduate.

An investigation into one or more critical theories and their contribution to the study of literature.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2016, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 626G Seminar in Critical Theory:**

3 cr. Undergraduate/Graduate.

An investigation into one or more critical theories and their contribution to the study of literature.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2016, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 627 Seminar in Literature and Culture:**

3 cr. Undergraduate/Graduate.

Intensive study of literature within its cultural context, stressing goals and methods of cultural criticism and research in connection with specific issues or topics.

**Prerequisites:** senior standing, satisfaction of GER English Composition competency requirement, 9 cr ENGLISH and/or COMPLIT courses at the 300-level or above; or graduate standing.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 627G Seminar in Literature and Culture:**

3 cr. Undergraduate/Graduate.

Intensive study of literature within its cultural context, stressing goals and methods of cultural criticism and research in connection with specific issues or topics.

**Prerequisites:** senior standing, satisfaction of GER English Composition competency requirement, 9 cr ENGLISH and/or COMPLIT courses at the 300-level or above; or graduate standing.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 628 Seminar in Literature by Women:**

3 cr. Undergraduate/Graduate.

Focus on major writers or themes, or on a body of work that represents a variety of perspectives on gender issues.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 628G Seminar in Literature by Women:**

3 cr. Undergraduate/Graduate.

Focus on major writers or themes, or on a body of work that represents a variety of perspectives on gender issues.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 629 Seminar in Literature and Sexuality:**

3 cr. Undergraduate/Graduate.

Intensive study of the relationship between literature and human sexuality, focusing on particular periods, topics, or critical and aesthetic issues.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2015, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 629G Seminar in Literature and Sexuality:**

3 cr. Undergraduate/Graduate.

Intensive study of the relationship between literature and human sexuality, focusing on particular periods, topics, or critical and aesthetic issues.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2015, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 630 Seminar in Literature and the Other Arts:**

3 cr. Undergraduate/Graduate.

Selections from literature in connection with works from the other arts ranging from the Middle Ages to the present, stressing the importance of an inter-arts perspective.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2017, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 630G Seminar in Literature and the Other Arts:**

3 cr. Undergraduate/Graduate.

Selections from literature in connection with works from the other arts ranging from the Middle Ages to the present, stressing the importance of an inter-arts perspective.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English and/or Complit courses at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2017, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 631 Seminar in African-American Literature:**

3 cr. Undergraduate/Graduate.

Focus upon major writers or themes, or on a body of work that represents a variety of perspectives on African-American experience.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English &/or Complit at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 631G Seminar in African-American Literature:**

3 cr. Undergraduate/Graduate.

Focus upon major writers or themes, or on a body of work that represents a variety of perspectives on African-American experience.

**Prerequisites:** sr st, satisfaction of GER English Composition competency req, 9 cr English &/or Complit at the 300-level or above; or grad st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 632 Seminar in American Indian Literature:**

3 cr. Undergraduate/Graduate.

Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian.

**Prerequisites:** senior standing, satisfaction of GER English Composition competency req, 9 cr ENGLISH and/or COMPLIT at the 300-level or above; or graduate standing.

**Course Rules:** AIS 632 and ENGLISH 632 are jointly offered; with the same topic, they count as repeats of one another. May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 632G Seminar in American Indian Literature:**

3 cr. Undergraduate/Graduate.

Focus on major forms, prominent themes, or tribal traditions in the literature of the American Indian.

**Prerequisites:** senior standing, satisfaction of GER English Composition competency req, 9 cr ENGLISH and/or COMPLIT at the 300-level or above; or graduate standing.

**Course Rules:** AIS 632 and ENGLISH 632 are jointly offered; with the same topic, they count as repeats of one another. May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 633 Seminar in Rhetoric and Professional Writing:**

3 cr. Undergraduate/Graduate.

Examination of a topic in rhetorical theory and its intersections with related fields such as cultural studies, professional writing, literacy theory, or composition studies.

**Prerequisites:** senior standing, satisfaction of GER English Composition competency requirement, 9 cr ENGLISH or COMPLIT courses at the 300-level or above; or graduate standing.

**Course Rules:** May be retaken with change in topic to 6 cr max. Satisfies L&S Seminar requirement.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 633G Seminar in Rhetoric and Professional Writing:**

3 cr. Undergraduate/Graduate.

Examination of a topic in rhetorical theory and its intersections with related fields such as cultural studies, professional writing, literacy theory, or composition studies.

**Prerequisites:** senior standing, satisfaction of GER English Composition competency requirement, 9 cr ENGLISH or COMPLIT courses at the 300-level or above; or graduate standing.

**Course Rules:** May be retaken with change in topic to 6 cr max. Satisfies L&S Seminar requirement.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 669 Screening Sexuality:**

3 cr. Undergraduate/Graduate.

Relationship between discourses of sexuality and media artifacts/texts. Historical/theoretical approaches to apprehend construction and representation of sexuality/sexual identities in media.

**Prerequisites:** junior standing.

**Course Rules:** Retakable with change in topic to 9 cr max. Counts as a repeat of ENGLISH 312 with the same topic. ENGLISH 669 and FILMSTD 669 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 669G Screening Sexuality:**

3 cr. Undergraduate/Graduate.

Relationship between discourses of sexuality and media artifacts/texts. Historical/theoretical approaches to apprehend construction and representation of sexuality/sexual identities in media.

**Prerequisites:** junior standing.

**Course Rules:** Retakable with change in topic to 9 cr max. Counts as a repeat of ENGLISH 312 with the same topic. ENGLISH 669 and FILMSTD 669 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 685 Honors Seminar:**

3 cr. Undergraduate.

Investigation in depth of a period, figure, theme, or genre in English or American literature.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.**Course Rules:** May be retaken with change in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 690 Seminar in Contemporary Cinema and Media:**

3 cr. Undergraduate.

Contemporary theories and criticism of cinema, TV and the Internet since 1960. Approaches considered include semiotics, structuralism, Marxism, feminism, psychoanalysis, cultural studies, queer theory.

**Prerequisites:** senior standing and ENGLISH 390(P) or ENGLISH 391(P).

**Course Rules:** Retakable with change in topic to 6 cr max. ENGLISH 690 and FILMSTD 690 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 699 Independent Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of an English faculty or instructional academic staff member. Student must submit a study proposal. For further information, consult assistant chair/undergraduate program coord.

**Prerequisites:** jr st; satisfaction of GER English Composition competency requirement; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023, Spring 2022, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 700 Teaching Writing Practicum**

1 cr. Graduate.

One-hour weekly practicum for new GTAs teaching first-year composition.

**Prerequisites:** grad st; cons instr**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 701 Writing Pedagogies**

3 cr. Graduate.

Theories and practices of college composition pedagogy.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2023, Summer 2022, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 702 English Graduate Institute:**

3 cr. Graduate.

A multisection modular summer course in three tracks: literature, english language, and composition. Six three-week sections are offered.

**Prerequisites:** grad st.

**Course Rules:** Students may enrol for a max of 2 sections each summer. Retakable w/chg in topic to 12 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 703 Introduction to Graduate Studies in Literature**

1 cr. Graduate.

Orientation to best practices, scholarly work, and current debates in primary fields of research in the discipline of literature and cultural theory.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 704 Teaching Creative Writing**

3 cr. Graduate.

Approaches to the teaching of creative writing at elementary, high school or college levels.

**Prerequisites:** grad st.**Course Rules:** Consult instr to determine emphasis & range.**Last Taught:** Fall 2023, Fall 2022, Fall 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 705 Public Rhetorics and Community Engagement Colloquium**

1 cr. Graduate.

Colloquium in public rhetorics, professional writing, and community engagement. Investigation of disciplinary foundations and professional concerns in public rhetorics, professional writing, and community engagement.

**Prerequisites:** grad st or cons instr.**Course Rules:** Retakable.**Last Taught:** Spring 2021, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 706 Seminar in Professional Writing Theory and Pedagogy**

3 cr. Graduate.

Theory and application of various approaches to teaching technical and business writing on the college and university level.

**Prerequisites:** grad st.**Last Taught:** Fall 2017, Fall 2016, Spring 2014, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 708 Advanced Professional Writing**

3 cr. Graduate.

Seminar on the theory and development of students' professional approaches to writing, research on professional writing genres, and intensive analysis and editorial revisions of documents.

**Prerequisites:** grad st.**Course Rules:** Not open to students with grad cr in English 435(ER).**Last Taught:** Fall 2018, Spring 2010, Fall 2008, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 709 Rhetoric, Writing, and Information Technology**

3 cr. Graduate.

Seminar on theory and research concerning audiences and information architecture for on-line discourse, instructional design, e-learning, documentation systems, hypertext, mark-up languages, cultural factors, and Web site development.

**Prerequisites:** grad st.**Course Rules:** Not open to students with grad cr in English 436(ER).**Last Taught:** Fall 2017, Fall 2016, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 710 Advanced Project Management for Professional Writers**

3 cr. Graduate.

Seminar on the theoretical issues, empirical findings, and advanced strategies for project management; research, task analysis, planning, collaboration, problem solving, document design, usability testing and quality evaluation.

**Prerequisites:** grad st.**Course Rules:** Not open to students w/ grad cr in English 437(ER).**Last Taught:** Fall 2015, Spring 2014, Spring 2012, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 711 Topics in Public and Professional Writing:**

3 cr. Graduate.

Special topics seminar in the history, theory, pedagogy, or practice of writing. Special focus on public and workplace literacy.

**Prerequisites:** grad st.**Course Rules:** Retakable w/ chg in topic to 9 cr max.**Last Taught:** Spring 2021, Spring 2013, Summer 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 712 Theories in Public Rhetorics and Community Engagement:**

3 cr. Graduate.

Seminar on the major theoretical perspectives influencing the field of public rhetorics and community engagement.

**Prerequisites:** graduate standing.**Course Rules:** Retakeable with change in topic to 6 cr max.**Last Taught:** Fall 2023, Fall 2021, Spring 2020, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 713 Research Methods in Rhetorics, Literacies, and Community Engagement:**

3 cr. Graduate.

Seminar on the issues and practice of qualitative research as it applies to areas of inquiry related to rhetoric, writing and literacy.

**Prerequisites:** graduate standing.**Course Rules:** Retakeable with change in topic to 6 cr max.**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 714 Usability Studies**

3 cr. Graduate.

Seminar on history and theory of usability studies and advanced practice in usability assessment and testing.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 715 Narrative Craft and Theory:**

3 cr. Graduate.

Analysis of selected prose narratives with emphasis on technical, generic, and aesthetic features.

**Prerequisites:** grad st or cons coord of Creative Writing.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 716 Poetic Craft and Theory:**

3 cr. Graduate.

Analysis of selected poems with emphasis on technical, generic, and aesthetic features.

**Prerequisites:** grad st or cons coord of creative writing.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 720 Modern Literary Theory**

3 cr. Graduate.

A graduate-level introduction to the major critical and theoretical perspectives of the 20th century.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 740 Approaches to the Modern I**

3 cr. Graduate.

Seminar on major figures and intellectual forces that have shaped multiple approaches to the modern across the academy.

**Prerequisites:** grad st.**Course Rules:** English 740, Hist 740, & MALLT 740 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2021, Spring 2017, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 741 Approaches to the Modern II**

3 cr. Graduate.

Seminar on major figures and intellectual forces that have shaped approaches to the modern across periods.

**Prerequisites:** grad st.**Course Rules:** English 741, Hist 741 & MALLT 741 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2022, Spring 2020, Spring 2019, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 742 Media Studies**

3 cr. Graduate.

A graduate level introduction to media studies, with an emphasis on theories of and approaches to media.

**Prerequisites:** graduate standing.**Course Rules:** ENGLISH 742 & FILMSTD 742 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2021, Fall 2019, Fall 2017, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 743 Film Theory and Criticism**

3 cr. Graduate.

A graduate-level introduction to film studies, including film theory, methods of film analysis, and approaches to the history of film.

**Prerequisites:** graduate standing.**Course Rules:** ENGLISH 743 & FILMSTD 743 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2021, Spring 2019, Fall 2016, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 747 Proseminar in Media, Cinema, and Digital Studies**

1 cr. Graduate.

Proseminar in media, cinema, and digital to orient and mentor students on best practices, scholarly work, and current debates in the field.

**Prerequisites:** graduate standing.**Course Rules:** Repeatable to 4 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 749 Advanced Internship in Writing and Community Engagement**

1-6 cr. Graduate.

Practicum in writing and community engagement enabling students to develop new skills and credentials while learning how best to test theory through practice and apply theory to practice.

**Prerequisites:** graduate standing; consent of instructor.**Course Rules:** Repeatable to 6 cr max.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 750 History of Rhetoric and Writing Studies:**

3 cr. Graduate.

Background in historic rhetorical traditions and critical commentary on those traditions.

**Prerequisites:** graduate standing.**Course Rules:** Retakeable with change in topic to 6 cr max.**Last Taught:** Fall 2023, Spring 2022, Fall 2019, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 751 History of Rhetoric II:**

3 cr. Graduate.

Study of central themes, concepts, and issues after the classical period.

**Prerequisites:** grad st; English 750(P).**Course Rules:** Retakable w/chg in topic to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 752 Essay as Genre**

3 cr. Graduate.

A study of the tradition of the essay in England and America and its relation to rhetoric and composition.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 753 Contemporary Rhetorical Theory**

3 cr. Graduate.

Survey of rhetorical theory in contemporary scholarship, criticism, and research, with special emphasis on the development of rhetorical concepts and composition studies.

**Prerequisites:** grad st; English 750(P) or cons instr.**Last Taught:** Spring 2018, Fall 2013, Spring 2010, Fall 1991.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 754 Post-Secondary Composition-Topics in Pedagogical Theory:**

3 cr. Graduate.

Topics in pedagogical theory applicable to teaching post-secondary composition, such as the composing process, discourse, analysis, literacy, or writing assessment.

**Prerequisites:** grad st & English 701(P), or equiv post-secondary teaching experience, or cons instr.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 755 Issues in Writing Research:**

3 cr. Graduate.

Analysis of major issues in rhetoric and writing within historical and theoretical contexts.

**Prerequisites:** graduate standing.**Course Rules:** Retakeable with change in topic up to 9 credits.**Last Taught:** Fall 2022, Fall 2020, Spring 2017, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 758 Writing Workshop in Rhetoric and Composition**

3 cr. Graduate.

Graduate-level course on writing and the critique of writing practice.

**Prerequisites:** grad st.**Last Taught:** Spring 2016, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 771 Literature of the English Renaissance:**

3 cr. Graduate.

Introduction to the literature of the english renaissance, emphasizing current critical issues.

**Prerequisites:** graduate standing.**Course Rules:** Retakable with change in topic to 6 cr max.**Last Taught:** Spring 2022, Spring 2007, Fall 2002, Spring 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 772 Restoration and Eighteenth-Century Literature:**

3 cr. Graduate.

Introduction to English literature, 1660-1800, and related scholarship, emphasizing current critical issues.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Fall 2017, Spring 2015, Fall 2007, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 774 Literature in Victorian England:**

3 cr. Graduate.

Introduction to English literature, 1837-1901, emphasizing current critical issues.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2013, Fall 2008, Fall 1997, Fall 1991.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 775 Modern English Literature:**

3 cr. Graduate.

Introduction to English literature of the 20th century, emphasizing current critical issues.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2021, Fall 2016, Spring 2014, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ENGLISH 776 Women Writers:**

3 cr. Graduate.

A course focusing on the major women writers of a period or genre, or in relation to specified themes.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2020, Fall 2019, Spring 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 777 American Literature to 1830:**

3 cr. Graduate.

Introduction to American literature to 1830, with related scholarship, emphasizing current critical issues.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Spring 2010, Fall 2006, Fall 2004, Fall 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 778 Native American Literature:**

3 cr. Graduate.

Introduction to the literature of the American Indian, emphasizing critical approaches and relevant scholarship.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2021, Fall 2019, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 779 American Literature, 1830-1900:**

3 cr. Graduate.

Introduction to American literature from 1830-1900, emphasizing current critical issues.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2014, Spring 2011, Spring 2004, Spring 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 780 African American Literature:**

3 cr. Graduate.

Introduction to the major writers and themes in African American literature, emphasizing current critical issues.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2010, Fall 2007, Spring 2002, Spring 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 781 Modern American Literature:**

3 cr. Graduate.

Introduction to American literature of the 20th century, emphasizing current critical issues.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2014, Spring 2009, Fall 2001, Spring 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 782 Contemporary Literature:**

3 cr. Graduate.

Introduction to recent developments in English and American literature, emphasizing new writers and significant literary innovations.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2016, Spring 2015, Spring 2013, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 783 World Literature in English:**

3 cr. Graduate.

A course focusing on the major writers, themes and traditions of national/ethnic groups outside England and the United States.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 6 cr max.

**Last Taught:** Spring 2023, Spring 2009, Spring 2002, Spring 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 784 Topics in Transnational Literature**

3 cr. Graduate.

Texts, concepts, topics, and/or theoretical issues in literature from a transnational perspective.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2021, Spring 2019, Spring 2018, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 790 Master's Project**

1-6 cr. Graduate.

Research towards the MA final project.; schedule and requirements developed in consultation with program advisor.

**Prerequisites:** 12 cr in English MA Prog; cons advisor.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 798 Graduate-Level Service Learning**

1 cr. Graduate.

Faculty-supervised placement of students as community service volunteers.

**Prerequisites:** grad st or cons instr; conc reg in English 700-level or above service learning course.

**Course Rules:** Retakable to 3 cr max.

**Last Taught:** Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 799 Independent Reading for Master's Candidates**

1-4 cr. Graduate.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 812 Seminar in Theories of Composition and Rhetoric:**

3 cr. Graduate.

A graduate-level introduction to the history and current development of rhetoric and composition theory, and to their applications in research in written composition.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2018, Fall 2013, Fall 2011, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 813 Special Topics in Creative Writing:**

3 cr. Graduate.

Readings, writing, and discussion in a designated genre, form, or literary tradition.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Spring 2016, Spring 2014, Fall 2013, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 814 Seminar in Irish Literature:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2012, Spring 2007, Spring 2005, Spring 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 815 Seminar in Fiction Writing:**

3 cr. Graduate.

Content varies. A workshop for graduate students.

**Prerequisites:** graduate standing and ENGLISH 715(P).**Course Rules:** Retakable to 6 cr max.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 816 Seminar in Poetry Writing:**

3 cr. Graduate.

Content varies. A workshop for advanced graduate students.

**Prerequisites:** grad st; English 716(P).**Course Rules:** Retakable to 6 cr max.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 817 Seminar in Critical Writing**

3 cr. Graduate.

An advanced workshop in the writing and revising of critical essays.

**Prerequisites:** grad st.**Last Taught:** Fall 2020, Spring 2019, Spring 2012, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 819 Project in Creative Writing**

1-6 cr. Graduate.

Content varies.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max. Open only to MA candidates in Plan C, creative writing.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 820 Seminar in Advanced Topics in Literary Criticism and Research:**

1-3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 822 Seminar in Poetry:**

3 cr. Graduate.

An intensive examination of some aspect of the genre, including questions of history, theory, theme, or technique, or the study of major figures.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2008, Spring 2004, Spring 2000, Spring 1996.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 824 Seminar in Special Topics in Literature:**

3 cr. Graduate.

Advanced study of a topic in literary history, criticism or theory.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2015, Fall 2011, Spring 2010, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 825 Seminar in Major Figures:**

3 cr. Graduate.

Topics vary. Poetry, fiction, drama, and non-fiction prose writers, with attention to biography, culture and literary background.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2018, Fall 2014, Spring 2012, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 827 Seminar in Contemporary Literature:**

3 cr. Graduate.

Advanced study of a specialized topic or critical issue in the recent work of contemporary writers in english.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 828 Seminar in Comparative Literature:**

3 cr. Graduate.

Advanced study of a specialized topic or critical issue in the literatures of two or more languages and/or national traditions.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 843 Seminar in Renaissance Prose and Poetry:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 1991, Fall 1987, Fall 1986.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 845 Seminar in Shakespeare:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2014, Spring 2008, Fall 1998, Fall 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 853 Seminar in Contemporary Rhetorical Theory:**

1-3 cr. Graduate.

Issues, topics, and major figures in contemporary rhetoric, philosophies of composition, critical discourse, and theories of writing.

**Prerequisites:** grad st; English 750(P); English 753(P) or 755(P).**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2015, Spring 2012, Spring 2009, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 854 Seminar in College Writing Pedagogy:**

3 cr. Graduate.

Professional concerns in teaching college writing; develops various topics in-depth, such as cultural literacy or large-scale assessment.

**Prerequisites:** graduate standing; 6 cr at 700-level, including ENGLISH 706(P), ENGLISH 754(P), or ENGLISH 755(P).**Course Rules:** Retakeable with change in topic to 9 cr max.**Last Taught:** Spring 2022, Spring 2018, Fall 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 855 Seminar in Public Rhetorics and Community Engagement:**

3 cr. Graduate.

Theories of public rhetorics and community engagement. The effects of institutional structures and organizational cultures on writers and rhetoric.

**Prerequisites:** graduate standing; ENGLISH 706(P), and ENGLISH 753(P) or ENGLISH 756(P).**Course Rules:** Retakable with change in topic to 9 cr max.**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 858 Seminar in Professional and Literary Nonfiction:**

3 cr. Graduate.

Advanced study of publications and audiences in nonfiction; intensive writing and research in scholarship, education, the arts, human services, business, and government.

**Prerequisites:** grad st; English 758(p).**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2013, Fall 2000, Spring 1997, Spring 1993.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 861 Seminar in Romantic Literature:**

3 cr. Graduate.

This seminar will examine one or more aspects of english romanticism as expressed in the poetry and essays of the age.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2000, Fall 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 862 Seminar in Victorian Literature:**

3 cr. Graduate.

Advanced studies in victorian poetry, fiction, drama, and non-fiction prose, with attention to culture and critical theory.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2019, Spring 2016, Fall 2006, Fall 1990.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 869 Practicum in Teaching ESL to Adult Learners**

1-6 cr. Graduate.

Field experience in teaching English as a second language to adult learners.

**Prerequisites:** graduate standing, completion of LINGUIS 741 (previously 767) and LINGUIS 810 (formerly 410G), and program director consent.**Course Rules:** Repeatable to 6 cr max. Previously LINGUIS 789 and ENGLISH 789. LINGUIS 869 and ENGLISH 869 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2009, Spring 2008, Spring 2007, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 871 Seminar in African American Literature:**

3 cr. Graduate.

Intensive examination of one or more major writers, themes, or critical topics in the literature of African Americans.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2017, Spring 2010, Spring 2008, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 872 Seminar in Women Writers:**

3 cr. Graduate.

Intensive examination of one or more major writers, themes, or critical topics.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 874 Seminar in World Literature in English:**

3 cr. Graduate.

Advanced study of one or more major writers or special topics in the literature outside england and the united states.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Fall 2013, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 875 Seminar in Modern Literature:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2023, Fall 2020, Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 876 Seminar in Media Studies:**

3 cr. Graduate.

Seminar focused on a topic related to media culture or specific forms of media.

**Prerequisites:** graduate standing.**Course Rules:** Retakable with change in topic to 9 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 877 Seminar in Film Studies:**

3 cr. Graduate.

Focused on a topic in cinema or film history, theory, or criticism.

**Prerequisites:** graduate standing.**Course Rules:** Retakable with change in topic to 9 cr max.**Last Taught:** Fall 2023, Spring 2022, Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ENGLISH 878 Seminar in Feminist Critical Theory:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Fall 2022, Fall 2021, Spring 2020, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 879 Seminar in Native American Literature:**

3 cr. Graduate.

Intensive examination of one or more major writers, themes, or critical topics in the literature of native americans.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2020, Fall 2013, Fall 2009, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 881 Seminar in Colonial American Literature:**

3 cr. Graduate.

Advanced studies in the literature of colonial america with special attention to cultural and literary backgrounds and critical theory.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 882 Seminar in Nineteenth-Century American Literature:**

3 cr. Graduate.

Retakable w/chg in topic to 6 cr max. Prereq: grad st

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2023, Spring 2021, Fall 2017, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 883 Seminar in Twentieth-Century American Literature:**

3 cr. Graduate.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2018, Spring 2011, Spring 2003, Fall 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 885 Seminar in Critical Theory:**

3 cr. Graduate.

A graduate-level seminar in one or more major theoretical models, methods, or approaches.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 2022, Spring 2020, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 887 Seminar in Digital Studies:**

3 cr. Graduate.

Seminar focused on a topic in digital media and culture.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as repeat of ENGLISH 876 with the same topic.

Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 888 Candidate for Degree**

0 cr. Graduate.

Available for students who must meet minimum credit requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2021, Summer 2021, Fall 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 903 Presenting STEM**

1 cr. Graduate.

Development of facility with oral presentations of research results to a wide variety of venues including conferences, public lectures, and job talks.

**Prerequisites:** grad st, English 901(R)

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 990 Research in English**

1-3 cr. Graduate.

Reserved for research in connection with doctoral thesis.

**Prerequisites:** admis to Ph.D. prog & completion of 45 grad cr.

**Course Rules:** Retakable as necessary to fulfill thesis requirements.

Consult coord grad studies.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ENGLISH 999 Independent Reading for Ph.D. Candidates**

1-3 cr. Graduate.

Consult graduate advisor.

**Prerequisites:** admis to Ph.D. candidacy.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## English for Academic Purposes (Formerly ESL) (EAP)

**EAP 100 Introduction to College Writing for Multilingual Students**

4 cr. Undergraduate.

Opportunities for multilingual students to improve their analytical reading and academic writing skills while offering intensive language work and individualized instruction.

**Prerequisites:** Level 2 earned via TOEFL, IELTS or other tests approved by EAP; or level 1 earned via ACT, SAT or Guided English Placement (GEP); or grade of C or better in EAP 110(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAP 101 College Writing for Multilingual Students/English 101**

3 cr. Undergraduate.

Prepares and qualifies multilingual writers for ENGLISH 102 through critical reading, writing, and revision, with an emphasis on rhetorical analysis, synthesis, and academic writing conventions. Reflective inquiry used to produce a portfolio of revised writing.

**Prerequisites:** Level 3 earned via TOEFL, IELTS or other tests approved by EAP; or level 2 earned via ACT, SAT or Guided English Placement (GEP); or grade of C or better in EAP 100 (P) or ENGLISH 100 (P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAP 110 College Reading and Writing Skills for Multilingual Students**

4 cr. Undergraduate.

Opportunities for multilingual students to develop academic vocabulary, reading comprehension and critical reading skills along with basic composition skills, including direct language instruction.

**Prerequisites:** Level 1 earned via TOEFL, IELTS or other tests approved by EAP or self-placement.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EAP 120 Grammar and Editing in English for Multilingual Students**

3 cr. Undergraduate.

Grammar instruction and practice for non-native speakers of English.

**Prerequisites:** none.**Course Rules:** Open only to undergraduates who are non-native speakers of English.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EAP 135 Basic Skills in Academic Listening & Speaking**

3 cr. Undergraduate.

Academic presentation, listening, and lecture note-taking skill development for English learners with no previous formal instruction in these areas.

**Prerequisites:** none.**Course Rules:** Open only to undergraduate students who are non-native speakers of English.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EAP 145 Practice in Academic Listening and Speaking**

3 cr. Undergraduate.

Academic presentation, listening, and lecture note-taking skill development for English learners with previous formal instruction in these areas.

**Prerequisites:** a grade of C or better in EAP 135(P) or consent of department.**Course Rules:** Open only to undergraduate students who are non-native speakers of English.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EAP 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EAP 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EAP 420 Advanced Reading, Writing, and Grammar Tune-up for Internationals**

4 cr. Undergraduate.

Refinement of advanced undergraduate and graduate students' academic writing, reading and grammar with a focus on U.S. academic expectations. Discussion of readings. Intensive individual conferences target unique needs.

**Prerequisites:** junior standing.**Course Rules:** May enroll in one fall and one spring term to a combined total of 8 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EAP 435 Advanced Listening, Speaking, and Notetaking Skills for Internationals**

4 cr. Undergraduate.

Refinement of advanced undergraduate and graduate students' listening and speaking skills and pronunciation. Focus on U.S. academic expectations. Intensive individual conferences target unique needs.

**Prerequisites:** junior standing.**Course Rules:** May enroll in one fall and one spring term to a combined total of 8 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EAP 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Ethnic Studies, Comparative (ETHNIC)

**ETHNIC 101 The Multi-Racial Origins of American Cultures**

3 cr. Undergraduate.

Origins and development of racial and ethnic identities in the Americas, with specific attention to Wisconsin history and contemporary issues.

**Prerequisites:** none.**Course Rules:** 2 hrs lec, 1 section. Not retakable for cr; may be repeated for higher grade.**General Education Requirements:** CD, HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 102 Transnational Migrations: People on the Move**

3 cr. Undergraduate.

Modern and contemporary social and cultural processes of migration and identity; role of law as 'gatekeeping'; history of nativism, interethnic relations, and community formation. Experiences of migrants, refugees &amp; asylum-seekers.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 192 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 193 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** SS**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 199 Independent Study: Lower Division**

1-3 cr. Undergraduate.

For further information, consult Ethnic Studies coordinator.

**Prerequisites:** 2.25 gpa on at least 12 graded cr; writ cons instr & prog coord.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2016, Summer 2009, Spring 2007, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 200 Racial Minorities in the United States**

3 cr. Undergraduate.

A survey of the historical and the contemporary experiences of American Indians, Asians, African-Americans, and Hispanics in the United States.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 245 Indians, Artists, and Conquistadores: The U.S. Southwest**

3 cr. Undergraduate.

Interaction of diverse Indian, European, and Latino cultures in the U.S. southwest.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 250 Selected Topics in Ethnic Studies:**

3 cr. Undergraduate.

This course will focus on one individual ethnic group, or one particular aspect of an ethnic group.

**Prerequisites:** none.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2015, Spring 2014, Fall 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 255 Migration and Gender: Starbucks, Sex Trafficking, and Nannies**

3 cr. Undergraduate.

Changing roles of women in the global marketplace; effects of migration on gender and family life.

**Prerequisites:** none.**Course Rules:** Counts as a repeat of Ethnic 250 with similar title.**General Education Requirements:** CD, HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 265 Hmong Americans: History, Culture, and Contemporary Life**

3 cr. Undergraduate.

Hmong American history, the effects of the Vietnam War on Hmong culture, and the history of the resulting refugee immigrants in America.

**Prerequisites:** none.**Course Rules:** Ethnic 265 & Hmong 265 are jointly offered; they count as repeats of one another.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 275 Queer Migrations**

3 cr. Undergraduate.

How gender, race, and sexuality shape the migration processes; how concerns about sexuality shape U.S. immigration and citizenship policy; how mass migrations transform diverse queer communities.

**Prerequisites:** none.**Course Rules:** No cr for students w/cr in Ethnic 250 w/similar topic.

Ethnic 275 & LGBT 275 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 285 Cultures of Contemporary Russia**

3 cr. Undergraduate.

Ethnic conflict and struggles over language, territory, culture, and politics after the dissolution of the Soviet Union.

**Prerequisites:** none.**Course Rules:** Counts as a repeat of Ethnic 250 w/similar title.**Last Taught:** Spring 2012, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 289 Internship in Ethnic Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of ethnic studies in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in ethnic; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ETHNIC 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Last Taught:** UWinterIM 2013, UWinterIM 2011, Summer 2005, UWinterIM 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Summer 1997, Summer 1990, Spring 1986.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 325 Gender, Race, and Ethnicity in Milwaukee:**

3 cr. Undergraduate.

Influxes into the U.S. of migrants from Europe, Latin America, and elsewhere; evolution of conflict and division; particular attention to Civil Rights and deindustrialization.

**Prerequisites:** jr st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**General Education Requirements:** CD, HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 350 Advanced Topics in Comparative Ethnic Studies:**

3 cr. Undergraduate.

Various advanced topics in the field of comparative ethnic studies.

**Prerequisites:** Ethnic 101(P); 102(P), or 250(P), or cons instr.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2011, Fall 2010, Spring 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 355 Muslims and American Popular Culture**

3 cr. Undergraduate.

History of Muslims in American pop culture; sub-cultures of various Muslim ethnic groups from the perspective of film, literature, and music.

**Prerequisites:** jr st or Ethnic 101(P) or 102(P).

**Last Taught:** Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 360 Villainy, Sex, & Blood: Race, Gender & Ethnicity in Pop Culture**

3 cr. Undergraduate.

Exploration of the ways in which popular culture creates, maintains, and challenges notions of race, gender, and ethnicity throughout the American historical experience.

**Prerequisites:** jr st.

**Course Rules:** Counts as a repeat of Ethnic 250 w/ similar topic.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 375 Global Violence, Disease, and Death**

3 cr. Undergraduate.

Development schemas, health policies, and the role of international organizations in global incidents of suffering, violence, and death.

**Prerequisites:** jr st or Ethnic 101(P) or 102(P).

**Last Taught:** Fall 2023, Spring 2019, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 489 Internship in Ethnic Studies, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of ethnic studies in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in ethnic stds; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.

**Last Taught:** Spring 2021, Fall 2020, Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** UWinteriM 2014, UWinteriM 2013, UWinteriM 2011, Summer 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 550 Senior Seminar in Comparative Ethnic Studies:**

3 cr. Undergraduate.

Focus on specific aspects (social, cultural) of ethnic and racial identity, based on readings and presentation of original student research.

**Prerequisites:** sr st; cons instr.

**Course Rules:** Topic varies; not retakable for cr. May be repeated for higher grade. Satisfies L&S Seminar req.

**Last Taught:** Spring 2021, Spring 2008, Spring 2006, Summer 1997.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ETHNIC 699 Advanced Independent Work**

1-3 cr. Undergraduate.

See Independent Study. For further information consult Ethnic Studies coord.

**Prerequisites:** jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2012, Summer 2011, Spring 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Exceptional Education (EXCEDUC)

**EXCEDUC 200 Fieldwork in Exceptional Education:**

1-4 cr. Undergraduate.

Field experience designed to allow pre-education students to participate and observe in exceptional education setting.

**Prerequisites:** none.

**Course Rules:** Cr/no cr only. Fieldwork may not be dropped after the second week of classes. May be retaken w/chg in topic to max of 6 cr.

**Last Taught:** Spring 2004, Fall 2003, Spring 2003, Fall 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** cons instr; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2017, Summer 2012, Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 299 Independent Reading**

1-3 cr. Undergraduate.

**Prerequisites:** cons instr.

**Course Rules:** May be retaken to max of 6 cr.

**Last Taught:** UWinterIM 2005, Spring 2002, Fall 2000, Summer 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 300 The Exceptional Individual**

3 cr. Undergraduate.

An introduction to etiology, historic background, current service provisions, and issues and trends related to individuals with learning, sensory, behavioral, or physical handicapping conditions.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 301 American Sign Language I**

3 cr. Undergraduate.

This course will introduce basic American Sign Language structure and study of deaf culture. Basic fingerspelling principles are also introduced.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 302 American Sign Language II**

3 cr. Undergraduate.

This course will continue skills in American Sign Language, fingerspelling and the study of deaf culture.

**Prerequisites:** C or better in EXCEDUC 301(P) or Level 1 ASLPI score.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 303 American Sign Language III**

3 cr. Undergraduate.

Focus is on the development of intermediate level skills in American Sign Language, its structure and study of deaf culture.

**Prerequisites:** C or better in EXCEDUC 302(P) or Level 1+ ASLPI score

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 304 American Sign Language IV**

3 cr. Undergraduate.

Focus on the continuing development of intermediate level skills in American Sign Language, its structure and the study of deaf culture.

**Prerequisites:** C or better in EXCEDUC 303(P) or Level 2 ASLPI score.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 305 American Sign Language V**

3 cr. Undergraduate.

Advanced American Sign Language focusing on classifiers, fingerspelling, numeric techniques and grammar.

**Prerequisites:** C or better in EXCEDUC 304 (P) or Level 2+ ASLPI score.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 306 American Sign Language VI**

3 cr. Undergraduate.

Advanced American Sign Language focusing on register, colloquialisms, storytelling and poetry.

**Prerequisites:** C or better in EXCEDUC 305(P).

**Last Taught:** Summer 2023, Summer 2022, Spring 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 320 Introduction to Interpreting: English to American Sign Language**

3 cr. Undergraduate.

Theoretical and practical examination and development of various techniques of interpreting from English into American Sign Language through discourse analysis.

**Prerequisites:** grade of B- or better in EXCEDUC 303(P).

**Last Taught:** Summer 2023, Summer 2021, Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 321 Introduction to Interpreting: American Sign Language to English**

3 cr. Undergraduate.

Theoretical and practical examination and development of various techniques of interpreting from American Sign Language to English through discourse analysis.

**Prerequisites:** grade of B- or better in EXCEDUC 303(P).

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 324 ASL IV Lab**

1 cr. Undergraduate.

Specific language immersion for ASL IV; additional language development exercises with support of language coach.

**Prerequisites:** EXCEDUC 304(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 325 ASL V Lab**

1 cr. Undergraduate.

Specific language immersion for ASL V; additional language development exercises with support of language coach.

**Prerequisites:** EXCEDUC 305(C).

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 326 ASL VI Lab**

1 cr. Undergraduate.

Specific language immersion for ASL VI; additional language development exercises with support of language coach.

**Prerequisites:** EXCEDUC 306(C).

**Last Taught:** Summer 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**EXCEDUC 327 Classifiers Lab**

1 cr. Undergraduate.

Specific language immersion for Classifiers; additional language development exercises with support of language coach.

**Prerequisites:** EXCEDUC 510(C).

**Last Taught:** Fall 2023, Fall 2022, Summer 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 328 Skills Development: ASL Depiction**

1 cr. Undergraduate.

Skill development in ASL depiction by providing an immersion experience to build fluency and confidence using Visual-Gestural Communication.

**Prerequisites:** grade of C or better in EXCEDUC 302(P) or Level 2 ASLPI score.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 330 Deaf History**

3 cr. Undergraduate.

History of the Deaf Community in America primarily as well as in other countries.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 335 Educational Interpreting I**

3 cr. Undergraduate.

Explores issues related to interpreting for children in settings from pre-kindergarten through elementary. Analysis of impact of transitions on professional roles, responsibilities, and ethics.

**Prerequisites:** admis. to ITP program.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 336 Postsecondary Interpreting I**

3 cr. Undergraduate.

Introductory knowledge/skills-based course that examines interpreting in a postsecondary environment, including both the technical college and university level.

**Prerequisites:** admis. to ITP program.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 337 Video Relay Services Interpreting I**

3 cr. Undergraduate.

Introductory knowledge/skills-based course that examines interpreting via distance technology, including video relay and video remote interpreting.

**Prerequisites:** admis. to ITP program.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 338 Introduction to Healthcare Interpreting**

3 cr. Undergraduate.

Introduction to the unique challenges of and skills for sign language interpreting in medical settings.

**Prerequisites:** admis. to ITP.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 345 Foundations of English to ASL Interpreting**

3 cr. Undergraduate.

Techniques for changing an auditory English message into American Sign Language and vice versa.

**Prerequisites:** jr st & admis to ITP or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 346 Skill Development: Semantics**

3 cr. Undergraduate.

Analysis of American Sign Language linguistics semantics. Focus of individual sign meanings, semantic grammar structure including colloquialisms and cultural influences on meanings of signs.

**Prerequisites:** sophomore standing; for ASL Studies program students: grade of C or better in EXCEDUC 304(P), or Level 2+ ASLPI score; for Interpreter Training Program students: EXCEDUC 303(P), EXCEDUC 320(P), and EXCEDUC 321(P), or Level 2+ ASLPI score; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 347 Foundations of ASL to English Interpreting**

3 cr. Undergraduate.

Development of English skills for the purposes of providing appropriate interpretations.

**Prerequisites:** admis to ITP or cons instr.

**Course Rules:** Not open to students with cr in EXCEDUC 326(426).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 348 Introduction to the Profession of Interpreting**

3 cr. Undergraduate.

Introduction to the professions and practices of interpreting. Focus on its history, philosophies, ethics, roles, resources and credentialing within the profession.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 349 Field Work: Interacting in the Deaf Community I**

3 cr. Undergraduate.

Experiences of observation, actual interpreting, sign teaching and interaction with deaf community. Weekly seminar provides forum for feedback and processing experiences.

**Prerequisites:** junior standing and admis to ITP; or consent of instructor.

**Course Rules:** Not open for cr to students with cr in EXCEDUC 322.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 350 Interpreting: Spoken English to ASL II**

3 cr. Undergraduate.

Practical application of the process of taking a spoken English message and converting it into American Sign Language. Emphasis on the consecutive mode.

**Prerequisites:** jr st & admis to ITP, or cons instr.

**Course Rules:** Not open for cr to students with cr in EXCEDUC 315.

**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 351 Interpreting ASL to Spoken English II**

3 cr. Undergraduate.

Continues to develop the skill of changing a message signed in ASL into spoken English. Consecutive mode practiced; individual appointments emphasized.

**Prerequisites:** admis to ITP, EXCEDUC 345(P).

**Course Rules:** Not open for cr to students with cr in EXCEDUC 316.

**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 352 American Deaf Culture**

3 cr. Undergraduate.

The impact of Deaf culture on the Deaf community and Deaf education, understanding the Deaf person in a cultural context.

**Prerequisites:** none.

**Course Rules:** Not open for cr to students with cr in EXCEDUC 340(650).

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 353 Introduction to Culturally Diverse Community Resources**

3 cr. Undergraduate/Graduate.

Overview of community resources serving consumers with hearing impairments. Professionals and consumers from agencies and organizations will address needs as they relate to interpreting.

**Prerequisites:** jr st & admis to ITP, or grad st, or cons instr.

**Course Rules:** Not open for cr to students with cr in EXCEDUC 342(421).

**Last Taught:** Spring 2010, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 353G Introduction to Culturally Diverse Community Resources**

3 cr. Undergraduate/Graduate.

Overview of community resources serving consumers with hearing impairments. Professionals and consumers from agencies and organizations will address needs as they relate to interpreting.

**Prerequisites:** jr st & admis to ITP, or grad st, or cons instr.

**Course Rules:** Not open for cr to students with cr in EXCEDUC 342(421).

**Last Taught:** Spring 2010, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 354 Field Work: Interacting in the Deaf Community II**

3 cr. Undergraduate.

Continuation of EXCEDUC 349. Requires time observing, interpreting, teaching and community interaction. Weekly seminars continue to provide forum for processing of experiences.

**Prerequisites:** junior standing, admis to ITP, and EXCEDUC 349(P).

**Course Rules:** Not open for cr to students with cr in EXCEDUC 323.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 355 Interpreting: ASL to Spoken English III**

3 cr. Undergraduate.

Developing intermediate to advanced skills in simultaneously converting American Sign Language to spoken English.

**Prerequisites:** EXCEDUC 345(P) & EXCEDUC 350(P); & admis to ITP.

**Course Rules:** Not open for cr to students with cr in EXCEDUC 318 or EXCEDUC 319.

**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 356 Transliteration II**

3 cr. Undergraduate.

Skills and theory necessary to change a spoken English message into the form of a signed English message and vice-versa.

**Prerequisites:** admis to ITP, or cons instr.

**Course Rules:** Not open for cr to students with cr in EXCEDUC 327 or EXCEDUC 328.

**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 357 Issues and Trends for Educational Interpreters**

3 cr. Undergraduate.

Historical and current issues affecting the education of students who are deaf and hard-of-hearing and their influence on the field of educational interpreting.

**Prerequisites:** admis to ITP.

**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 358 ASL/English Linguistics I**

3 cr. Undergraduate.

The linguistics of American Sign Language, exploring its structure and grammar, emphasizing its phonology and its comparison to English.

**Prerequisites:** a grade of C or better in EXCEDUC 306(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 359 Fieldwork: Interacting in the Deaf Community III**

3 cr. Undergraduate.

Continuation of EXCEDUC 323: requires greater emphasis on interpreting, less on observation, teaching and community interaction. Weekly seminar continues for processing of experiences.

**Prerequisites:** EXCEDUC 354(P) or EXCEDUC 349(P); & admis to ITP.

**Course Rules:** Not open for cr to students with cr in EXCEDUC 324.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 360 Transliteration/Oral I**

3 cr. Undergraduate.

Introduction of the mechanics and skills needed for Transliteration and Oral Interpreting.

**Prerequisites:** admis to ITP, EXCEDUC 350(P) & EXCEDUC 355(P); or cons instr.

**Course Rules:** Not open to students with cr in EXCEDUC 320.

**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 361 Interpreting: Spoken English to ASL III**

3 cr. Undergraduate.

Developing intermediate to advanced skills in simultaneously converting spoken English into American Sign Language. Students will work with a variety of stimulus materials.

**Prerequisites:** admis to ITP, EXCEDUC 351(P) & EXCEDUC 355(P), or cons instr.

**Course Rules:** Not open for cr to students who have cr in EXCEDUC 321.

**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 362 Specialized Interpreting Across Diverse Settings**

3 cr. Undergraduate.

Guidelines for interpreting, transliterating, and voicing in a variety of settings, including vocational, legal, health related and performing arts.

**Prerequisites:** admis to ITP.**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 363 ASL/English Linguistics II**

3 cr. Undergraduate.

Focus on the linguistics of American Sign Language, including emphasis on its morphology and syntax and its comparison to English.

**Prerequisites:** junior standing and a grade of C or better in EXCEDUC 358(P); or consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 364 Fieldwork: Interacting in the Deaf Community IV**

6-12 cr. Undergraduate.

Continuation of EXCEDUC 359: requiring 70% focus on actual interpreting, the remainder on observation, teaching and community interaction.

Seminar offers forum for processing experiences.

**Prerequisites:** EXCEDUC 354(P) & EXCEDUC 359(P) & admis to ITP.**Course Rules:** May be retaken to 12 cr max. Not open for cr to students with cr in EXCEDUC 325.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 365 Educational Interpreting II**

3 cr. Undergraduate.

Issues related to interpreting for children from 6th through 12th grade. Use of various sign systems in educational settings, working conditions and attitudes, and DPI certification issues.

**Prerequisites:** admis. to ITP.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 366 Postsecondary Interpreting II**

3 cr. Undergraduate.

Advanced knowledge/skills-based course that examines interpreting in a postsecondary environment, including technical college and university level.

**Prerequisites:** admis. to ITP.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 367 Video Relay Services Interpreting II**

3 cr. Undergraduate.

Continuation of the VRS Foundations I course and will continue to be a knowledge/skills-based course that examines interpreting via distance technology, including video relay and video remote interpreting.

**Prerequisites:** admis. to ITP.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 368 Medical and Mental Healthcare Interpreting**

3 cr. Undergraduate.

Explores unique challenges of sign language interpreting in medical and mental health settings. Variety of settings and the systems and structures for patient care.

**Prerequisites:** admis. to ITP.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 371 Strategies for the National Interpreter Certification Exam**

1 cr. Undergraduate.

Techniques and strategies for the knowledge and ethical skills required for the RID-NIC Knowledge Exam.

**Prerequisites:** EXCEDUC 354(C) and admis to the Interpreter Training Program; or consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 372 Interpreter Training Program Capstone**

3 cr. Undergraduate.

Integrates coursework, knowledge, skills and experiential learning to enable the student to demonstrate a broad mastery of learning across the curriculum for a promise of employability and further career advancement.

**Prerequisites:** EXCEDUC 364(C).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 375 Using Technology for Teaching and Learning**

1 cr. Undergraduate.

Introduce students to various forms of technology used in the PK-12 classrooms.

**Prerequisites:** none.**Course Rules:** Jointly offered with and counts as repeat of CURRINS 375.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 376 Understanding and Developing the edTPA**

1 cr. Undergraduate.

In-depth overview of all components of the edTPA; practice of skills including video recording, uploading and compressing video, writing summaries.

**Prerequisites:** none.**Course Rules:** Credit/no credit only. Jointly offered with and counts as repeat of CURRINS 376.**Last Taught:** Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 377 Wisconsin Foundations of Reading**

1 cr. Undergraduate.

Foundational literacy assessment and instruction for diverse learners to prepare for the Wisconsin Foundations of Reading test. Focus on reading development grades PreK-8.

**Prerequisites:** none.**Course Rules:** Jointly offered with and counts as repeat of CURRINS 377. Credit/No Credit only.**Last Taught:** Spring 2021, Spring 2020, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 456 Seminar in Student Teaching**

1-3 cr. Undergraduate.

Discussion seminar designed to bring continuity to the professional semester. Material will relate directly to the concurrent practicum experience of the students.

**Prerequisites:** jr st & conc reg in student teaching.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 472 Student Teaching with Students Having Hearing Impairments**

1-12 cr. Undergraduate.

**Prerequisites:** sr st & cons dept; EXCEDUC 650(P).**Course Rules:** May be retaken to 15 cr max.**Last Taught:** Summer 2006, Fall 2005, Spring 2003, Spring 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 473 Student Teaching with Students Having Cognitive Disabilities**

1-12 cr. Undergraduate.

**Prerequisites:** sr st & cons dept; EXCEDUC 640(P).**Course Rules:** May be retaken to 15 cr max.**Last Taught:** Fall 2005, Spring 2002, Fall 2000, Fall 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 475 Student Teaching with Students Having Emotional Disturbance**

1-12 cr. Undergraduate.

**Prerequisites:** sr st & cons dept; EXCEDUC 620(P).**Course Rules:** May be retaken to 15 cr max.**Last Taught:** Fall 2005, Spring 2003, Spring 2002, Fall 2001.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 478 Student Teaching with Students Having Learning Disabilities**

1-12 cr. Undergraduate.

**Prerequisites:** sr st & cons dept; EXCEDUC 610(P).**Course Rules:** May be retaken to 15 cr max.**Last Taught:** Fall 2004, Spring 2002, Spring 2001, Fall 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 481 Student Teaching with Students Having Early Childhood Exceptional Ed Needs**

1-12 cr. Undergraduate.

**Prerequisites:** sr st & cons dept; EXCEDUC 630(P).**Course Rules:** May be retaken to 18 cr max.**Last Taught:** Spring 2023, Fall 2022, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 486 Linking Seminar: Developing Reflective Practice**

1-3 cr. Undergraduate.

Links formal course work and teaching experience. Focus on teaching in urban schools, accommodating diverse learners developing reflective practice and/or creating a professional development portfolio.

**Prerequisites:** admis to School of Educ.**Course Rules:** Cr/no cr only; May not be retaken for cr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 487 Linking Seminar II: Primary/Middle-Behavioral Support, Planning, Assessment**

1 cr. Undergraduate.

Links formal course work and teaching experience. Focus on becoming a reflective practitioner and development as a special education teacher.

**Prerequisites:** Cr/no cr only; prereq: jr st; admis Post-Bac Cert prog or cons instr.**Last Taught:** Summer 2011, Summer 2010, Spring 2010, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 488 Linking Seminar: Professional Development**

1 cr. Undergraduate/Graduate.

Links formal coursework and teaching experience. Focus on teacher as advocate and change agent and professional development.

**Prerequisites:** jr st; admis to School of Educ.**Course Rules:** Cr/no cr only;**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 488G Linking Seminar: Professional Development**

1 cr. Undergraduate/Graduate.

Links formal coursework and teaching experience. Focus on teacher as advocate and change agent and professional development.

**Prerequisites:** jr st; admis to School of Educ.**Course Rules:** Cr/no cr only;**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 489 Linking Seminar II: Middle/High-Behavioral Support, Planning & Assessment**

1 cr. Undergraduate.

Links formal coursework and teaching experience. Focus on organizing for instruction and emotional/behavioral support at the middle and high school level.

**Prerequisites:** EXCEDUC 635(C) & EXCEDUC 587(C); admis to ExcEduc prog; or cons instr.**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 496 Linking Seminar III: Middle/High - Professional Development**

1 cr. Undergraduate.

Links formal course work and teaching experience. Focus on supporting students with behavioral challenges, planning for and managing day-to-day teaching responsibilities, transition planning.

**Prerequisites:** admis to School of Educ.**Course Rules:** Cr/no cr only;**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** jr st, cons instr, acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2022, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** jr st, cons instr, acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2022, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 500 Fingerspelling & Numbers**

3 cr. Undergraduate.

Introduction to fingerspelling and numbers in ASL.

**Prerequisites:** sophomore standing and a grade of C or better in EXCEDUC 302(P) or Level 2+ ASLPI score; or consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 503 Job Development and On the Job Support for Students with Disabilities**

3 cr. Undergraduate.

Overview of the career development process and a person-centered framework for job development and job support.

**Prerequisites:** EXCEDUC 679(P)**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 505 Transition Assessment for Individuals with Disabilities**

3 cr. Undergraduate.

Transition assessments related to training, education, employment, and living skills for students with disabilities.

**Prerequisites:** EXCEDUC 679(P) or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 507 Linking Academics and Self-Determination to Transition Planning**

3 cr. Undergraduate.

Youth development and the importance of preparing youth to take the lead in their education, career development, and community participation.

**Prerequisites:** EXCEDUC 679(P) or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 510 Classifiers**

3 cr. Undergraduate.

Study of the classifier system of ASL.

**Prerequisites:** sophomore standing; for ASL Studies program students:

a grade of C or better in EXCEDUC 305(P) or EXCEDUC 306(P);

for Interpreter Training Program students: EXCEDUC 304(P),

EXCEDUC 320(P) and EXCEDUC 321 (P); or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Summer 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 520 ASL Literature**

3 cr. Undergraduate.

Introduction to the analysis of ASL Literature.

**Prerequisites:** sophomore standing and a grade of C or better in

EXCEDUC 305(P); or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 531 Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language**

3 cr. Undergraduate/Graduate.

Understanding the needs of secondary level students with handicaps, emphasizing methods of assessment and programming in mainstreamed settings.

**Prerequisites:** jr st & admis to School of Educ; or grad st.**Course Rules:** Counts as repeat of EXCEDUC 530 and EXCEDUC 605.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 531G Inclusion for Secondary Educators: Humanities, the Arts, Foreign Language**

3 cr. Undergraduate/Graduate.

Understanding the needs of secondary level students with handicaps, emphasizing methods of assessment and programming in mainstreamed settings.

**Prerequisites:** jr st & admis to School of Educ; or grad st.**Course Rules:** Counts as repeat of EXCEDUC 530 and EXCEDUC 605.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 532 Assessment and Monitoring**

3 cr. Undergraduate/Graduate.

Roles and responsibilities in district-wide and alternative assessment, developing monitoring systems, report writing, equitable and just assessment practices.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 532G Assessment and Monitoring**

3 cr. Undergraduate/Graduate.

Roles and responsibilities in district-wide and alternative assessment, developing monitoring systems, report writing, equitable and just assessment practices.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 533 Assessment/Monitoring : Deaf & Hard of Hearing**

1 cr. Undergraduate/Graduate.

Roles and Responsibilities in District-Wide and Alternative Assessment, Developing Monitoring Ssystems, Report Writing Promotive, Equitable and Just Assessment Practices.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr.**Last Taught:** Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 533G Assessment/Monitoring : Deaf & Hard of Hearing**

1 cr. Undergraduate/Graduate.

Roles and Responsibilities in District-Wide and Alternative Assessment, Developing Monitoring Ssystems, Report Writing Promotive, Equitable and Just Assessment Practices.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr.**Last Taught:** Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 536 Inclusion for Secondary Science and Math Educators**

1 cr. Undergraduate/Graduate.

History and legislation related to Special Education, characteristics of various disabilities, overview of universal design for learning (UDL), and accommodations and modifications of curriculum and instruction to meet the needs of all learners.

**Prerequisites:** jr st; admis to teacher cert prog.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 536G Inclusion for Secondary Science and Math Educators**

1 cr. Undergraduate/Graduate.

History and legislation related to Special Education, characteristics of various disabilities, overview of universal design for learning (UDL), and accommodations and modifications of curriculum and instruction to meet the needs of all learners.

**Prerequisites:** jr st; admis to teacher cert prog.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 537 Math and Science Methods for All Learners**

1 cr. Undergraduate/Graduate.

Lesson and unit planning that incorporates curriculum and instructional strategies designed to include students with identified disabilities, in collaboration with special educators.

**Prerequisites:** jr st; admis to teacher cert prog.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 537G Math and Science Methods for All Learners**

1 cr. Undergraduate/Graduate.

Lesson and unit planning that incorporates curriculum and instructional strategies designed to include students with identified disabilities, in collaboration with special educators.

**Prerequisites:** jr st; admis to teacher cert prog.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 538 Teaching Math and Science to All Learners**

1 cr. Undergraduate/Graduate.

Practicum working with students with disabilities in general education settings focused on the planning and delivery of lessons in inclusive classrooms, in collaboration with special educators.

**Prerequisites:** jr st; admis to teacher cert prog.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 538G Teaching Math and Science to All Learners**

1 cr. Undergraduate/Graduate.

Practicum working with students with disabilities in general education settings focused on the planning and delivery of lessons in inclusive classrooms, in collaboration with special educators.

**Prerequisites:** jr st; admis to teacher cert prog.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 547 Comparative Special Education**

3 cr. Undergraduate/Graduate.

Special education legislation, instruction, and policies in a variety of social and cultural contexts.

**Prerequisites:** jr st., completion of OWC-Part A

**General Education Requirements:** OWCB

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 547G Comparative Special Education**

3 cr. Undergraduate/Graduate.

Special education legislation, instruction, and policies in a variety of social and cultural contexts.

**Prerequisites:** jr st., completion of OWC-Part A

**General Education Requirements:** OWCB

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 548 Introduction to Disability Studies**

3 cr. Undergraduate/Graduate.

Focuses on understanding disability from a variety of perspectives: historical, political, social, cultural, literary, personal, and artistic. Disability is viewed in a manner closer to ethnic, gender, and sexuality studies.

**Prerequisites:** jr st, OWC Part A; or grad st.

**General Education Requirements:** OWCB

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 548G Introduction to Disability Studies**

3 cr. Undergraduate/Graduate.

Focuses on understanding disability from a variety of perspectives: historical, political, social, cultural, literary, personal, and artistic. Disability is viewed in a manner closer to ethnic, gender, and sexuality studies.

**Prerequisites:** jr st, OWC Part A; or grad st.

**General Education Requirements:** OWCB

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 558 Communication in the Classroom I: Deaf/Hard of Hearing**

3 cr. Undergraduate/Graduate.

Developing proficiency and instructional skills in using manual communication for individuals who are deaf or hard of hearing in the educational context.

**Prerequisites:** must pass competency test in basic aspects of manual communication prior to registration; jr st; admis to Post-Bac Cert prog or cons instr.

**Last Taught:** Summer 2009, Summer 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 558G Communication in the Classroom I: Deaf/Hard of Hearing**

3 cr. Undergraduate/Graduate.

Developing proficiency and instructional skills in using manual communication for individuals who are deaf or hard of hearing in the educational context.

**Prerequisites:** must pass competency test in basic aspects of manual communication prior to registration; jr st; admis to Post-Bac Cert prog or cons instr.

**Last Taught:** Summer 2009, Summer 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 559 Communication in the Classroom II: Deaf/Hard of Hearing**

3 cr. Undergraduate/Graduate.

Linguistic analysis and curriculum planning for facilitating the development of communication in students who are deaf or hard of hearing.

**Prerequisites:** EXCEDUC 680(P) & EXCEDUC 681(P). Admis to Post-Bac Cert prog or cons instr.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 559G Communication in the Classroom II: Deaf/Hard of Hearing**

3 cr. Undergraduate/Graduate.

Linguistic analysis and curriculum planning for facilitating the development of communication in students who are deaf or hard of hearing.

**Prerequisites:** EXCEDUC 680(P) & EXCEDUC 681(P). Admis to Post-Bac Cert prog or cons instr.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 560 Foundations of Autism Spectrum Disorders**

3 cr. Undergraduate/Graduate.

Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives.

**Prerequisites:** jr st or cons instr; grade of C or better in ENGLISH 102(P) or score at level 4 on EPT.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 560G Foundations of Autism Spectrum Disorders**

3 cr. Undergraduate/Graduate.

Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives.

**Prerequisites:** jr st or cons instr; grade of C or better in ENGLISH 102(P) or score at level 4 on EPT.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 561 Methods for Working with Individuals with Autism Spectrum Disorders**

3 cr. Undergraduate.

Strategies for special education teachers and others for effectively working with individuals with autism spectrum disorders. Overview of instructional issues, inclusion, and curriculum development.

**Prerequisites:** a grade of C or better in EXCEDUC 560(P) or consent of instructor.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 562 Hearing Science**

3 cr. Undergraduate/Graduate.

Overview of physical and psycho-physical concepts of hearing science, speech mechanism, audiological evaluation and implications for the educational context.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr.

**Last Taught:** Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 562G Hearing Science**

3 cr. Undergraduate/Graduate.

Overview of physical and psycho-physical concepts of hearing science, speech mechanism, audiological evaluation and implications for the educational context.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr.

**Last Taught:** Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 563 Speechreading/Auditory Rehabilitation**

3 cr. Undergraduate/Graduate.

Techniques for teaching speech, speechreading, listening, and auditory training for children who are deaf or hard of hearing.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr; EXCEDUC 562(P); jr st.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 563G Speechreading/Auditory Rehabilitation**

3 cr. Undergraduate/Graduate.

Techniques for teaching speech, speechreading, listening, and auditory training for children who are deaf or hard of hearing.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr; EXCEDUC 562(P); jr st.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 564 Communication Methods Practicum**

3 cr. Undergraduate/Graduate.

Field experience with individuals with hearing impairments in schools.

Emphasis on spoken and sign language development. Includes scheduled class and demonstrations.

**Prerequisites:** jr st; admis to School of Educ or grad st; EXCEDUC 541, EXCEDUC 562 & EXCEDUC 563, or cons instr.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 564G Communication Methods Practicum**

3 cr. Undergraduate/Graduate.

Field experience with individuals with hearing impairments in schools.

Emphasis on spoken and sign language development. Includes scheduled class and demonstrations.

**Prerequisites:** jr st; admis to School of Educ or grad st; EXCEDUC 541, EXCEDUC 562 & EXCEDUC 563, or cons instr.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 565 Techniques of Teaching School Subjects to Individuals w/ Hearing Impairments II**

3 cr. Undergraduate/Graduate.

Methods of teaching social studies, science, and mathematics as related to the language needs of students with hearing impairments and academic deficiencies.

**Prerequisites:** jr st & admis to School of Educ, or grad st; EXCEDUC 560 & EXCEDUC 561 or cons instr.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 565G Techniques of Teaching School Subjects to Individuals w/Hearing Impairments II**

3 cr. Undergraduate/Graduate.

Methods of teaching social studies, science, and mathematics as related to the language needs of students with hearing impairments and academic deficiencies.

**Prerequisites:** jr st & admis to School of Educ, or grad st; EXCEDUC 560 & EXCEDUC 561 or cons instr.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 568 Curriculum and Methods for Special Education: Birth to Three**

3 cr. Undergraduate/Graduate.

Designed for teachers serving infants and toddlers with disabilities and their families.

**Prerequisites:** junior standing, admission to Exceptional Education program, and EXCEDUC 647(C).

**Course Rules:** Counts as a repeat of TCH LRN 568 or CURRINS 301.

**Last Taught:** Summer 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 568G Curriculum and Methods for Special Education: Birth to Three**

3 cr. Undergraduate/Graduate.

Designed for teachers serving infants and toddlers with disabilities and their families.

**Prerequisites:** junior standing, admission to Exceptional Education program, and EXCEDUC 647(C).**Course Rules:** Counts as a repeat of TCH LRN 568 or CURRINS 301.**Last Taught:** Summer 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 569 Curriculum and Methods for Special Education: Preschool**

3 cr. Undergraduate/Graduate.

Designed for teachers serving preschool children with disabilities and their families.

**Prerequisites:** junior standing, admission an Exceptional Education program, and EXCEDUC 648(C).**Course Rules:** Counts as a repeat of TCH LRN 569.**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 569G Curriculum and Methods for Special Education: Preschool**

3 cr. Undergraduate/Graduate.

Designed for teachers serving preschool children with disabilities and their families.

**Prerequisites:** junior standing, admission an Exceptional Education program, and EXCEDUC 648(C).**Course Rules:** Counts as a repeat of TCH LRN 569.**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 570 Curriculum and Methods for Special Education: Primary**

3 cr. Undergraduate/Graduate.

Designed for teachers serving primary children with disabilities and their families.

**Prerequisites:** junior standing; admission to an Exceptional Education program, and EXCEDUC 649(C).**Course Rules:** Counts as a repeat of TCH LRN 570.**Last Taught:** Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 570G Curriculum and Methods for Special Education: Primary**

3 cr. Undergraduate/Graduate.

Designed for teachers serving primary children with disabilities and their families.

**Prerequisites:** junior standing; admission to an Exceptional Education program, and EXCEDUC 649(C).**Course Rules:** Counts as a repeat of TCH LRN 570.**Last Taught:** Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 571 Curriculum Accommodations I: Primary/Middle**

1-3 cr. Undergraduate/Graduate.

Determine individualized goals within a broad curriculum framework and develop strategies for making accommodations in teaching methods, materials and class set-up.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr; jr st; EXCEDUC 587(C).**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 571G Curriculum Accommodations I: Primary/Middle**

1-3 cr. Undergraduate/Graduate.

Determine individualized goals within a broad curriculum framework and develop strategies for making accommodations in teaching methods, materials and class set-up.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr; jr st; EXCEDUC 587(C).**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 574 Curriculum Accommodations II: Primary/Middle**

3 cr. Undergraduate/Graduate.

In-depth experience in IEP planning and scheduling to accommodate students with highly individualized needs within the academic curriculum.

**Prerequisites:** EXCEDUC 571(P), 588(C). Admis to post-bac cert prog or cons instr.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 574G Curriculum Accommodations II: Primary/Middle**

3 cr. Undergraduate/Graduate.

In-depth experience in IEP planning and scheduling to accommodate students with highly individualized needs within the academic curriculum.

**Prerequisites:** EXCEDUC 571(P), 588(C). Admis to post-bac cert prog or cons instr.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 575 Field Experience in Autism Spectrum Disorders**

3 cr. Undergraduate.

Experience in supporting students with autism in an urban classroom setting. Online discussion and assignments focus on analyzing observations for evidence-based methods and strategies that support autism neurology.

**Prerequisites:** EXCEDUC 560(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 576 Curriculum Accommodations III: Functional for Middle to High Students**

3 cr. Undergraduate/Graduate.

Planning and scheduling for students with highly individualized goals, including school-to-work, while striving to integrate these goals into a well-coordinated program.

**Prerequisites:** admis to Post-Bac cert prog or cons instr.**Last Taught:** Fall 2005, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 576G Curriculum Accommodations III: Functional for Middle to High Students**

3 cr. Undergraduate/Graduate.

Planning and scheduling for students with highly individualized goals, including school-to-work, while striving to integrate these goals into a well-coordinated program.

**Prerequisites:** admis to Post-Bac cert prog or cons instr.**Last Taught:** Fall 2005, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**EXCEDUC 579 Current Topics in Exceptional Education:**

1-3 cr. Undergraduate/Graduate.

Specific topic announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Summer 2015, Summer 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 579G Current Topics in Exceptional Education:**

1-3 cr. Undergraduate/Graduate.

Specific topic announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Summer 2015, Summer 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 580 An Overview of Child/Youth Care**

3 cr. Undergraduate/Graduate.

Survey of skills, theories and approaches of the youth work field.

Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.

**Prerequisites:** jr st or cons instr.

**Course Rules:** ED POL 580/EXCEDUC 580/SOC WRK 580 are jointly offered & count as repeats of each other.

**Last Taught:** Fall 2014, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 580G An Overview of Child/Youth Care**

3 cr. Undergraduate/Graduate.

Survey of skills, theories and approaches of the youth work field.

Emphasis on interactive, developmental and relationship-building approaches in a variety of settings.

**Prerequisites:** jr st or cons instr.

**Course Rules:** ED POL 580/EXCEDUC 580/SOC WRK 580 are jointly offered & count as repeats of each other.

**Last Taught:** Fall 2014, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 585 Supervised Practicum in Child and Youth Care**

2-4 cr. Undergraduate/Graduate.

Supervised practicum in residential agencies and settings which utilize child and youth care workers and serve behaviorally, cognitively and/or physically disabled youth.

**Prerequisites:** jr st; ED POL 580/EXCEDUC 580/SOC WRK 580(P), or grad st; cons instr.

**Course Rules:** ED POL 585/EXCEDUC 585 are jointly offered & count as repeats of each other.

**Last Taught:** Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 586 Teaching Experience I**

1-12 cr. Undergraduate/Graduate.

Placement with a regular education teacher. Focus on understanding regular curriculum framework and experience teaching small groups.

**Prerequisites:** jr st; admis to Post-Bac Cert prog.

**Course Rules:** Cr/no cr only; may be retaken to 15 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 586G Teaching Experience I**

1-12 cr. Undergraduate/Graduate.

Placement with a regular education teacher. Focus on understanding regular curriculum framework and experience teaching small groups.

**Prerequisites:** jr st; admis to Post-Bac Cert prog.

**Course Rules:** Cr/no cr only; may be retaken to 15 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 587 Teaching Experience II**

1-12 cr. Undergraduate/Graduate.

Placement with exceptional education teacher. Focus on small group instruction, understanding teaching responsibilities and collaboration. On-the-job option available through application.

**Prerequisites:** jr st; admis to cert prog in ExcEduc; or cons instr.

**Course Rules:** May be retaken to 15 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 587G Teaching Experience II**

1-12 cr. Undergraduate/Graduate.

Placement with exceptional education teacher. Focus on small group instruction, understanding teaching responsibilities and collaboration. On-the-job option available through application.

**Prerequisites:** jr st; admis to cert prog in ExcEduc; or cons instr.

**Course Rules:** May be retaken to 15 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 588 Teaching Experience III**

1-12 cr. Undergraduate/Graduate.

Placement with exceptional education teacher. Full teaching responsibility is assumed. On-the-job option available through special application.

**Prerequisites:** jr st; admis to cert prog in ExcEduc; or cons instr.

**Course Rules:** May be retaken to 15 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 588G Teaching Experience III**

1-12 cr. Undergraduate/Graduate.

Placement with exceptional education teacher. Full teaching responsibility is assumed. On-the-job option available through special application.

**Prerequisites:** jr st; admis to cert prog in ExcEduc; or cons instr.

**Course Rules:** May be retaken to 15 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 589 Workshop in Exceptional Education:**

1-6 cr. Undergraduate/Graduate.

Variable content format examines assessment and/or methodological strategies appropriate for educators working with broad range of handicapped children and adolescents.

**Prerequisites:** jr st; cons instr or workshop dir.

**Course Rules:** May be retaken w/chg in topic to max of 6 cr.

**Last Taught:** Summer 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 589G Workshop in Exceptional Education:**

1-6 cr. Undergraduate/Graduate.

Variable content format examines assessment and/or methodological strategies appropriate for educators working with broad range of handicapped children and adolescents.

**Prerequisites:** jr st; cons instr or workshop dir.

**Course Rules:** May be retaken w/chg in topic to max of 6 cr.

**Last Taught:** Summer 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 595 Technology Applications for Diverse Learners**

3 cr. Undergraduate/Graduate.

Explores the use of technology to enhance the academic performance of diverse students in inclusive classrooms.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 595G Technology Applications for Diverse Learners**

3 cr. Undergraduate/Graduate.

Explores the use of technology to enhance the academic performance of diverse students in inclusive classrooms.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 600 Survey of Exceptional Education**

3 cr. Undergraduate/Graduate.

History, theories, research, and practices related to individuals with learning, sensory, behavioral or physical handicapping conditions.

**Prerequisites:** sr st & admis to School of Educ; or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 600G Survey of Exceptional Education**

3 cr. Undergraduate/Graduate.

History, theories, research, and practices related to individuals with learning, sensory, behavioral or physical handicapping conditions.

**Prerequisites:** sr st & admis to School of Educ; or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 601 Behavioral Supports**

3 cr. Undergraduate/Graduate.

Addresses needs of students with challenging behaviors. Emphasis on working collaboratively to conduct functional behavioral analysis.

**Prerequisites:** admis to Post Bac Cert prog or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 601G Behavioral Supports**

3 cr. Undergraduate/Graduate.

Addresses needs of students with challenging behaviors. Emphasis on working collaboratively to conduct functional behavioral analysis.

**Prerequisites:** admis to Post Bac Cert prog or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 602 Resources and Instruction in American Sign Language**

3 cr. Undergraduate/Graduate.

Course focuses on assessment and methodology components in teaching ASL as a foreign language.

**Prerequisites:** jr st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 602G Resources and Instruction in American Sign Language**

3 cr. Undergraduate/Graduate.

Course focuses on assessment and methodology components in teaching ASL as a foreign language.

**Prerequisites:** jr st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 605 Child, Learner, Disabilities**

3 cr. Undergraduate/Graduate.

Perspectives on disability; learning characteristics associated with disabilities; historical, legal and philosophical foundations; child mentoring and advocacy linked with a family-based practicum.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr.

**Course Rules:** Counts as repeat of EXCEDUC 530 and EXCEDUC 531.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 605G Child, Learner, Disabilities**

3 cr. Undergraduate/Graduate.

Perspectives on disability; learning characteristics associated with disabilities; historical, legal and philosophical foundations; child mentoring and advocacy linked with a family-based practicum.

**Prerequisites:** admis to Post-Bac Cert prog or cons instr.

**Course Rules:** Counts as repeat of EXCEDUC 530 and EXCEDUC 531.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 607 Working with Culturally Diverse Deaf Students**

3 cr. Undergraduate/Graduate.

Discusses the educational and culturally diverse backgrounds of deaf students in the schools.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of EXCEDUC 579 with similar topic.

**Last Taught:** Summer 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 607G Working with Culturally Diverse Deaf Students**

3 cr. Undergraduate/Graduate.

Discusses the educational and culturally diverse backgrounds of deaf students in the schools.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of EXCEDUC 579 with similar topic.

**Last Taught:** Summer 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 608 Multicultural Learning and Teaching in Special Education**

3 cr. Undergraduate/Graduate.

Covers theoretical and practical applications of multicultural issues to learning and teaching in special education.

**Prerequisites:** jr st.

**Last Taught:** Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 608G Multicultural Learning and Teaching in Special Education**

3 cr. Undergraduate/Graduate.

Covers theoretical and practical applications of multicultural issues to learning and teaching in special education.

**Prerequisites:** jr st.

**Last Taught:** Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 612 Collaborations for Teachers with Families, Schools, and Communities**

3 cr. Undergraduate/Graduate.

Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.

**Prerequisites:** jr st; admis to SOE; or cons instr.

**Course Rules:** Counts as repeat of CURRINS 505 and EXCEDUC 651.

Jointly offered with and counts as repeat of CURRINS 612.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 612G Collaborations for Teachers with Families, Schools, and Communities**

3 cr. Undergraduate/Graduate.

Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.

**Prerequisites:** jr st; admis to SOE; or cons instr.

**Course Rules:** Counts as repeat of CURRINS 505 and EXCEDUC 651.

Jointly offered with and counts as repeat of CURRINS 612.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 613 Infant and Early Childhood Assessment**

3 cr. Undergraduate/Graduate.

Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of ED PSY 575. Jointly offered with and counts as repeat of ED PSY 613.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 613G Infant and Early Childhood Assessment**

3 cr. Undergraduate/Graduate.

Theoretical and applied aspects of early childhood assessment. Experience administering specific individual and group (screening) tests. Assessment of language, cognition, motor, adaptive behavior, developmental delay.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of ED PSY 575. Jointly offered with and counts as repeat of ED PSY 613.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 630 Survey of EC Intervention: Young Children with Special Needs, Families**

3 cr. Undergraduate/Graduate.

Introduction to etiology, historic background, current service provisions, and issues and trends as related to infants, toddlers, and preschoolers with disabilities and their families.

**Prerequisites:** junior standing and admission to the School of Education; or graduate standing.

**Course Rules:** Counts as a repeat of TCH LRN 430.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 630G Survey of EC Intervention: Young Children with Special Needs, Families**

3 cr. Undergraduate/Graduate.

Introduction to etiology, historic background, current service provisions, and issues and trends as related to infants, toddlers, and preschoolers with disabilities and their families.

**Prerequisites:** junior standing and admission to the School of Education; or graduate standing.

**Course Rules:** Counts as a repeat of TCH LRN 430.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 631 Methods for Teaching Commun Skills to Students with Severe Disabilities**

3 cr. Undergraduate/Graduate.

Study of assessment, instructional, and augmentative techniques for teaching and providing communication (vocal and non-vocal) to students with severe disabilities.

**Prerequisites:** sr st; EXCEDUC 665(410)(P), COMSDIS 240(P), or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 631G Methods for Teaching Commun Skills to Students with Severe Disabilities**

3 cr. Undergraduate/Graduate.

Study of assessment, instructional, and augmentative techniques for teaching and providing communication (vocal and non-vocal) to students with severe disabilities.

**Prerequisites:** sr st; EXCEDUC 665(410)(P), COMSDIS 240(P), or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 633 Interdisciplinary Team Field Experience in Urban Settings**

2 cr. Undergraduate/Graduate.

Field experience is designed to develop student's skills as members of interdisciplinary teams in urban community settings.

**Prerequisites:** jr st; EXCEDUC 634(C).

**Last Taught:** Summer 2006, Summer 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 633G Interdisciplinary Team Field Experience in Urban Settings**

2 cr. Undergraduate/Graduate.

Field experience is designed to develop student's skills as members of interdisciplinary teams in urban community settings.

**Prerequisites:** jr st; EXCEDUC 634(C).

**Last Taught:** Summer 2006, Summer 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities**

3 cr. Undergraduate/Graduate.

Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.

**Prerequisites:** jr st.

**Course Rules:** EXCEDUC 634, OCCTHPY 634, & COMSDIS 634 are jointly offered; they count as repeats of one another.

**Last Taught:** Summer 2007, Summer 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 634G Collaborative Consultation/Teaming-Serving Young Children with Disabilities**

3 cr. Undergraduate/Graduate.

Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.

**Prerequisites:** jr st.

**Course Rules:** EXCEDUC 634, OCCTHPY 634, & COMSDIS 634 are jointly offered; they count as repeats of one another.

**Last Taught:** Summer 2007, Summer 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 635 Individualized Planning & Instructional Methods**

2-3 cr. Undergraduate/Graduate.

Methods and strategies for teaching and evaluating adolescents with disabilities. Special emphasis given to individual educational programs, lesson planning and scheduling.

**Prerequisites:** jr st; admis to Post-Bac cert prog or cons instr; EXCEDUC 487(C) & EXCEDUC 587(C) or cons instr.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 635G Individualized Planning & Instructional Methods**

2-3 cr. Undergraduate/Graduate.

Methods and strategies for teaching and evaluating adolescents with disabilities. Special emphasis given to individual educational programs, lesson planning and scheduling.

**Prerequisites:** jr st; admis to Post-Bac cert prog or cons instr; EXCEDUC 487(C) & EXCEDUC 587(C) or cons instr.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 636 Curriculum Accommodations**

2-3 cr. Undergraduate/Graduate.

Methods and strategies for teaching and evaluating adolescents with learning disabilities, emotional disturbance and cognitive disabilities. Special emphasis given to developing individual adaptations and modifications.

**Prerequisites:** jr st; admis to Post-Bac Cert prog or cons instr; EXCEDUC 635(P); EXCEDUC 488(C) & EXCEDUC 588(C) or cons instr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 636G Curriculum Accommodations**

2-3 cr. Undergraduate/Graduate.

Methods and strategies for teaching and evaluating adolescents with learning disabilities, emotional disturbance and cognitive disabilities. Special emphasis given to developing individual adaptations and modifications.

**Prerequisites:** jr st; admis to Post-Bac Cert prog or cons instr; EXCEDUC 635(P); EXCEDUC 488(C) & EXCEDUC 588(C) or cons instr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 644 Enhancing Literacy Learning for Diverse Learners:**

3 cr. Undergraduate/Graduate.

Teaching reading and writing to diverse learners.

**Prerequisites:** currently teaching with at least 2 yrs experience; cons instr.

**Course Rules:** Jointly offered with & subtitles count as repeat of same title of CURRINS 644. CURRINS 644 & EXCEDUC 644 may be retaken with change of topic to combined 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 644G Enhancing Literacy Learning for Diverse Learners:**

3 cr. Undergraduate/Graduate.

Teaching reading and writing to diverse learners.

**Prerequisites:** currently teaching with at least 2 yrs experience; cons instr.

**Course Rules:** Jointly offered with & subtitles count as repeat of same title of CURRINS 644. CURRINS 644 & EXCEDUC 644 may be retaken with change of topic to combined 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 647 Early Childhood Special Education Field Experience: 0 to 3 Yrs**

3 cr. Undergraduate/Graduate.

Provides urban experiences in early intervention programs to develop teaching skills in birth to three programs.

**Prerequisites:** jr st; admis to ExcEduc prog.

**Course Rules:** May be retaken to 9 cr max.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 647G Early Childhood Special Education Field Experience: 0 to 3 Yrs**

3 cr. Undergraduate/Graduate.

Provides urban experiences in early intervention programs to develop teaching skills in birth to three programs.

**Prerequisites:** jr st; admis to ExcEduc prog.

**Course Rules:** May be retaken to 9 cr max.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 648 Early Childhood Special Education Field Experience: Preschool**

3 cr. Undergraduate/Graduate.

Practicum provides urban teaching experiences in preschool programs to develop skills for working with 3-to-5 year olds with special needs and their families.

**Prerequisites:** junior standing and admission to an Exceptional Education program.

**Course Rules:** May be retaken to 9 cr max. Counts as a repeat of TCH LRN 309 or CURRINS 340.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 648G Early Childhood Special Education Field Experience: Preschool**

3 cr. Undergraduate/Graduate.

Practicum provides urban teaching experiences in preschool programs to develop skills for working with 3-to-5 year olds with special needs and their families.

**Prerequisites:** junior standing and admission to an Exceptional Education program.

**Course Rules:** May be retaken to 9 cr max. Counts as a repeat of TCH LRN 309 or CURRINS 340.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 649 Early Childhood Special Education Field Experience: Primary**

3 cr. Undergraduate/Graduate.

Practicum provides urban teaching experiences in primary school-age programs to develop skills for working with 1st to 3rd graders with special needs and their families.

**Prerequisites:** junior standing and admission to Exceptional Education program.

**Course Rules:** May be retaken to 9 cr max. Counts as a repeat of TCH LRN 409 or CURRINS 440.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 649G Early Childhood Special Education Field Experience: Primary**

3 cr. Undergraduate/Graduate.

Practicum provides urban teaching experiences in primary school-age programs to develop skills for working with 1st to 3rd graders with special needs and their families.

**Prerequisites:** junior standing and admission to Exceptional Education program.

**Course Rules:** May be retaken to 9 cr max. Counts as a repeat of TCH LRN 409 or CURRINS 440.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 651 Working With Families in Urban Communities**

3 cr. Undergraduate/Graduate.

Familial and ecological factors affecting individuals with disabilities and their caregivers including in-depth experiences with a family who has a young child with special needs.

**Prerequisites:** jr st.

**Last Taught:** Spring 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 651G Working With Families in Urban Communities**

3 cr. Undergraduate/Graduate.

Familial and ecological factors affecting individuals with disabilities and their caregivers including in-depth experiences with a family who has a young child with special needs.

**Prerequisites:** jr st.

**Last Taught:** Spring 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 652 Developmental Evaluation of Young Children with Disabilities**

3 cr. Undergraduate/Graduate.

The major functions of assessment used by Early Childhood Special Educators.

**Prerequisites:** junior standing.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 652G Developmental Evaluation of Young Children with Disabilities**

3 cr. Undergraduate/Graduate.

The major functions of assessment used by Early Childhood Special Educators.

**Prerequisites:** junior standing.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 655 Introduction to Education of Individuals Who are Deaf and Hard of Hearing**

3 cr. Undergraduate/Graduate.

Overview of educational programs and policies for pre K-12 students who are deaf and hard of hearing.

**Prerequisites:** jr st.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 655G Introduction to Education of Individuals Who are Deaf and Hard of Hearing**

3 cr. Undergraduate/Graduate.

Overview of educational programs and policies for pre K-12 students who are deaf and hard of hearing.

**Prerequisites:** jr st.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 662 Collaborative Strategies**

3 cr. Undergraduate/Graduate.

Provides the teacher with techniques that will assist in establishing relationships with other professionals, parents, and community agencies.

**Prerequisites:** jr st; EXCEDUC 300(P), EXCEDUC 600(P), or EXCEDUC 605(P); admis to Post-Bac Cert prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 662G Collaborative Strategies**

3 cr. Undergraduate/Graduate.

Provides the teacher with techniques that will assist in establishing relationships with other professionals, parents, and community agencies.

**Prerequisites:** jr st; EXCEDUC 300(P), EXCEDUC 600(P), or EXCEDUC 605(P); admis to Post-Bac Cert prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 665 Language and Literacy for the Exceptional Student**

3 cr. Undergraduate/Graduate.

An overview of the theoretical underpinnings for language and literacy practices, assessments, and methods of facilitating growth in students with exceptional education needs.

**Prerequisites:** EXCEDUC 300 or equiv; COMSDIS 240; jr st & admis to School of Educ or grad st.

**Last Taught:** Summer 2004, Summer 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 665G Language and Literacy for the Exceptional Student**

3 cr. Undergraduate/Graduate.

An overview of the theoretical underpinnings for language and literacy practices, assessments, and methods of facilitating growth in students with exceptional education needs.

**Prerequisites:** EXCEDUC 300 or equiv; COMSDIS 240; jr st & admis to School of Educ or grad st.

**Last Taught:** Summer 2004, Summer 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 671 Behavior Support & Intervention for Mid/High Students with Disabilities**

3 cr. Undergraduate/Graduate.

Techniques in arranging academic and social environments for adolescents having learning and social problems.

**Prerequisites:** admis to Middle/High prog; cons instr.

**Last Taught:** Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 671G Behavior Support & Intervention for Mid/High Students with Disabilities**

3 cr. Undergraduate/Graduate.

Techniques in arranging academic and social environments for adolescents having learning and social problems.

**Prerequisites:** admis to Middle/High prog; cons instr.

**Last Taught:** Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 676 Learning Strategies II: Cognitiv/Metacognitiv Intervntns-Mild Hndicppd Stdnts**

3 cr. Undergraduate/Graduate.

Indepth analysis of strategy instruction for use with adolescents with mild handicaps.

**Prerequisites:** jr st; EXCEDUC 675; cons instr; teacher certification.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 676G Learning Strategies II: Cognitiv/Metacognitiv Intervntns-Mild Hndicppd Stdnts**

3 cr. Undergraduate/Graduate.

Indepth analysis of strategy instruction for use with adolescents with mild handicaps.

**Prerequisites:** jr st; EXCEDUC 675; cons instr; teacher certification.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 679 Critical Issues in Transition Planning for Students with Disabilities**

3 cr. Undergraduate/Graduate.

Understanding transition planning and tools to effectively assist students with disabilities in the transition process.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of EXCEDUC 589 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 679G Critical Issues in Transition Planning for Students with Disabilities**

3 cr. Undergraduate/Graduate.

Understanding transition planning and tools to effectively assist students with disabilities in the transition process.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of EXCEDUC 589 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 680 Literacy I**

3 cr. Undergraduate/Graduate.

Observing and assessing reading and writing; implementing basic strategies toward supporting reading and writing development; becoming a motivated reader/writer.

**Prerequisites:** admis to the Post-Bac Cert prog or cons instr.

**Last Taught:** Summer 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 680G Literacy I**

3 cr. Undergraduate/Graduate.

Observing and assessing reading and writing; implementing basic strategies toward supporting reading and writing development; becoming a motivated reader/writer.

**Prerequisites:** admis to the Post-Bac Cert prog or cons instr.

**Last Taught:** Summer 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 681 Literacy II**

3 cr. Undergraduate/Graduate.

Organizing and implementing literacy instruction. Addressing the individual strengths and needs in communication of students with disabilities.

**Prerequisites:** EXCEDUC 680(P); admis to the Post-Bac Cert prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 681G Literacy II**

3 cr. Undergraduate/Graduate.

Organizing and implementing literacy instruction. Addressing the individual strengths and needs in communication of students with disabilities.

**Prerequisites:** EXCEDUC 680(P); admis to the Post-Bac Cert prog or cons instr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 682 Language and Literacy in Early Childhood Special Education**

3 cr. Undergraduate/Graduate.

Methods in language and literacy instruction for children with special needs including study of first and second language development in children birth through age eight.

**Prerequisites:** jr st; admis to Post-Bac cert prog, or cons instr.

**Last Taught:** Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 682G Language and Literacy in Early Childhood Special Education**

3 cr. Undergraduate/Graduate.

Methods in language and literacy instruction for children with special needs including study of first and second language development in children birth through age eight.

**Prerequisites:** jr st; admis to Post-Bac cert prog, or cons instr.**Last Taught:** Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 684 Multisensory Structured Language Teaching**

3 cr. Undergraduate/Graduate.

Advanced study of dyslexia and how to implement remedial approaches to literacy. Includes a required practicum experience.

**Prerequisites:** Post-bac status or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 684G Multisensory Structured Language Teaching**

3 cr. Undergraduate/Graduate.

Advanced study of dyslexia and how to implement remedial approaches to literacy. Includes a required practicum experience.

**Prerequisites:** Post-bac status or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 685 Advanced Methods in Learning Disabilities**

3 cr. Undergraduate/Graduate.

Examination of recommended instructional practices in the areas of literacy, mathematics, organization and study skills, social interactions and self-advocacy.

**Prerequisites:** grad st or admis to Post-Bac Cert prog or cons instr.**Course Rules:** Counts as repeat of EXCEDUC 589 with same topic.**Last Taught:** Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 685G Advanced Methods in Learning Disabilities**

3 cr. Undergraduate/Graduate.

Examination of recommended instructional practices in the areas of literacy, mathematics, organization and study skills, social interactions and self-advocacy.

**Prerequisites:** grad st or admis to Post-Bac Cert prog or cons instr.**Course Rules:** Counts as repeat of EXCEDUC 589 with same topic.**Last Taught:** Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 699 Independent Reading**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** jr st & admis to School of Educ or grad st; cons instr.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 699G Independent Reading**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** jr st & admis to School of Educ or grad st; cons instr.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 703 Job Development and On the Job Support for Individuals with Disabilities**

3 cr. Graduate.

Overview of the career development process and a person-centered framework for job development and job support.

**Prerequisites:** grad st; EXCEDUC 679(P) or cons instr.**Last Taught:** Spring 2022, Fall 2019, Spring 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 705 Transition Assessment for Individuals with Disabilities**

3 cr. Graduate.

Transition assessments related to training, education, employment, and living skills for students with disabilities.

**Prerequisites:** grad st; EXCEDUC 679(P); or cons instr.**Last Taught:** Fall 2022, Fall 2021, Fall 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 707 Linking Academics and Self-Determination to Transition Planning**

3 cr. Graduate.

Youth development and the importance of preparing youth to take the lead in their education, career development, and community participation.

**Prerequisites:** grad st; EXCEDUC 679(P); or cons instr.**Last Taught:** Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 708 Student, Family & Community Involvement in the Transition Planning Process**

3 cr. Graduate.

This course is designed to explore trends & strategies relative to the development of self determination skills, person-centered planning & educators as consultants in transition planning.

**Prerequisites:** grad st; EXCEDUC 679(P); cons instr.**Last Taught:** Fall 2001.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 715 Issues and Trends in Exceptional Education**

3 cr. Graduate.

Designed for students with entry level experience in exceptional education, the course reviews the exceptional education populations, methodology and current issues and trends.

**Prerequisites:** grad st; EXCEDUC 300 or equiv or cons dept.**Last Taught:** Summer 2023, Fall 2021, Fall 2020, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 716 Ethics in Applied Behavior Analysis**

3 cr. Graduate.

Ethical and professional practice of applied behavior analysis.

**Prerequisites:** graduate standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 718 Behavioral Assessment**

3 cr. Graduate.

Assessments in applied behavior analysis for both clinical and educational settings.

**Prerequisites:** graduate standing; PSYCH 702(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 720 Behavior Change**

4 cr. Graduate.

Specific behavior-change procedures including how to select and implement evidence-based practices.

**Prerequisites:** graduate standing; PSYCH 714(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 724 Personnel and Supervision in Applied Behavior Analysis**

2 cr. Graduate.

Effective supervisory strategies including evaluation, feedback, and training tactics for behavior analysts.

**Prerequisites:** graduate standing; PSYCH 714(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 726 Racial Equity in Behavior Analysis**

1 cr. Graduate.

Critical race and disability studies lens applied to the field of behavior analysis.

**Prerequisites:** graduate standing.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 730 Assistive and Instructional Technology for Students with Disabilities**

3 cr. Graduate.

Introduction to special education technology emphasizing applications for students with disabilities and their teachers.

**Prerequisites:** grad st.

**Last Taught:** Spring 2011, Spring 2010, Spring 2009, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 735 Technology & Instruction for Students with Disabilities**

3 cr. Graduate.

Curriculum intergration models and technology integration strategies for enhancing educational outcomes of students with disabilities.

**Prerequisites:** grad st.

**Last Taught:** Spring 2011, Spring 2010, Spring 2009, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 740 Universal Design for Learning: Research and Practice**

3 cr. Graduate.

Study of research in universal design for learning and design of classroom interventions that enhance the performance of students with disabilities and their non-handicapped peers.

**Prerequisites:** grad st.

**Course Rules:** Counts as repeat of EXCEDUC 779 with same topic.

**Last Taught:** Spring 2011, Summer 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 742 Single Case Experimental Design**

3 cr. Graduate.

Readings, discussions, and learning experiences in single-case research methodology. Learners acquire knowledge and skills to plan, implement and analyze single-case interventions.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** EXCEDUC 742 and OCCTHPY 742 are jointly offered and count as repeats of one another. Counts as a repeat of OCCTHPY 590 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 760 Foundations of Autism Spectrum Disorders**

3 cr. Graduate.

Examination of characteristics of individuals with autism spectrum disorders. Focus on causes, prevalence, assessment, diagnosis, and impact on personal lives.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 761 Methods for Working with Individuals with Autism**

3 cr. Graduate.

Strategies for special education teachers and others for effectively working with individuals with autism spectrum disorders. Overview of instructional issues, inclusion, and curriculum development.

**Prerequisites:** grad st.; EXCEDUC 760(P) or cons instr.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 762 Academic/Social Challenges of Individuals with ASD: Adv Interventions**

3 cr. Graduate.

Intervention and Supports for Individuals with high functioning Autism and Asperger Syndrome.

**Prerequisites:** grad st.; EXCEDUC 760(P) and EXCEDUC 761(P) or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 765 Assistive Technology Service Delivery in Schools**

3 cr. Graduate.

Introduction to legal, legislative, and policy foundations guiding the creation and delivery of assistive technology services in schools, clinics and agencies.

**Prerequisites:** grad st.

**Last Taught:** Summer 2021, Summer 2019, Summer 2016, Summer 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 770 Seminar: Research on Individuals With Special Needs**

3 cr. Graduate.

Recent research relevant to individuals with handicapping conditions.

**Prerequisites:** grad st; EXCEDUC 300(P) or EXCEDUC 600(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 771 Field Work with Students Having Exceptional Education Needs**

3 cr. Graduate.

**Prerequisites:** grad st; cons dept.

**Course Rules:** Retakable to 9 cr max.

**Last Taught:** Summer 2020, Fall 2018, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 772 Field Work with Students Having Hearing Impairments**

1-3 cr. Graduate.

**Prerequisites:** grad st; cons dept.

**Course Rules:** Retakable to 9 cr max.

**Last Taught:** Fall 2017, Fall 2016, Summer 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**EXCEDUC 773 Field Work with Students Having Cognitive Disabilities**

3 cr. Graduate.

**Prerequisites:** grad st; cons dept.

**Course Rules:** Retakable to 9 cr max.

**Last Taught:** Fall 2004, Spring 1997, Summer 1988.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 775 Field Work: Individuals with Autism Spectrum Disorders**

3 cr. Graduate.

**Prerequisites:** grad st; EXCEDUC 760(P) & EXCEDUC 761(C) or cons instr.

**Last Taught:** Summer 2022, Fall 2017, Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 776 Fieldwork with Students Having Early Childhood-Exceptional Education Needs**

1-3 cr. Graduate.

**Prerequisites:** grad st; cons dept.

**Course Rules:** Retakable to 9 cr max.

**Last Taught:** Spring 2022, Fall 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 777 Fieldwork in Assistive Technology**

1-6 cr. Graduate.

Provides students with a school- or clinic-based experience in the delivery of assistive technology services.

**Prerequisites:** grad st & cons instr.

**Course Rules:** EXCEDUC 777 & OCCTHPY 777 are jointly offered; they count as repeats of one another. May be retaken for 9 cr max.

**Last Taught:** Spring 2016, Fall 2014, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 778 Field Work with Students Having Learning Disabilities**

3 cr. Graduate.

**Prerequisites:** grad st; cons dept.

**Course Rules:** Retakable to 9 cr max.

**Last Taught:** Fall 2008, Spring 2008, Fall 2003, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 779 Current Topics in Exceptional Education:**

1-3 cr. Graduate.

Specific topic announced in schedule of classes each time course is offered.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Spring 2009, Spring 1989, Fall 1988.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 790 Administration of Pupil Services**

3 cr. Graduate.

Review and analysis of pupil service programs in K-12 education, considers historical, legal and professional proactive standards.

**Prerequisites:** grad st; AD LDSP 710(P), AD LDSP 752(P); cons instr.

**Last Taught:** Fall 2004, Spring 2004, Fall 2003, Summer 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 799 Independent Reading**

1-3 cr. Graduate.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Spring 2023, Summer 2021, Spring 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 801 Urban Education: Doctoral Seminar in Exceptional Education**

3 cr. Graduate.

Examination of research on exceptional education in urban settings including topics related to students in general and special education environments.

**Prerequisites:** grad st; admis to urban educ doctoral prog; EDUC 701.

**Last Taught:** Spring 2009, Spring 2006, Spring 2003, Fall 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 815 Capstone Course In Special Education**

3 cr. Graduate.

Culmination of course work during the graduate program leading to the development of the thesis or graduate project.

**Prerequisites:** grad st; EXCEDUC 715 (P).

**Last Taught:** Fall 2014, Summer 2014, Fall 2013, Summer 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 880 Proseminar in Urban Education: Exceptional Education**

3 cr. Graduate.

An examination of selected problems and issues in urban education.

**Prerequisites:** grad st; admis to Urban Educ doctoral prog.

**Last Taught:** Fall 2023, Spring 2022, Summer 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2019, Fall 2015, Summer 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 890 Master's Research Project**

1-6 cr. Graduate.

Research project for master's degree in Exceptional Education.

**Prerequisites:** grad st; cons instr

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 900 Seminar: Urban Issues in Exceptional Education**

3 cr. Graduate.

Analysis of societal forces affecting special education, teachers, and pupils in an urban environment. Emphasis on social-political-economic and human-relations factors operant in special education programs.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Spring 2023, Summer 2022, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 950 Seminar: Research on Mental Retardation**

3 cr. Graduate.

Review of literature in mental retardation. Evaluation of recent research.

**Prerequisites:** grad st; EXCEDUC 640.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**EXCEDUC 953 Semnr-Resrch on Early Intrvntn: Infnts/Young Chldrn w/ Spcl Needs & Families**

3 cr. Graduate.

Analysis of research and contemporary issues in early intervention for infants, toddlers, and preschoolers with special needs and their families.

**Prerequisites:** grad st; EXCEDUC 630 or EXCEDUC 640 or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 955 Seminar: Research on Students with Severe Handicaps**

3 cr. Graduate.

Analysis of the contemporary issues and trends in the field of the education of students with severe handicaps.

**Prerequisites:** grad st; EXCEDUC 556 or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 960 Seminar: Administration/Supervision of Programs for Exceptional Individuals**

3 cr. Graduate.

Administration, supervision, philosophy, organization, and federal and state legislation affecting individuals with handicapping conditions.

**Prerequisites:** grad st; EXCEDUC 300 or EXCEDUC 600.**Last Taught:** Fall 2023, Fall 2022, Fall 2017, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 975 Seminar: Research on Individuals with Hearing Impairments**

3 cr. Graduate.

Review of literature on hearing impairments and education of individuals with hearing impairments. Evaluation of recent research.

**Prerequisites:** grad st; EXCEDUC 650.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 990 Research or Thesis**

1-6 cr. Graduate.

**Prerequisites:** grad st & cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**EXCEDUC 999 Independent Reading**

1-3 cr. Graduate.

For benefit of superior graduate students unable to secure needed content in regular courses.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2019, Fall 2017, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Film Studies (FILMSTD)

**FILMSTD 111 Entertainment Arts: Film, Television, and the Internet**

3 cr. Undergraduate.

History of film, television, and the internet. Focus on economic and aesthetic features of these media and interrelationships among them. Models for critiquing each form.

**Prerequisites:** none.**Course Rules:** ArtHist 111, English 111, & FilmStd 111 are jointly offered; they count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILMSTD 192 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** HU**Last Taught:** Fall 2019, Fall 2015, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILMSTD 205 History of Film I: Development of an Art**

3 cr. Undergraduate.

The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.

**Prerequisites:** none.**Course Rules:** ArtHist 205 & FilmStd 205 are jointly offered; they count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILMSTD 206 History of Film II: Development of an Art**

3 cr. Undergraduate.

The technology, style, history, and theory of the medium. Aesthetic advances from silent to color and sound films. Contributions of various nationalities and artists.

**Prerequisites:** none.**Course Rules:** ArtHist 206 & FilmStd 206 are jointly offered; they count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILMSTD 212 Intermediate Topics in Film and Television Studies:**

3 cr. Undergraduate.

Stylistic, generic, historical, or theoretical issues in film and/or television studies.

**Prerequisites:** sophomore standing or ENGLISH 290(P).**Course Rules:** Retakable with change in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILMSTD 286 Writing about Film and Television**

3 cr. Undergraduate.

Intensive practice and study of the critical and technical elements of writing with emphasis on close reading and writing about media images and narratives.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.**Course Rules:** English 286 & FilmStd 286 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 290 Introduction to Film Studies**

3 cr. Undergraduate.

Analysis of formal, thematic, and generic components of narrative, documentary, and avant garde filmmaking.

**Prerequisites:** none.

**Course Rules:** English 290 & FilmStd 290 are jointly offered; they count as repeats of one another.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 291 Introduction to Television Studies**

3 cr. Undergraduate.

The forms, images, and narratives particular to television.

**Prerequisites:** none.

**Course Rules:** English 291 & FilmStd 291 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 292 Classic Dramas in Film:**

1 cr. Undergraduate.

A sampling of great plays in film versions, with performances by acclaimed actors.

**Prerequisites:** none.

**Course Rules:** Offered on a cr/no cr basis. Retakable w/chg in topic to 3 cr max. English 292 & FilmStd 292 are jointly offered; w/same topic, they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 294 Game Culture**

3 cr. Undergraduate.

Critical study of games, digital and otherwise; forms, conventions, and practices that inform design and reception of games; place of games in contemporary culture.

**Prerequisites:** GER OWC-A.

**Course Rules:** Counts as repeat of English 380 w/same topic. English 294 & FilmStd 294 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 295 Women and Film**

3 cr. Undergraduate.

A study of the representation of women in narrative, documentary, and avant garde film, television and/or video, including a survey of psychoanalytic theories of spectatorship and feminist analyses of mass culture.

**Prerequisites:** soph st.

**Course Rules:** English 295 & FilmStd 295 are jointly offered; they count as repeats of one another.

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** Retakable w/change in topic.

**Last Taught:** Spring 2022, Fall 2019, Spring 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none, except as required for specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 305 Film Analysis I: Method and Theory**

3 cr. Undergraduate/Graduate.

Film language, critical methods, and theory applied to selected works of film art. Cross-cultural analysis of styles and themes. Study of major film artists.

**Prerequisites:** jr st.

**Course Rules:** ArtHist 305 & FilmStd 305 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 305G Film Analysis I: Method and Theory**

3 cr. Undergraduate/Graduate.

Film language, critical methods, and theory applied to selected works of film art. Cross-cultural analysis of styles and themes. Study of major film artists.

**Prerequisites:** jr st.

**Course Rules:** ArtHist 305 & FilmStd 305 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 306 Film Analysis II: Method and Theory**

3 cr. Undergraduate/Graduate.

Film language, critical methods, and theory applied to selected works of major national film artists. Cross-cultural analysis of styles and themes.

**Prerequisites:** jr st.

**Course Rules:** ArtHist 306 & FilmStd 306 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 306G Film Analysis II: Method and Theory**

3 cr. Undergraduate/Graduate.

Film language, critical methods, and theory applied to selected works of major national film artists. Cross-cultural analysis of styles and themes.

**Prerequisites:** jr st.

**Course Rules:** ArtHist 306 & FilmStd 306 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 307 Film Directors:**

3 cr. Undergraduate/Graduate.

Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work.

**Prerequisites:** jr st; ArtHist 205(R) or 305(R).

**Course Rules:** Retakable w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another.

**Last Taught:** Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 307G Film Directors:**

3 cr. Undergraduate/Graduate.

Comprehensive analysis of the technique, style, and themes of specific major film artists. Biographical, cultural, artistic influences on artists' work.

**Prerequisites:** jr st; ArtHist 205(R) or 305(R).

**Course Rules:** Retakable w/chg in topic to 9 cr max. ArtHist 307 & FilmStd 307 are jointly offered; w/same topic they count as repeats of one another.

**Last Taught:** Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 308 Film Styles:**

3 cr. Undergraduate/Graduate.

A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.

**Prerequisites:** jr st.

**Course Rules:** Retakable w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another.

**Last Taught:** Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 308G Film Styles:**

3 cr. Undergraduate/Graduate.

A stylistic analysis of film of major filmmakers made within the structures of particular genres, such as gangsters, musicals, westerns, horror, science fiction and studios.

**Prerequisites:** jr st.

**Course Rules:** Retakable w/chg in topic to 9 cr max. ArtHist 308 & FilmStd 308 are jointly offered; w/same topic they count as repeats of one another.

**Last Taught:** Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 312 Topics in Film, Television and Digital Studies:**

3 cr. Undergraduate.

Study of stylistic, generic, historical, or theoretical issues in film, television and/or digital studies.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 290(P).

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 312 and FILMSTD 312 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 316 World Cinema:**

3 cr. Undergraduate.

National cinemas in first, second, and/or third world nations; relationships among representation, narrative, and social forms.

**Prerequisites:** jr. st or English 290(P); satisfaction of OWC-A.

**Course Rules:** Retakable w/chg in topic to 9 cr max. ComplLit 316, English 316 & FilmStd 316 are jointly offered; w/same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 320 Studies in Film and Television Authorship:**

3 cr. Undergraduate.

The function of authorship in the cinema and/or in television; the roles of producer, director, screenwriter, and star.

**Prerequisites:** junior standing or ENGLISH 290(P), and satisfaction of GER English Composition competency requirement.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 320 and FILMSTD 320 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2023, Fall 2021, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 329 Film and Literature**

3 cr. Undergraduate/Graduate.

Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode.

**Prerequisites:** jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.

**Course Rules:** English 329 & FilmStd 329 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 329G Film and Literature**

3 cr. Undergraduate/Graduate.

Capabilities and limitations of narrative film and literature, emphasizing the distinctiveness of each artistic mode.

**Prerequisites:** jr st, English 290(P), satisfaction of GER English Composition competency req; or cons instr.

**Course Rules:** English 329 & FilmStd 329 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 330 Film and Drama:**

3 cr. Undergraduate.

Capabilities and limitations of narrative film and drama, emphasizing the distinctiveness of each artistic mode.

**Prerequisites:** jr st or English 290(P); satisfaction of GER English Composition competency req.

**Course Rules:** Retakable w/chg in topic to 9 cr max. English 330 & FilmStd 330 are jointly offered; w/same topic, they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 350 Global Jewish Film and Television:**

3 cr. Undergraduate.

Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism.

**Prerequisites:** junior standing.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 350, FILMSTD 350, and JEWISH 350 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 380 Media and Society:**

3 cr. Undergraduate/Graduate.

An examination of film, television, and/or digital media culture, with attention to class, gender, race, sexuality, nation and the environment.

**Prerequisites:** junior standing and ENGLISH 290(P) or ENGLISH 291 (P) or 6 cr in courses approved for hum breadth cr.

**Course Rules:** May be retaken with change in topic to 9 cr max.

ENGLISH 380 and FILMSTD 380 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 380G Media and Society:**

3 cr. Undergraduate/Graduate.

An examination of film, television, and/or digital media culture, with attention to class, gender, race, sexuality, nation and the environment.

**Prerequisites:** junior standing and ENGLISH 290(P) or ENGLISH 291 (P) or 6 cr in courses approved for hum breadth cr.

**Course Rules:** May be retaken with change in topic to 9 cr max.

ENGLISH 380 and FILMSTD 380 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 383 Cinema, Television, and Genre:**

3 cr. Undergraduate/Graduate.

Stylistic and thematic analyses of film and/or television genres (e.g., melodrama, film noir, sitcom). Consideration of writers, directors, producers and stars whose works represent forms of a genre.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 290(P) or 6 cr in courses approved for hum breadth cr.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 383 and FILMSTD 383 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 383G Cinema, Television, and Genre:**

3 cr. Undergraduate/Graduate.

Stylistic and thematic analyses of film and/or television genres (e.g., melodrama, film noir, sitcom). Consideration of writers, directors, producers and stars whose works represent forms of a genre.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 290(P) or 6 cr in courses approved for hum breadth cr.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 383 and FILMSTD 383 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 390 Classical Film Criticism and Theory**

3 cr. Undergraduate/Graduate.

Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing.

**Prerequisites:** jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.

**Course Rules:** English 390 & FilmStd 390 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 390G Classical Film Criticism and Theory**

3 cr. Undergraduate/Graduate.

Survey of the history of film theory, with particular attention to developing critical skills in film theoretical writing.

**Prerequisites:** jr st, satisfaction of GER English Composition competency req, English 290(P), & ArtHist 205(P); or cons instr.

**Course Rules:** English 390 & FilmStd 390 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 391 Television Criticism and Theory**

3 cr. Undergraduate/Graduate.

Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 291 (P) or cons instr.

**Course Rules:** English 391 & FilmStd 391 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 391G Television Criticism and Theory**

3 cr. Undergraduate/Graduate.

Study of the forms and representational strategies of television narrative, and the various modes of analysis that may be applied to television viewers and texts.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 291 (P) or cons instr.

**Course Rules:** English 391 & FilmStd 391 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 392 Contemporary Film Criticism and Theory:**

3 cr. Undergraduate/Graduate.

Current issues in film criticism and theory and an exploration of critical perspectives (psychoanalysis, feminism, structuralism, post-structuralism) informing recent debates in film studies.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 290(P) or 291 (P) or cons instr.

**Course Rules:** Retakable w/chg in topic to 9 cr max. English 392 & FilmStd 392 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 392G Contemporary Film Criticism and Theory:**

3 cr. Undergraduate/Graduate.

Current issues in film criticism and theory and an exploration of critical perspectives (psychoanalysis, feminism, structuralism, post-structuralism) informing recent debates in film studies.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 290(P) or 291 (P) or cons instr.

**Course Rules:** Retakable w/chg in topic to 9 cr max. English 392 & FilmStd 392 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 393 Entertainment Industries:**

3 cr. Undergraduate.

In-depth look at contemporary media industries both in the U.S. and globally. Emphasis on changing content, production and viewing practices.

**Prerequisites:** jr st; satisfaction of OWC-A; English 290(P), English 291(P), or cons instr.

**Course Rules:** English 393 & FilmStd 393 are jointly offered; w/same topic, they count as repeats of one another. May be retaken w/change in topic to 9 cr max.

**Last Taught:** Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 394 Theories of Digital Culture:**

3 cr. Undergraduate/Graduate.

An examination of theories of digital and new media in relation to cinema, television, literature, and other arts.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 290(P) or ENGLISH 291(P) or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max. ENGLISH 394 and FILMSTD 394 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 394G Theories of Digital Culture:**

3 cr. Undergraduate/Graduate.

An examination of theories of digital and new media in relation to cinema, television, literature, and other arts.

**Prerequisites:** junior standing, satisfaction of GER English Composition competency requirement, and ENGLISH 290(P) or ENGLISH 291(P) or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max. ENGLISH 394 and FILMSTD 394 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 395 Feminist Media Criticism and Theory:**

3 cr. Undergraduate.

Theories of representation, spectatorship, and analyses of gender and identity in relation to film, television, and/or digital media.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 395 and FILMSTD 395 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 412 Global Cinema and Media:**

3 cr. Undergraduate/Graduate.

Study of cinema and media in the context of globalization; cinema and media's changing impact beyond national borders.

**Prerequisites:** junior standing or ENGLISH 290(P); and satisfaction of GER English Composition competency requirement.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 412 and FILMSTD 412 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 412G Global Cinema and Media:**

3 cr. Undergraduate/Graduate.

Study of cinema and media in the context of globalization; cinema and media's changing impact beyond national borders.

**Prerequisites:** junior standing or ENGLISH 290(P); and satisfaction of GER English Composition competency requirement.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 412 and FILMSTD 412 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 489 Internship in Film Studies, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of film studies in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in FilmStd; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for 40 hrs work. Retakable to 6 cr max.

**Last Taught:** Spring 2022, Spring 2020, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before coursework levels, content, and credits are determined and/or in specially-prepared program coursework.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Spring 2023, Fall 2022, Spring 2013, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specific enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 669 Screening Sexuality:**

3 cr. Undergraduate/Graduate.

Relationship between discourses of sexuality and media artifacts/texts. Historical/theoretical approaches to apprehend construction and representation of sexuality/sexual identities in media.

**Prerequisites:** junior standing.

**Course Rules:** Retakable with change in topic to 9 cr max. Counts as a repeat of ENGLISH 312 with the same topic. ENGLISH 669 and FILMSTD 669 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2023, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 669G Screening Sexuality:**

3 cr. Undergraduate/Graduate.

Relationship between discourses of sexuality and media artifacts/texts. Historical/theoretical approaches to apprehend construction and representation of sexuality/sexual identities in media.

**Prerequisites:** junior standing.

**Course Rules:** Retakable with change in topic to 9 cr max. Counts as a repeat of ENGLISH 312 with the same topic. ENGLISH 669 and FILMSTD 669 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2023, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 690 Seminar in Contemporary Cinema and Media:**

3 cr. Undergraduate.

Contemporary theories and criticism of cinema, TV and the Internet since 1960. Approaches considered include semiotics, structuralism, Marxism, feminism, psychoanalysis, cultural studies, queer theory.

**Prerequisites:** senior standing and ENGLISH 390(P) or ENGLISH 391(P).

**Course Rules:** Retakable with change in topic to 6 cr max. ENGLISH 690 and FILMSTD 690 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 699 Independent Work**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a Film Studies faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Film Studies dir or asst dir.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable with change in topic.

**Last Taught:** Fall 2021, Fall 2018, Fall 2017, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILMSTD 700 Teaching Film Studies:**

3 cr. Graduate.

Theory of and approaches to teaching film studies on the college level.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2021, Fall 2014, Spring 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Film, Video, Animation and New Genres (FILM)

**FILM 107 Digital Filmmaking for Non-Majors**

3 cr. Undergraduate.

Fundamentals of digital filmmaking production, including pre-production, cinematography, and editing.

**Prerequisites:** none.

**Course Rules:** Not open to Film Majors.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 108 16mm Filmmaking for Non-Majors**

3 cr. Undergraduate.

Fundamentals of motion-picture image production, including lighting, exposure, composition, and editing.

**Prerequisites:** none.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 110 Foundation Topics:**

3 cr. Undergraduate.

Introduction to the art of cinema through screenings, critical viewing, production projects and writing assignments arranged under a chosen theme.

**Prerequisites:** open to Film BFA, Film Minor or Animation BA students.

**Course Rules:** May be repeated with change in topic to a max of 6 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 114 Film and Experience: The Filmmaker and the Viewer**

3 cr. Undergraduate.

Consideration of film as an experience—aesthetic, physical, psychological, social, and historical—for both the filmmaker and the viewer.

**Prerequisites:** Open to Film BFA and Animation BA majors, Film minors; or cons instr.

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 116 Listening and Recording**

3 cr. Undergraduate.

Development of perceptual and expressive competencies using low-cost tools, fieldwork, and the web in response to historical and contemporary issues facing media artists.

**Prerequisites:** Open to Film BFA and Animation BA majors, Film minors; or cons instr.

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 117 Filmmaking Technologies and Techniques**

3 cr. Undergraduate.

Fundamentals of still & motion picture image making, incl lighting, exposure, composition, digital transfer.

**Prerequisites:** Open to Film BFA and Animation BA majors; Film, Video, Animation and New Genres Minors; or cons instr.

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 118 Sound and Image**

3 cr. Undergraduate.

A time-based media arts production course incorporating preceding core Film courses (Film 114, 116, 117), furthering skills and imagination in the integration of image and sound.

**Prerequisites:** Film 114(P), Film 116(P), 117(P); or cons instr.

**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 150 Multicultural America**

3 cr. Undergraduate.

Cross-cultural study of U.S. ethnic and racial identities through materials drawn from a variety of media arts practices (e.g. film, photography, new media) with attention to African-, Asian-, Hispanic- and Native American experiences.

**Prerequisites:** none.**Course Rules:** Cultures and Communities Prog course. Jointly offered with & counts as repeat of Film 150.**General Education Requirements:** A, CD**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 180 Foundation Production: Fiction**

6 cr. Undergraduate.

A time-based production course that builds on the theme of fiction strategies to develop students' skills and creativity in the creation of artful moving image production.

**Prerequisites:** Film BFA, Film Minor, or Animation BA student.**Course Rules:** Students may not enroll in FILM 180 and FILM 181 in the same term, except by permission of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 181 Foundation Production: Nonfiction**

6 cr. Undergraduate.

A time-based production course that builds on the theme of nonfiction strategies to develop students' skills and creativity in the creation of artful moving image production.

**Prerequisites:** Film BFA, Film Minor, or Animation BA student, and FILM 180(P).**Course Rules:** Students may not enroll in FILM 180 and FILM 181 in the same term, except by permission of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 201 Introduction to Experimental Media Arts**

3 cr. Undergraduate.

Survey of independent media art production in film, video, photography and emerging media from the artist's point of view. Lectures, screenings, and workshops exploring ideas and techniques relevant to the making of personal statements.

**Prerequisites:** Open to Film BFA and Animation BA majors, Film, Video, Animation and New Genres Minors; or cons instr.**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 203 Media Workshop:**

3 cr. Undergraduate.

Lab tutorial consisting of intermedia exercises and class projects. Specific credits announced in Schedule of Classes whenever course is offered.

**Prerequisites:** none.**Course Rules:** May be retaken w/chg in content to 9 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 210 Concepts of Production in the Media Arts**

3 cr. Undergraduate.

Introduction to the basic elements of cinema and related media in an inter-arts context through the development of critical and practical skills.

**Prerequisites:** none.**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 220 16mm Filmmaking**

3 cr. Undergraduate.

Post-foundation studio in 16mm film production.

**Prerequisites:** FILM 180(P), FILM 181(P), and 6 credits of FILM 110(P); and film or animation major; or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 221 Basic Elements of Filmmaking II**

6 cr. Undergraduate.

Theory and practice of 16mm non-sync sound techniques. Emphasis on project development, cinematography, editing, sound recording, audio transfers and mixing.

**Prerequisites:** grade B or above in Film 220; or cons instr.**Last Taught:** Spring 2007, Fall 2006, Spring 2006, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 222 Digital Filmmaking**

3 cr. Undergraduate.

Post-foundation studio in digital filmmaking and editing techniques.

**Prerequisites:** Animation or Film major and completion of 6 cr FILM 110(P), FILM 180(P), and FILM 181(P); or Film minor and completion of 6 cr FILM 110(P) and FILM 180(P) or FILM 181(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 231 Writing for Film**

3 cr. Undergraduate.

A practice-driven course on developing skills for conceptualizing and writing for short-form cinema.

**Prerequisites:** FILM 180(P), FILM 181(P), and 6 credits of FILM 110(P); and film or animation major; or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 232 Animation I**

3 cr. Undergraduate.

Introduction to single-frame cinematic principles and techniques including drawing, collage, and kinetic analysis for short animated film projects.

**Prerequisites:** FILM 180(P), FILM 181(P), and 6 credits of FILM 110(P); and film or animation major; or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FILM 234 Introduction to the Screenplay**

3 cr. Undergraduate.

Approaches to screenwriting from both artistic and professional points of view from the cultivation of an idea to the realization of a scenario.

**Prerequisites:** FILM 180(P), FILM 181(P), and 6 credits of FILM 110(P); and film or animation major; or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**FILM 250 Internship/Professional Practice**

3 cr. Undergraduate.

This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series.

**Prerequisites:** consent of instructor.

**Course Rules:** May be retaken to max of 6 cr.

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 251 Theory/Practice Workshop:**

3-4 cr. Undergraduate.

Development of techniques for projects in the theory and practice of media arts.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in content to 9 cr max.

**Last Taught:** Fall 2009, Fall 2008, Summer 2005, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 255 Introduction to Digital Arts**

3 cr. Undergraduate.

Post-foundation studio in digital art practices.

**Prerequisites:** FILM 180(P), FILM 181(P), and 6 credits of FILM 110(P); and film or animation major; or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 297 Study Abroad:**

1-12 cr. Undergraduate.

Production and special problems designed to provide relevant course work for a study abroad program in the media arts.

**Prerequisites:** acceptance in Study Abroad Prog.

**Course Rules:** May be retaken with change in topic to max of 12 cr.

**Last Taught:** Fall 2023, Spring 2020, Fall 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 299 Independent Study**

1-6 cr. Undergraduate.

Individual program of supervised study in media arts theory & practice.

**Prerequisites:** cons instr.

**Course Rules:** May be retaken for cr.

**Last Taught:** Summer 2018, Fall 2016, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 301 Film Art for Non-Majors**

3 cr. Undergraduate.

Provides non-Film majors with a technical and historical context for the study of film as an art form while examining the psychological, emotional, and social aspects of the cinematic experience.

**Prerequisites:** not open to film majors.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 303 Current Topics in Media Arts Production**

3 cr. Undergraduate.

Lectures, screening, discussions, and workshops in media arts production from the artist's point of view. Development of ideas/proposals for possible production in subsequent film department courses.

**Prerequisites:** FILM 180(P), FILM 181(P), and 6 credits of FILM 110(P); and film or animation major; or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 305 Digital Cinema and the Computer**

3 cr. Undergraduate.

Relation of digital cinema to the cultural, philosophical, and technical implications of computing technology.

**Prerequisites:** none.

**Course Rules:** Satisfies GER-Art and Oral & Writ Commun (OWC) Part B requirements.

**General Education Requirements:** A, OWCB

**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 314 Topics in Conceptual Studies:**

3 cr. Undergraduate.

Consideration of issues in critical studies including ethnographic film, found-footage filmmaking, experimental documentary or surrealist film.

**Prerequisites:** Film 114(214)(P) or 210(P); or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Summer 2011, Fall 2010, Summer 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 316 Filmmaker as Theorist/Practitioner:**

3 cr. Undergraduate.

Examines filmmakers particularly engaged in theory/practice investigations of film form including Chantal Ackerman, Jean-Luc Godard, Sergei Eisenstein, Laura Mulvey & Trinh T. Minh-ha.

**Prerequisites:** Film 114(214)(P) or 210(P); or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Summer 2008, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 318 Film and the Visual and Performing Arts:**

3 cr. Undergraduate.

Consideration of film's relationship to a specific art form, its formal similarities and historical intersections including film and painting, film and dance, and film and music.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2023, Spring 2019, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 319 Theory/Practice Seminar:**

3 cr. Undergraduate.

Formal investigation of cinema in national & international contexts. Critical writing and creative production assignments will foreground conventions & their transformations in film history.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 320 The Art of the Short Film**

3 cr. Undergraduate.

A collection of contemporary short films in order to study their structure and value. Students will view short films, read scripts, interview directors and design creative projects.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 319 with similar topic.

**Last Taught:** Spring 2022, Fall 2010, Fall 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 323 Film as a Modernist Art Form**

3 cr. Undergraduate.

Examines the arts and culture between 1850 and 1950 wherein we'll take into consideration the concerns of Modernism as an influence on the conventions of film art.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Contextual elective.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 324 Genre and the Horror Film**

3 cr. Undergraduate.

Explores the historical emergence and stylistic/thematic development of the horror film while engaging with its aesthetic content through creative projects and written exercises.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 319 with similar topic. Contextual elective.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 325 Indie Cinema**

3 cr. Undergraduate.

Explores various facets of independent filmmaking such as aesthetics, narrative structure, means of production and distribution, and its relationship to the mainstream Hollywood industry.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 319 with a similar topic. Contextual elective.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 326 Philosophy and Film**

3 cr. Undergraduate.

Formal investigation of what comprises a film genre across both national and international contexts. Critical writing and production assignments will foreground conventions and their transformations in film history.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 319 with similar topic. Contextual elective.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 327 Cartoons, Animation, and the Graphic Novel**

3 cr. Undergraduate.

Examines cartoons, animation, and the graphic novel, and how these forms work the way they do to grab our attention, tell a story, and convey a message.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203 or FILM 341 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 328 Radical Cinema**

3 cr. Undergraduate.

A survey of film topics that include global cinematic art movements and production development and methods of making as a response to social, political, cultural and historical events.

**Prerequisites:** advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as repeat of FILM 319 or FILM 341 with similar topic. Contextual elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 329 Sociological Cinema**

3 cr. Undergraduate.

Examines narrative films that offer a social critique.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 319 or FILM 341 with similar topic. Contextual elective.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 330 Structuring Gaps**

3 cr. Undergraduate.

Theory/practice course about our individual processes as makers.

Projects will include such modes as textual accompaniment, jokes, irony, direct address, adaptation, and karaoke.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 341 with similar topic. Contextual elective.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 331 The Animated Short**

3 cr. Undergraduate.

Examines the ways that drawn and animated images have explored aspects of society, culture, and even ourselves, and just what it is about them that ignite our imaginations.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203 or FILM 341 with similar topic.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 332 Miyazaki Shorts and Features**

3 cr. Undergraduate.

Examines Hayao Miyazaki's career as an animation director.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203 or FILM 341 with similar topic.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 336 Visual Effects and Illusion in Cinema**

3 cr. Undergraduate.

Focuses on the historical, aesthetic, and technical development of visual effects in film and other media.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 319 with similar topic. Contextual elective.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 341 Theory/Practice Seminar**

3 cr. Undergraduate.

Theoretical/practical approaches to film and video production.

**Prerequisites:** advanced to Film BFA major milestone, or consent of instructor.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** Fall 2021, Summer 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 342 Milwaukee Underground Film Festival**

3 cr. Undergraduate.

Designed to teach students the ins and outs of running a film festival all while actually organizing and running the Milwaukee Underground Film Festival (film selection, tech, promotion, etc).

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203, FILM 380, FILM 420, or FILM 460 with similar topic. Professional practice elective.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 343 The Business of Animation**

3 cr. Undergraduate.

Focuses on knowledge and skills that will help students get their career off to a strong start, including how to create a good demo reel and resume.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 203 or FILM 341 with similar topic. Professional practice elective.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 344 The Producer's Role**

3 cr. Undergraduate.

Comprehensive understanding of the many business and creative roles and responsibilities of a producer in the collaborative worlds of independent, Hollywood, short, and documentary filmmaking.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203 or FILM 341 with similar topic. Professional practice elective.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 345 The Screenwriting Business**

3 cr. Undergraduate.

Comprehensive understanding of the writer's role in both the Hollywood studio system and independent film world, including film industry standards for premise, structure, character and story.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 203 or 341 with similar topic. Professional practice elective.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 346 Documentary Projects: doc/UWM**

3 cr. Undergraduate.

Provides students a firsthand experience of professional documentary and post production for a real-world client from Milwaukee. Students will research, produce, write, direct, shoot and edit projects.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 380, FILM 420, and FILM 460 with similar topic.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 347 Introduction to 3D Animation**

3 cr. Undergraduate.

Intended as an intensive introduction for students with no prior 3D experience. Topics include polygonal modeling tools, texturing, principles of 3D animation, (very) basic rigging, camera, lighting and rendering.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 380 and FILM 420 with similar topic.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 348 Mechanics of Animation**

3 cr. Undergraduate.

The primary goal of this course is to help students develop a deeper understanding of the mechanics of animation and gain the skills necessary to create engaging, dynamic movement.

**Prerequisites:** FILM 222(P), FILM 232(P), and completion of one of the following: FILM 220(P), FILM 231(P) or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 203, FILM 380, FILM 420, or FILM 460 with similar topic. Portfolio elective.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 360 Portfolio Topics:**

3 cr. Undergraduate.

Students will produce self-authored creative work in relation to a course topic.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Repeatable to 9 cr max. Counts as a repeat of FILM 380, FILM 420, or FILM 460 with similar topic. Portfolio elective.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 361 Animation Studio**

3 cr. Undergraduate.

Advanced animation course that offers the serious animator a chance to hone their craft and add to their portfolio. Each student will be required to create/finish a unique piece.

**Prerequisites:** FILM 222(P) and FILM 232(P) or consent of instructor.

**Course Rules:** Counts as repeat of FILM 203, FILM 380, FILM 420, or FILM 460 with similar topic. Portfolio elective.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 362 Documenting Community**

3 cr. Undergraduate.

Introduction to specialized production methods for developing and producing short documentary portraits of people, organizations or events within urban Milwaukee.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 203 or FILM 380 with similar topic. Portfolio elective.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 363 Mumblecore: Fundamental Cinema**

3 cr. Undergraduate.

Examines conventions of realism and the use of available means in DIY Filmmaking. Students will learn the strategies behind this kind of cinema in order to create their own films.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 203 or FILM 380 with a similar topic. Portfolio elective.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 364 Music Video Production**

3 cr. Undergraduate.

Introduction to the art and practice of music video production. Students will study contemporary approaches to music video production, from pitching to promotion and will create their own video.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 203 or FILM 380 with similar topic. Portfolio elective.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 365 Sex and Gender in Film and Video**

3 cr. Undergraduate.

Introduces theoretical concepts of gender in moving image and to consider them from the perspective of an artist/maker/filmmaker, through screenings, readings, and self-authored creative projects.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 203 or FILM 380 with similar topic. Portfolio elective.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 366 Experimental Sound Techniques**

3 cr. Undergraduate.

Provides students with an avenue in which to explore the creative and expressive use of sounds and tools for audio production, performance, and recording, including the space between image and sound.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420 with similar topic. Portfolio elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 367 Personal Cinema**

3 cr. Undergraduate.

Students will study and make films/videos in which the director is a distinct presence, including essay film, personal documentary, diaries and travelogues.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420 or FILM 460 with similar topic. Portfolio elective.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 368 Dreams: Yours, Mine, Ours**

3 cr. Undergraduate.

Students will creatively expand upon the content, images, symbols, structures, and relationships contained within dreams, towards the completion of a short video/film work.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 203, FILM 380, FILM 420, or FILM 460 with a similar topic. Portfolio elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 379 Storyboarding**

3 cr. Undergraduate.

Students will work with their own (or someone else's) writing, dialogue, or voice-over to create a full blown storyboard, animatic and final work. Useful for animation and live action.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420 with similar topic. Production elective.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 380 Production Topics:**

3 cr. Undergraduate.

Post-foundation course introducing specialized production skills in film, video, audio or new genres.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 15 cr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 381 Acting for Animation**

3 cr. Undergraduate.

Animation techniques for conveying the proper emotions and situations needed to deliver strong and believable animations.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203 or FILM 380 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 382 Visual Effects**

3 cr. Undergraduate.

Focuses on the use of After Effects (AE) as a powerful digital tool to produce and meaningfully apply visual effects to individual creative projects.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 380 or FILM 420 with similar topic. Production elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 383 Character Design and Animation**

3 cr. Undergraduate.

Students will create characters for animated productions.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of ART 302, FILM 203, or FILM 380 with similar topic. Production elective.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 384 Drawing for Animation**

3 cr. Undergraduate.

For students pursuing a degree in the animation field. Designed to build a solid foundation in drawing with an emphasis in the human figure in motion.

**Prerequisites:** FILM 222(P), FILM 232(P), and completion of one of the following: FILM 220(P), FILM 231(P) or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 380 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 385 Experimental Animation**

3 cr. Undergraduate.

Introduces options for creating animated imagery using various analog and digital techniques from paper cut outs to rotoscoping and paint. Students will create several pieces.

**Prerequisites:** FILM 222(P) and FILM 232(P) or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203, FILM 380, or FILM 420 with similar topic. Production elective.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 386 Interactive Animation**

3 cr. Undergraduate.

Students will explore how to make animations react to something a viewer does. Using Adobe Animate and other tools, students will learn a wide variety of animation techniques and tools.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203 or FILM 380 with similar topic. Production elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **FILM 387 Puppetry**

3 cr. Undergraduate.

Introduces students to the art of puppetry, various forms of puppetry, methods of construction, and performing the puppet, and will culminate in a student-created original short form collaborative puppetry performance.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203, FILM 380, or FILM 420 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **FILM 388 Stop Motion Animation**

3 cr. Undergraduate.

Designed to provide a solid grounding in the principles and practices of stop motion animation and help students animate engaging characters.

**Prerequisites:** FILM 222(P) and FILM 232(P) or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203, FILM 380, or FILM 420 with similar topic. Production elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **FILM 390 Directing**

3 cr. Undergraduate.

Covers various methods of film directing through consideration of cinematic language, storytelling, working with crew and actors, technologies and concepts. Students will work through a project from start to finish.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 380 or FILM 420 with similar topic. Production elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **FILM 391 Cinematography**

3 cr. Undergraduate.

Focuses on the aesthetic design of moving images, across genres and methods of cinematography. In-class demos, labs, readings, and workshops will be undertaken in service of developing a robust aesthetic practice.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as repeat of FILM 380 with a similar topic. Production elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **FILM 392 Documentary Filmmaking**

3 cr. Undergraduate.

Provides students experience in documentary film production with practical projects and provide an understanding of different forms, methods and features of documentary films.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203, FILM 380, FILM 420 with topic of Intro to Documentary Film Production, Intro to Documentary or Documentary. Production elective.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **FILM 393 Sound Design**

3 cr. Undergraduate.

Intermediate-level studio class devoted to exploring the different tools, strategies, and creative potential of sound recording and sound design for cinema.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 380 with similar topic. Production elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **FILM 394 Film Score Studio**

3 cr. Undergraduate.

Explores the nature of the collaboration between the filmmaker and the composer. The main goal of this class is to create an entirely new work with original music.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203 or FILM 380 with similar topic. Production elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **FILM 395 Preproduction**

3 cr. Undergraduate.

Focuses on the preproduction process of documentary and narrative film; examines the main stages of preproduction and presents different preparation methods of filmmaking.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203 or FILM 380 with similar topic. Production elective.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 396 Video Installation**

3 cr. Undergraduate.

Offers students an avenue to working outside of the traditional cinema space. Through group and individual production exercises and with various technologies, students will construct their own project installation spaces.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 380 with similar topic. Production elective.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 397 Drawing for Filmmakers**

3 cr. Undergraduate.

Students will tap into and exercise one of the basic human senses, and one that is taken as primary in cinema: sight.

**Prerequisites:** advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 203 with similar topic. Productive elective.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 398 Editing and Post-Production**

3 cr. Undergraduate.

Dedicated to honing your individual editing practice. Students will be introduced to both conventional and alternative editing strategies that can be applied towards narrative, non-fiction and experimental cinema.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420 with similar topic. Production elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 399 Advanced Independent Study**

1-6 cr. Undergraduate.

Individual program of supervised study for the advanced student of film and/or video.

**Prerequisites:** FILM 222(P) and completion of one of the following: FILM 220(P), FILM 231(P), FILM 232(P), or FILM 255(P); or consent of instructor.

**Course Rules:** Repeatable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 410 Junior Project**

6 cr. Undergraduate.

Individual production projects in film or video facilitated by critiques and technical demonstrations tailored to student needs.

**Prerequisites:** admis to upper level course per portfolio review or cons instr. In case of over-enrollment, admission based on grade point average in major.

**Last Taught:** Spring 2007, Fall 2006, Spring 2006, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 419 Advanced Theory/Practice Seminar.**

3 cr. Undergraduate.

Advanced cinema study with emphasis on history, aesthetics, and creative production.

**Prerequisites:** Film or Animation milestone; or consent of instructor.

**Course Rules:** Repeatable to 9 cr max. Counts as repeat of FILM 319, FILM 341, and FILM 434 with similar topic.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 420 Intermediate Media Arts Module:**

3 cr. Undergraduate/Graduate.

Intermediate level course in specialized production skills in film, video, audio or new genres.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** May be retaken with change in topic to 12 cr max.

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 420G Intermediate Media Arts Module:**

3 cr. Undergraduate/Graduate.

Intermediate level course in specialized production skills in film, video, audio or new genres.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** May be retaken with change in topic to 12 cr max.

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 434 Film Aesthetics:**

3 cr. Undergraduate.

Consideration of a particular aesthetic aspect of film including performance, sound, decor, frame/sequence, color, narrative & narration, temporality.

**Prerequisites:** jr st., Film 210(P); or const instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2022, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 442 Media Internship**

1-3 cr. Undergraduate.

Supports internships in a professional context related to their field of study.

**Prerequisites:** Film or Animation milestone.

**Course Rules:** Repeatable to 6 cr max. Counts as repeat of FILM 450. Professional practice.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 446 Advanced Documentary Projects: doc/UWM**

3 cr. Undergraduate.

Professional documentary filmmaking for real-world clients. Advanced students will work on a doc/UWM project and collaborate with doc/UWM staff and other professionals.

**Prerequisites:** junior standing and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 460 with similar topic.

Professional practices elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 450 Advanced Internship/Professional Practice**

1-6 cr. Undergraduate/Graduate.

This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series.

**Prerequisites:** admitted to upper-level Film classes per portfolio review, consent of instructor.

**Course Rules:** May be retaken to max of 6 cr.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 450G Advanced Internship/Professional Practice**

1-6 cr. Undergraduate/Graduate.

This project-oriented course supports student engagement in professional internships, production of a media project for a non-profit organization or curating a media arts event/series.

**Prerequisites:** admitted to upper-level Film classes per portfolio review, consent of instructor.

**Course Rules:** May be retaken to max of 6 cr.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 455 Integrated Film/Video Exploration**

6 cr. Undergraduate/Graduate.

A study of the relationship between film/video production and film/video analysis, team taught by an artist and a critic.

**Prerequisites:** jr st. Film majors: portfolio review and/or cons instr; non-film majors: cons instr.

**Course Rules:** Jointly offered with ArtHist/English/JMC 310.

**Last Taught:** Spring 2010, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 455G Integrated Film/Video Exploration**

6 cr. Undergraduate/Graduate.

A study of the relationship between film/video production and film/video analysis, team taught by an artist and a critic.

**Prerequisites:** jr st. Film majors: portfolio review and/or cons instr; non-film majors: cons instr.

**Course Rules:** Jointly offered with ArtHist/English/JMC 310.

**Last Taught:** Spring 2010, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 460 Advanced Portfolio Topics:**

3 cr. Undergraduate/Graduate.

Advanced level portfolio elective wherein students produce self-authored creative work in relation to a course topic.

**Prerequisites:** junior standing or greater and Film or Animation milestone; or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 460G Advanced Portfolio Topics:**

3 cr. Undergraduate/Graduate.

Advanced level portfolio elective wherein students produce self-authored creative work in relation to a course topic.

**Prerequisites:** junior standing or greater and Film or Animation milestone; or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 461 Landscape Cinema**

3 cr. Undergraduate.

Time-based media production course that offers space for the investigation of landscape as a conceptual framework. Through research and creative project, students will engage with landscape's relevance to contemporary art.

**Prerequisites:** junior standing and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420 or FILM 460 with similar topic.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 462 Humor and Filmmaking**

3 cr. Undergraduate.

Investigates how comedy works, what makes it original and how to direct and perform humor as it's related to filmmaking through a series of workshops and projects.

**Prerequisites:** junior standing and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420 or FILM 460 with similar topic. Portfolio elective.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 463 Experimental Documentary**

3 cr. Undergraduate.

Exploration of experimental documentary through readings, screenings, and self-authored time-based creative work.

**Prerequisites:** junior standing and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420 or FILM 460 with similar topic. Portfolio elective.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 464 Observational Documentary**

3 cr. Undergraduate.

Introduction to the ideas, methods, and works that form the sub-genre observational documentary.

**Prerequisites:** junior standing and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as repeat of FILM 420 and FILM 460 with similar topic. Portfolio elective.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 465 Experimental Narrative**

3 cr. Undergraduate.

Storytelling that pushes against the boundaries of the traditional three, act narrative cinema. Coursework will combine screenings, readings, class discussions, writing and independent video projects.

**Prerequisites:** junior standing and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 380 or FILM 420 with similar topic. Portfolio elective.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**FILM 466 Appropriated Media**

3 cr. Undergraduate.

Thematic exploration of the use of appropriated media in moving image art. Students use appropriated media as our primary source material towards the production of two video projects.

**Prerequisites:** junior standing and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 380, FILM 420, or FILM 460 with similar topic. Portfolio elective.

**Last Taught:** Fall 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 470 Advanced Media Arts Workshop:**

1-6 cr. Undergraduate/Graduate.

Individual student projects exploring portable and studio media arts production techniques. Students will submit production proposals for faculty approval.

**Prerequisites:** Film 389(P); or grad st; or cons instr.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 1999, Fall 1991.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 470G Advanced Media Arts Workshop:**

1-6 cr. Undergraduate/Graduate.

Individual student projects exploring portable and studio media arts production techniques. Students will submit production proposals for faculty approval.

**Prerequisites:** Film 389(P); or grad st; or cons instr.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 1999, Fall 1991.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 480 Advanced Production Topics:**

3 cr. Undergraduate.

Advanced production course introducing specialized production skills in film, video, audio or new genres.

**Prerequisites:** junior or senior standing and Animation or Film milestone; or consent of instructor.

**Course Rules:** Repeatable with change in topic to 15 cr max. Counts as a repeat of FILM 380, FILM 420, or FILM 460 with similar topic. Production elective.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 481 Advanced 16MM Film Production**

3 cr. Undergraduate.

Designed for those who want to seriously engage with the creative potential of analog film through an immersive, hands-on workshop.

**Prerequisites:** junior standing and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 460 with similar topic.

Production elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 482 Advanced Cinematography**

3 cr. Undergraduate.

Designed to build upon the aesthetics lectures and technical skills from FILM 391 through lighting set-ups, location shoots, student-designed set-ups, group work and solo projects.

**Prerequisites:** junior standing, FILM 391, and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Production elective.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 483 Post-Production Sound**

3 cr. Undergraduate.

Advanced-level studio focusing on the development of soundtracks for film and the advancement of students' competencies in digital audio and sound design.

**Prerequisites:** junior standing and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420 with similar topic.

Production elective.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 484 Field Recording and Digital Audio**

3 cr. Undergraduate.

Advanced-level course focused on techniques for recording sound 'in the field' as well as the digital processing, editing, and composition of field recordings.

**Prerequisites:** junior standing and advanced to the Animation or Film major or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420 with similar topic.

Production elective.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 486 Advanced Animation**

3 cr. Undergraduate.

Introduces students to the concepts and methods involved in creating an animated film (digital and material) where the soundtrack gives the film its timing and direction.

**Prerequisites:** junior standing, FILM 232(P), and advanced to the Animation or Film major; or consent of instructor.

**Course Rules:** Production elective.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 497 Study Abroad:**

1-12 cr. Undergraduate.

Production and special problems designed to provide relevant course work for a study abroad program in the media arts.

**Prerequisites:** admis to upper-level Film classes per portfolio review, or cons instr.

**Course Rules:** May be retaken w/chg in topic to max of 12 cr.

**Last Taught:** Spring 2020, Fall 2017, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 498 Advanced Editing**

3 cr. Undergraduate.

Dedicated to refining your existing editing practice through the introduction of new techniques and advanced tools. Designed for advanced students who wish to expand their basic toolset.

**Prerequisites:** junior standing, FILM 398, and advanced to Film major; or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 480 with similar topic. Production elective.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 509 Senior Project I**

3 cr. Undergraduate.

Pre-production/production of individual media arts projects facilitated by critiques and work sessions.

**Prerequisites:** completion of 9+ credits Advanced Production, which includes FILM 347, 370-398, 420, or 480-499; and completion of 3+ credits of Advanced Portfolio, which includes FILM 360-369, 399, or 460-469; or completion of 6+ credits Advanced Production and completion of 6+ credits of Advanced Portfolio.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 510 Senior Project II**

6 cr. Undergraduate.

Continuation of capstone project started in Film 509. Emphasis on production and post-production, facilitated by critiques, work sessions and preparations for a public presentation.

**Prerequisites:** Successful completion of Film 509(P); or cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 512 Senior Project in Conceptual Studies**

6 cr. Undergraduate.

Capstone seminar investigates and interrogates relationship between filmmaking, theory and history. Archival research and critical analysis will produce final multimedia project.

**Prerequisites:** Film 320(P), 455(P).

**Last Taught:** Spring 2010, Spring 2009, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 700 Professional Practice: Production**

3 cr. Graduate.

Professional production internship with area film-related enterprise to develop specialized technical skills or practical experience in film exhibition.

**Prerequisites:** grad st & cons advising faculty member.

**Course Rules:** May be repeated to max of 9 cr.

**Last Taught:** Fall 2017, Spring 2017, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 710 Graduate Film Studio/Seminar I**

3 cr. Graduate.

Each student to pursue a film production project to completion. Lectures and readings in seminar format to address issues facing independent film production and distribution.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 712 Graduate Film Studio/Seminar II**

3 cr. Graduate.

Faculty advised film production studio course. Instruction in advanced production skills and directed reading relevant to the nature of proposed film projects.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 714 Graduate Film Studio/Seminar III**

3 cr. Graduate.

Faculty advised film production studio course to introduce and familiarize students with specific crew member responsibilities of collaborative filmmaking.

**Prerequisites:** second year Cinematic Arts graduate student.

**Course Rules:** Retakeable to 6 cr max.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 720 Graduate Media Arts Workshop I**

1-6 cr. Graduate.

Conceptualization and production of student-initiated media arts projects.

**Prerequisites:** graduate standing in film.

**Course Rules:** Retakeable to 14 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 722 Graduate Media Arts Workshop II**

1-6 cr. Graduate.

Conceptualization and production of student-initiated media arts projects. For 2nd-year MFA students.

**Prerequisites:** graduate standing and FILM 720(P) or consent of instructor.

**Course Rules:** Retakable to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 730 Advanced Research in Film I**

3 cr. Graduate.

Faculty advised, pre-production research leading to the completion of a shooting script and production schedule for the thesis film project.

**Prerequisites:** grad st; two of the following: Film 710, 712 & 714.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 732 Advanced Research in Film II**

3-6 cr. Graduate.

Independent study with selected faculty member adviser for the production and post-production phase of the thesis film project.

**Prerequisites:** grad st; Film 710(P), 712(P), 714(P), 730(P).

**Course Rules:** May be retaken to max of 6 cr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 760 Film/Video Module: Post-Production Sound**

3 cr. Graduate.

Course in sound post-production for the media arts.

**Prerequisites:** grad st; cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 761 Landscape Cinema**

3 cr. Graduate.

Landscape Cinema is a time-based media production course that offers space for the investigation of landscape as a conceptual framework. Through research and creative project, students will engage with landscape's relevance to contemporary art.

**Prerequisites:** Film MFA or consent of instructor.

**Course Rules:** Counts as repeat of FILM 420G with similar topic.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 763 Experimental Documentary**

3 cr. Graduate.

An exploration of experimental documentary through readings, screenings, and self-authored time-based creative work.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as repeat of FILM 420G with similar topic. Portfolio elective.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 764 Observational Documentary**

3 cr. Graduate.

Provides a basic introduction to the ideas, methods and works that form the sub-genre of documentary called observational documentary.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as repeat of FILM 420G with similar topic. Portfolio elective.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 781 Advanced 16MM Film Production**

3 cr. Graduate.

Advanced 16mm film production course designed for students who want to seriously engage with the creative potential of analog film through immersive workshops.

**Prerequisites:** graduate student in Cinematic Arts MFA or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420G with similar topic.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 782 Visual Effects**

3 cr. Graduate.

Focuses on the use of After Effects as a powerful digital tool to produce and meaningfully apply visual effects to individual creative projects.

**Prerequisites:** graduate in Cinematic Arts MFA or consent of instructor.

**Course Rules:** Counts as a repeat of FILM 420G with similar topic.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 799 Independent Graduate Study:**

1-6 cr. Graduate.

Variable content. Supervised independent study, production and non-production for the grad student in film/video.

**Prerequisites:** grad st; cons instr.

**Course Rules:** May be repeated to max of 9 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FILM 900 Graduate Studio**

3 cr. Graduate.

Ongoing critique of individual studio research in students' chosen medium(s). Emphasis on developing and maintaining interdisciplinary dialogue. Studio research, individual and group critiques required.

**Prerequisites:** first year Cinematic Arts graduate student.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Fitness, Wellness and Sport (FITWELL)

**FITWELL 110 Physical Conditioning**

1 cr. Undergraduate.

Theory & practice of physical conditioning.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 112 Yoga I**

1 cr. Undergraduate.

Theory and practice of yoga.

**Prerequisites:** none. It is highly recommended that students bring a mat and a blanket or towel for their comfort. These items are not provided by the department.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 113 Yoga II**

1 cr. Undergraduate.

Theory and practice of yoga II.

**Prerequisites:** SPT&REC 112(P). It is highly recommended that students bring a mat and a blanket or towel for their comfort. These items are not provided by the department.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 114 Weight Training I**

1 cr. Undergraduate.

Theory and practice of weight training.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 115 Weight Training II**

1 cr. Undergraduate.

Theory and practice of weight training II.

**Prerequisites:** SPT&REC 114(P).

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 120 Swim I**

1 cr. Undergraduate.

Theory and practice of swim I.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 121 Swim II**

1 cr. Undergraduate.

Theory and practice of swim II.

**Prerequisites:** Spt&Rec 120(P) or swim one length of pool (25 yards) any stroke.

**Last Taught:** Fall 2023, Spring 2022, Spring 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 126 Beginning Scuba**

1 cr. Undergraduate.

Introduction to scuba diving through academic and confined water training. Learn basic skills such as mask and regulator clearing, emergency air management, and dive planning. This course follows the PADI Open Water Diver curriculum.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 130 Ballroom Dance I**

1 cr. Undergraduate.

Theory and practice of ballroom dancing.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 161 Bowling I**

1 cr. Undergraduate.

Theory and practice of bowling

**Prerequisites:** none.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 162 Bowling II**

1 cr. Undergraduate.

Theory and practice of bowling.

**Prerequisites:** Spt&Rec 161(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 166 Golf**

1 cr. Undergraduate.

Theory and practice of golf.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 172 Tae Kwon-Do**

1 cr. Undergraduate.

Theory and practice of tae kwon-do.

**Prerequisites:** none.

**Last Taught:** Spring 2020, Fall 2019, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 173 Tae Kwon-Do II**

1 cr. Undergraduate.

Theory and practice of tae kwon-do.

**Prerequisites:** SPT&REC 172(P) or equivalent.

**Last Taught:** Spring 2020, Fall 2019, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 174 Self-Defense**

1 cr. Undergraduate.

Theory and practice of self-defense.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 176 Basketball**

1 cr. Undergraduate.

Theory and practice of basketball.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 179 Handball**

1 cr. Undergraduate.

Theory and practice of handball.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 180 Racquetball I**

1 cr. Undergraduate.

Theory and practice of racquetball.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 181 Racquetball II**

1 cr. Undergraduate.

Theory and practice of racquetball.

**Prerequisites:** SPT&REC 180(P).

**Last Taught:** Spring 2017, Spring 2016, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 182 Tennis I**

1 cr. Undergraduate.

Theory and practice of tennis.

**Prerequisites:** none.

**Last Taught:** Spring 2022, Fall 2021, Summer 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 183 Tennis II**

1 cr. Undergraduate.

Theory and practice of tennis.

**Prerequisites:** EPT&REC 182(P).

**Last Taught:** Spring 2013, Spring 2012, Spring 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 185 Karate I**

1 cr. Undergraduate.

Theory and practice of karate.

**Prerequisites:** none.

**Last Taught:** Fall 2021, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 186 Karate II**

1 cr. Undergraduate.

Theory and practice of karate.

**Prerequisites:** SPT&REC 170(P) or SPT&REC 185(P).

**Last Taught:** Spring 2020, Spring 2018, Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 187 Karate III**

1 cr. Undergraduate.

Theory and practice of karate.

**Prerequisites:** SPT&REC 171(P) or SPT&REC 186(P) or equivalent.

**Last Taught:** Spring 2020, Spring 2018, Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 191 Volleyball**

1 cr. Undergraduate.

Theory and practice of volleyball.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 192 Volleyball II**

1 cr. Undergraduate.

Theory and practice of volleyball.

**Prerequisites:** Spt&Rec 178(P) or 191(P) or equiv.

**Last Taught:** Fall 2023, Fall 2021, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 201 Field Experience in Kinesiology**

1 cr. Undergraduate.

Lecture/discussion/site visitation exploring the broad field of Kinesiology and typical service delivery systems, e.g., campus, community, commercial, industrial and clinical.

**Prerequisites:** KIN 202(C).

**Course Rules:** Counts as repeat of KIN 210.

**Last Taught:** Spring 2011, Fall 2010, Spring 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 289 General Recreation Activities:**

1-2 cr. Undergraduate.

Topics of current interest focusing on life-long participation and skill development in general recreation and leisure activities. Credits for specific topics announced in Schedule of Classes.

**Prerequisites:** none, except as required for specific topic.

**Course Rules:** Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 290 Ad Hoc Course in Sport and Recreation:**

1-3 cr. Undergraduate.

Topics of current interest in health, leisure, and recreation. May be retaken w/chg in topic. Special course fees may be required depending on course. Prereq: specified in semester Schedule whenever required for a topic

**Last Taught:** Spring 2023, Spring 2016, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 291 Recreational Arts and Crafts:**

1-2 cr. Undergraduate.

Topics of current interest focusing on life-long participation and skill development in the area of Arts and Crafts. Credits for specific topics announced in Schedule of Classes.

**Prerequisites:** none, except as required for specific topic.

**Course Rules:** Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 292 Social and Creative Dance:**

1-2 cr. Undergraduate.

Topics of current interest focusing on life-long participation and skill development in the area of Social and Creative Dance. Credits for specific topics announced in Schedule of Classes.

**Prerequisites:** none, except as required for specific topic.

**Course Rules:** Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 293 Martial Arts:**

1-2 cr. Undergraduate.

Topics of current interest focusing on life-long participation and skill development in martial arts. Credits for specific topics announced in Schedule of Classes.

**Prerequisites:** none, except as required for specific topic.

**Course Rules:** Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 294 Wilderness Adventure and Outdoor Activities:**

1-2 cr. Undergraduate.

Topics of current interest focusing on life-long participation and skill development in the areas of Wilderness Adventure and Outdoors Activities. Credits for specific topics announced in Schedule of Classes.

**Prerequisites:** none, except as required for specific topic.

**Course Rules:** Counts as repeat of Spt&Rec 290 with same topic. May be retaken w/chg in topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 295 Organized Sport:**

1-2 cr. Undergraduate.

Topics of current interest focusing on life-long participation and skill development in the area of sport. Credits for specific topics announced in Schedule of Classes.

**Prerequisites:** none, except as required for specific topic.

**Course Rules:** Counts as repeat of FITWELL 290 with same topic. May be retaken with change in topic.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 296 Exercise and Fitness Activities:**

1-2 cr. Undergraduate.

Topics of current interest focusing on life-long participation and skill development in the area of Exercise and Fitness. Credits for specific topics announced in Schedule of Classes.

**Prerequisites:** none, except as required for specific topic.

**Course Rules:** Counts as repeat of FITWELL 290 with same topic. May be retaken w/chg in topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FITWELL 298 Meditation, Relaxation, and Wellness:**

1-2 cr. Undergraduate.

Topics of current interest focusing on life-long participation and skill development in the areas of meditation, relaxation, and wellness. Credits for specific topics announced in Schedule of Classes.

**Prerequisites:** none, except as required for specific topic.

**Course Rules:** Counts as repeat of FITWELL 290 with same topic. May be retaken with change in topic.

**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Food & Beverage Studies (FOODBEV)

**FOODBEV 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced-level independent study work under the supervision of a faculty or academic staff member.

**Prerequisites:** junior standing; 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable to 9 cr max.

**Last Taught:** Fall 2022, Fall 2018, Spring 2018, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## French (FRENCH)

**FRENCH 103 First-Semester French**

4 cr. Undergraduate.

For students who have not studied French previously. Oral practice, grammar, and reading. Language laboratory required.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of French 113. Open only to students with 2 yrs HS French or less or score of 1 on the French placement exam.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 104 Second-Semester French**

4 cr. Undergraduate.

Continuation of French 103. Further drill in the language laboratory.

**Prerequisites:** grade of C or better in French 103(P) or level 2 score on French placement exam or cons instr. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

**Course Rules:** Counts as repeat of French 114.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 110 French for Travelers**

1-2 cr. Undergraduate.

Basic conversational French for travelers. For students with no knowledge of French as well as for those with a basic foundation in the language. Useful vocabulary and cultural information.

**Prerequisites:** none.

**Last Taught:** Fall 2015, Spring 2015, Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 145 Views of France:**

3 cr. Undergraduate.

In-depth study of selected aspects of French civilization as reflected in literature.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2018, Fall 2017, Fall 2009, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 197 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2018, Summer 2016, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 199 Independent Study**

1-4 cr. Undergraduate.

For further information consult department chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Fall 2019, Spring 2003, Summer 1994, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 203 Third-Semester French**

3 cr. Undergraduate.

Review and further study of language and culture with emphasis on the development of reading skills.

**Prerequisites:** grade of C or better in French 104(P) or 114(P) or level 3 score on French placement exam or cons instr. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 204 Fourth-Semester French**

3 cr. Undergraduate.

Continuation of French 203. Review of main grammatical concepts. Readings in modern French and Francophone literature.

**Prerequisites:** grade of C or better in French 203(P) or level 4 score on French placement exam or cons instr; French 213(R). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 210 French Immersion: Intermediate**

1-2 cr. Undergraduate.

Concentrated, structured practice of spoken French; contemporary topics; small-group setting with native speakers, simulates immersion experience. Build vocabulary, improve communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered.

**Prerequisites:** French 203(P) or cons instr.

**Course Rules:** May be retaken to 4 cr max.

**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 277 French Discussion Section:**

1-2 cr. Undergraduate.

Discussion in French, designed to broaden perspectives, improve language skills.

**Prerequisites:** French 204(P) or cons instr.

**Course Rules:** Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). Retakable w/chg in topic to 6 cr max.

**Last Taught:** Spring 2022, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 289 Internship in French**

1-6 cr. Undergraduate.

Application of basic principles of French in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** French 103(P) or 113(P); 2.25 gpa; cons instr.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Fall 2018, Summer 2006, Fall 2004, Summer 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.

**Prerequisites:** acceptance into UROP; prior or conc reg in UROP seminar.

**Course Rules:** May be retaken to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog; conc reg in French 595(C).

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2023, Summer 2022, Spring 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2002, Fall 1999, Fall 1998, Fall 1997.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 303 Conversation and Composition: Intermediate Level**

3 cr. Undergraduate.

Development of ability to understand, read, speak and write French, with emphasis on everyday language and culture.

**Prerequisites:** grade C or better in French 204(P) or level 5 score on French placement exam or cons instr; may be taken conc w/French 204 w/grade B or better in French 203(P). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 324 Contemporary French Language and Culture**

3 cr. Undergraduate.

Introduction to contemporary French culture through the use of authentic materials (video, oral interviews, literary and journalistic writing).

**Prerequisites:** French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 325 Intensive Grammar and Usage**

3 cr. Undergraduate.

Grammatical structures; levels of styles; written accuracy and proficiency.

**Prerequisites:** French 303(215)(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 332 Reading French Texts**

3 cr. Undergraduate.

Rules and concepts involved in reading and understanding poetry and prose. Practice in developing skills by literary analysis.

**Prerequisites:** French 303(P) or cons instr; French 324(R) & 325(R).

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 349 Studies in French Culture:**

2-4 cr. Undergraduate.

A specific aspect of French culture combining class lectures and on-site visits.

**Prerequisites:** French 303(215)(P) or cons instr; acceptance for Study Abroad Prog; conc reg in French 595(C).

**Course Rules:** May not enroll conc in French 449. May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2004, Spring 2003, Spring 2002, Spring 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 357 Literature of the French-Speaking World in Translation:**

3 cr. Undergraduate.

Topic/genre in selected works by major writers from one or more French-speaking regions (France, Belgium, Switzerland, Quebec, the Caribbean, Africa, Southeast Asia, etc.).

**Prerequisites:** jr st or cons instr.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2017, Fall 2016, Fall 2013, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 383 Honors Seminar:**

3 cr. Undergraduate.

Reading and discussion of selected works.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Spring 2017, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 392 Phonetics**

3 cr. Undergraduate.

Theory of French sounds; phonetic transcription; practice in pronunciation in class and in language laboratory.

**Prerequisites:** French 303(215)(P) or cons instr.

**Course Rules:** Required of teaching majors & minors.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 397 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before coursework level, content, and credits are determined and/or in specially-prepared program coursework.

**Prerequisites:** French 203(P); acceptance for Study Abroad Prog; conc reg in French 595(C).

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2023, Summer 2022, Spring 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 410 French Immersion: Advanced**

1-2 cr. Undergraduate/Graduate.

Concentrated, structured practice of spoken French; contemporary topics; small-group setting with native speakers simulates immersion experience. Build vocabulary, improve communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered.

**Prerequisites:** French 324(327)(P) & 325(P), or cons instr.

**Course Rules:** May be retaken to 4 cr max.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 410G French Immersion: Advanced**

1-2 cr. Undergraduate/Graduate.

Concentrated, structured practice of spoken French; contemporary topics; small-group setting with native speakers simulates immersion experience. Build vocabulary, improve communication skills. Weekend, interim, or short-term summer modules. Specific credits announced in Schedule whenever course is offered.

**Prerequisites:** French 324(327)(P) & 325(P), or cons instr.

**Course Rules:** May be retaken to 4 cr max.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 415 Introduction to Translation: French to English**

3 cr. Undergraduate.

Introduction to basic skills necessary to professional translation.

Translation of texts from French into English. Summarizing texts. Sight translation.

**Prerequisites:** junior standing; a grade of B or better in FRENCH 325(P); FRENCH 324(P) or FRENCH 332(P).

**Last Taught:** Fall 2010, Fall 2009, Fall 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 426 Growing Up French**

3 cr. Undergraduate/Graduate.

French civilization from the point of view of the French child, with emphasis on materials familiar to French children and adolescents.

**Prerequisites:** junior standing and two French courses numbered 320 or above; or consent of instructor.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 426G Growing Up French**

3 cr. Undergraduate/Graduate.

French civilization from the point of view of the French child, with emphasis on materials familiar to French children and adolescents.

**Prerequisites:** junior standing and two French courses numbered 320 or above; or consent of instructor.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 427 Advanced Written Expression**

3 cr. Undergraduate/Graduate.

Development of writing proficiency in a variety of genres through close analysis and imitation of good French writing; emphasis on usage, syntax, and authentic French expression.

**Prerequisites:** jr st & French 324(327)(P) & 325(P), or grad st.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 427G Advanced Written Expression**

3 cr. Undergraduate/Graduate.

Development of writing proficiency in a variety of genres through close analysis and imitation of good French writing; emphasis on usage, syntax, and authentic French expression.

**Prerequisites:** jr st & French 324(327)(P) & 325(P), or grad st.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 428 Castles, Cathedrals, and Common People: The Foundations of French Culture**

3 cr. Undergraduate/Graduate.

Study of major aspects of French society and its cultural expressions from the Middle Ages through the Renaissance.

**Prerequisites:** jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**FRENCH 428G Castles, Cathedrals, and Common People: The Foundations of French Culture**

3 cr. Undergraduate/Graduate.

Study of major aspects of French society and its cultural expressions from the Middle Ages through the Renaissance.

**Prerequisites:** jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 429 Royalty, Reason, and Revolution: The Golden Age of French Culture**

3 cr. Undergraduate/Graduate.

Major aspects of French society and its cultural expressions from the Renaissance through the Revolution.

**Prerequisites:** jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 429G Royalty, Reason, and Revolution: The Golden Age of French Culture**

3 cr. Undergraduate/Graduate.

Major aspects of French society and its cultural expressions from the Renaissance through the Revolution.

**Prerequisites:** jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 430 Reaction and Innovation: French Culture of the 19th and 20th Centuries**

3 cr. Undergraduate/Graduate.

French politics, society, and culture from Napoleon's First Empire to De Gaulle's Fifth Republic, 1804-1958.

**Prerequisites:** jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 430G Reaction and Innovation: French Culture of the 19th and 20th Centuries**

3 cr. Undergraduate/Graduate.

French politics, society, and culture from Napoleon's First Empire to De Gaulle's Fifth Republic, 1804-1958.

**Prerequisites:** jr st; French 332(322)(P); French 324(327)(P) or 325(P); or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 431 Seminar in Literature of the Francophone World:**

3 cr. Undergraduate.

Works written in French by writers of Africa, North Africa, the Caribbean, and Quebec.

**Prerequisites:** junior standing, FRENCH 325(P), and FRENCH 332(P); or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2023, Fall 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 432 Seminar in French and Francophone Cultures:**

1-3 cr. Undergraduate.

In-depth study of selected topics in the cultures of France or French-speaking countries.

**Prerequisites:** FRENCH 324(P) or FRENCH 325(P), or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2022, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 433 Seminar in French Literature:**

3 cr. Undergraduate.

In-depth study of important works of French literature.

**Prerequisites:** jr st; French 325(P) & 332(322)(P).

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2020, Spring 2014, Fall 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 450 Institutions and Culture of Contemporary France**

3 cr. Undergraduate/Graduate.

Major political, social, cultural and economic forces shaping France today. France within the European Union and the Francophone world.

**Prerequisites:** jr st; French 325(P); one add'l 300-level French course or cons instr.

**Last Taught:** Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 450G Institutions and Culture of Contemporary France**

3 cr. Undergraduate/Graduate.

Major political, social, cultural and economic forces shaping France today. France within the European Union and the Francophone world.

**Prerequisites:** jr st; French 325(P); one add'l 300-level French course or cons instr.

**Last Taught:** Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 451 Cinema of the French-Speaking World:**

3 cr. Undergraduate/Graduate.

Narrative techniques and thematic content of French-language cinema.

**Prerequisites:** jr st; two of French 324(327)(P), 325(P), 332(322)(P) or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max. First enrollment only counts toward French major.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 451G Cinema of the French-Speaking World:**

3 cr. Undergraduate/Graduate.

Narrative techniques and thematic content of French-language cinema.

**Prerequisites:** jr st; two of French 324(327)(P), 325(P), 332(322)(P) or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max. First enrollment only counts toward French major.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 457 Topics in French and Francophone Studies in Translation:**

3 cr. Undergraduate/Graduate.

Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and cultural context.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** COMPLIT 457 & FRENCH 457 are jointly offered; they count as repeats of one another. May be retaken with change in topic to 9 cr max.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 457G Topics in French and Francophone Studies in Translation:**

3 cr. Undergraduate/Graduate.

Critical reading, lectures, and discussion of important works on a topic, genre, or historical period, with particular emphasis on intellectual and cultural context.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** COMPLIT 457 & FRENCH 457 are jointly offered; they count as repeats of one another. May be retaken with change in topic to 9 cr max.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 489 Internship in French**

1-6 cr. Undergraduate.

Application of advanced principles of French in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; a 300-level or above course in French; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** French 203(P); acceptance for Study Abroad Prog; conc reg in French 595(C).

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2004, Summer 2003, Spring 2003, Fall 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 510 Seminar on Masterpieces of Literature Written in French:**

3 cr. Undergraduate/Graduate.

Representative works of a major writer or writers.

**Prerequisites:** jr st; French 325(P) & 332(322)(P); or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 510G Seminar on Masterpieces of Literature Written in French:**

3 cr. Undergraduate/Graduate.

Representative works of a major writer or writers.

**Prerequisites:** jr st; French 325(P) & 332(322)(P); or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 520 Seminar in Contemporary French Literature:**

3 cr. Undergraduate/Graduate.

Trends and schools in contemporary novels, theatre, and poetry.

**Prerequisites:** jr st; French 325(P) & 332(322)(P); or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2010, Fall 1990.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 520G Seminar in Contemporary French Literature:**

3 cr. Undergraduate/Graduate.

Trends and schools in contemporary novels, theatre, and poetry.

**Prerequisites:** jr st; French 325(P) & 332(322)(P); or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2010, Fall 1990.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 592 Seminar in French Language:**

3 cr. Undergraduate/Graduate.

Historic, social, geographic, phonological, and lexical evolution of French. How French fits into global and regional contexts.

**Prerequisites:** jr st; two of French 324(327)(P), 325(P), & 332(322)(P);

French 392(P); or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 592G Seminar in French Language:**

3 cr. Undergraduate/Graduate.

Historic, social, geographic, phonological, and lexical evolution of French. How French fits into global and regional contexts.

**Prerequisites:** jr st; two of French 324(327)(P), 325(P), & 332(322)(P);

French 392(P); or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 599 Tools and Techniques of Research in French**

1 cr. Undergraduate.

Library resources available for research in French language and literature, including online academic databases, the library catalogue, and reference books.

**Prerequisites:** jr st; conc reg in one of French 428(C), 429(C), 430(C), 431(C), 432(C), 433(C), 450(C), 510(C), or 592(C).

**Last Taught:** Fall 2009, Spring 2009, Fall 2008, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 697 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 697G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 699 Advanced Independent Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a French faculty or instructional academic staff member. For further information, consult French prog coord.

**Prerequisites:** jr st; two 300-level French courses, 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2021, Spring 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 700 Practicum in French Language Teaching Methods**

1 cr. Graduate.

Practical application within French of methods and concepts taught in MALLT(MAFL) 700.

**Prerequisites:** grad st; MALLT(MAFL) 700(C) or cons instr.

**Course Rules:** Retakable to 2 cr max.

**Last Taught:** Spring 2019, Spring 2018, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 731 Seminar in Literature of the Francophone World:**

3 cr. Graduate.

Works written in French by writers of Africa, North Africa, the Caribbean, and Quebec.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2023, Fall 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 732 Topics in French and Francophone Culture:**

1-3 cr. Graduate.

Advanced study of selected topics in the cultures of France or french-speaking countries.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Retakable with change in topic to 9 cr max. Not open for cr to students with cr in FRENCH 432 with the same subtitle.

**Last Taught:** Fall 2022, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 733 Seminar in French Literature:**

3 cr. Graduate.

In-depth study of important works of French literature.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2020, Fall 2017, Spring 2014, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 797 Study Abroad:**

1-6 cr. Graduate.

Designed to enroll graduate students in UWM sponsored program before course work, level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Fall 2019, Spring 2013, Fall 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRENCH 799 Independent Study:**

1-3 cr. Graduate.

Supervised study with a member of the graduate faculty.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Spring 2023, Spring 2017, Fall 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Freshwater Sciences (FRSHWTR)

**FRSHWTR 101 Elements of Water**

3 cr. Undergraduate.

The most important natural resource on Earth is freshwater. This course will address the importance of water in biological, ecological, physical, climate and economic systems, and the consequences of disrupting the natural water cycle.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 120 Preparing for a Career in Freshwater Sciences**

1 cr. Undergraduate.

Provides students with an introduction to student success strategies and campus support services, an understanding of the freshwater sciences major's academic requirements, and an opportunity to explore careers, internships, and scholarships in the freshwater sciences.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 190 Topics in Freshwater Sciences:**

1-3 cr. Undergraduate.

Current issues in freshwater sciences for undergraduates.

**Prerequisites:** none, except as may be required for specific topics.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Summer 2023, Spring 2023, Spring 2022, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 191 Great Lakes Ecology**

3 cr. Undergraduate.

A select history of Great Lakes ecosystem change.

**Prerequisites:** none.**Course Rules:** Counts as repeat of Frshwtr 190 with similar topic.**Last Taught:** Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 201 The Water Environment**

3 cr. Undergraduate.

The water environment is the complex of physical, chemical, and biotic factors that act upon an organism and ultimately determine its form and survival.

**Prerequisites:** FRSHWTR 101(P), CHEM 104(P) or CHEM 115(P), and BIO SCI 152(P); or consent of instructor.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 202 Life in Water**

4 cr. Undergraduate.

How organisms interact with each other and their environment. An interdisciplinary approach will expose students to the vast diversity of life forms inhabiting different aquatic environments.

**Prerequisites:** a grade of C or better in BIO SCI 150(P) or equivalent, CHEM 102(P) or equivalent, and MATH 105(P) or equivalent; or consent of instructor.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 296 UROP Apprenticeship, Lower-Level**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hours of research.

**Prerequisites:** freshman or sophomore standing and acceptance to UROP.**Course Rules:** May be retaken up to 9 cr max in any combination of UROP Apprenticeship courses. Not open to juniors and seniors.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 300 Topics in Freshwater Sciences:**

1-3 cr. Undergraduate.

Current issues in freshwater sciences for upper-level undergraduates.

**Prerequisites:** junior standing or greater, BIO SCI 150(P), and CHEM 100(P).**Course Rules:** May be taken with change in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 321 Exploration of Inland Seas**

3 cr. Undergraduate.

An introduction to the unique physical, chemical and biological properties of Earth's largest lakes and their history of research and management.

**Prerequisites:** junior standing or above, or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 322 Ecology and Evolution of Freshwater Organisms**

3 cr. Undergraduate/Graduate.

Explores the fundamental concepts of population, community, and ecosystem ecology and evolution applied to aquatic ecosystems.

**Prerequisites:** junior standing, BIO SCI 150(P), BIO SCI 152(P), and BIO SCI 310(P); graduate standing; or consent of instructor.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 322G Ecology and Evolution of Freshwater Organisms**

3 cr. Undergraduate/Graduate.

Explores the fundamental concepts of population, community, and ecosystem ecology and evolution applied to aquatic ecosystems.

**Prerequisites:** junior standing, BIO SCI 150(P), BIO SCI 152(P), and BIO SCI 310(P); graduate standing; or consent of instructor.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 341 Sanitation and Sustainability**

3 cr. Undergraduate.

Examines the impacts of human populations on the natural environment and highlight the engineered systems and infrastructure that minimize these impacts.

**Prerequisites:** BIO SCI 152(P) and CHEM 102(P); or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 342 Water Pollution, Technology and Management**

3 cr. Undergraduate.

Overview of the types of pollutants found in freshwater systems, their origin and movement. Various approaches to cleanup, water and wastewater treatment will also be discussed.

**Prerequisites:** completion of one of the following: CHEM 102(P), CHEM 104(P), BIO SCI 150(P), BIO SCI 152(P) or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 361 Introduction to Environmental Data Systems**

3 cr. Undergraduate.

Introduction to approaches to acquire, manage, and process data and use the analysis outcomes to solve social-environmental and ecological problems.

**Prerequisites:** completion of one of the following: MTHSTAT 215, MATH 213, MATH 221, MATH 231, or COMPSCI 202; or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 362 Calculating Nature**

3 cr. Undergraduate.

Provides students with a fundamental set of mathematical tools and techniques for characterizing environmental systems.

**Prerequisites:** CHEM 104(P) and MATH 231(P) or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 381 Honors Seminar:**

3 cr. Undergraduate.

Selected topics in freshwater sciences.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.**Course Rules:** May be retaken with change in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 391 Water and Natural Resource Economics**

3 cr. Undergraduate.

Economic theory and tools for analyzing environmental management decisions are developed and applied to water and other natural resources.

**Prerequisites:** ECON 103(P) or consent of instructor.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 392 Water, Energy, Food, and Climate**

3 cr. Undergraduate.

Identify social and environmental dimensions of environmental systems at their interlinkages. Analyze policy and economic aspects of sustainability as it relates to water and related environmental issues such as climate, energy, and food.

**Prerequisites:** sophomore standing or higher.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 393 Water Law, Policy, and the Environment**

3 cr. Undergraduate.

Processes and complexities of environmental policy, legal-political responsiveness, and social-ecological resilience.

**Prerequisites:** sophomore standing or greater.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 421 Molecular Level Tools to Understand Larger Scale Change**

3 cr. Undergraduate.

An exploration of the tools and methods used to obtain and then scale-up molecular level data to understand freshwater ecosystems.

**Prerequisites:** junior standing or greater, CHEM 104(P), BIO SCI 152(P), FRSHWTR 201(P), and FRSHWTR 202(P); or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 461 Politics and Policy of Sustainability**

3 cr. Undergraduate/Graduate.

Principles of environmental policy, governance, and management for global sustainability.

**Prerequisites:** junior standing; CES 210(P) or consent of instructor.**Course Rules:** CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 461G Politics and Policy of Sustainability**

3 cr. Undergraduate/Graduate.

Principles of environmental policy, governance, and management for global sustainability.

**Prerequisites:** junior standing; CES 210(P) or consent of instructor.**Course Rules:** CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 464 Chemical Hydrogeology**

4 cr. Undergraduate/Graduate.

Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. 3 hrs lec, 3 hrs lab.

**Prerequisites:** jr st; CHEM 102(P).**Course Rules:** FRSHWTR 464 & GEO SCI 464 are jointly-offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 464G Chemical Hydrogeology**

4 cr. Undergraduate/Graduate.

Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. 3 hrs lec, 3 hrs lab.

**Prerequisites:** jr st; CHEM 102(P).**Course Rules:** FRSHWTR 464 & GEO SCI 464 are jointly-offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 471 Introduction to Sensing Networks**

3 cr. Undergraduate/Graduate.

A combination of satellite and underwater sensors are analyzed for surface water quantity observation. Students will learn modelling techniques for multiple sources of data.

**Prerequisites:** MTHSTAT 215(P) or FRSHWTR 583(P) and MATH 213(P) or MATH 231(P); or graduate standing; or consent of instructor.**Course Rules:** Counts as a repeat of FRSHWTR 650 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 471G Introduction to Sensing Networks**

3 cr. Undergraduate/Graduate.

A combination of satellite and underwater sensors are analyzed for surface water quantity observation. Students will learn modelling techniques for multiple sources of data.

**Prerequisites:** MTHSTAT 215(P) or FRSHWTR 583(P) and MATH 213(P) or MATH 231(P); or graduate standing; or consent of instructor.**Course Rules:** Counts as a repeat of FRSHWTR 650 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 490 Sustainable Design for Community Development**

3 cr. Undergraduate/Graduate.

Transdisciplinary students will work on sustainable projects and designs to address complex societal problems that require consideration of economy, environment, politics, and technology that leverage community-based knowledge.

**Prerequisites:** junior standing or consent of instructor; MECHENG 320(R).**Course Rules:** EAS 490, FRSHWTR 490, and PEACEST 490 are jointly offered and count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 490G Sustainable Design for Community Development**

3 cr. Undergraduate/Graduate.

Transdisciplinary students will work on sustainable projects and designs to address complex societal problems that require consideration of economy, environment, politics, and technology that leverage community-based knowledge.

**Prerequisites:** junior standing or consent of instructor; MECHENG 320(R).**Course Rules:** EAS 490, FRSHWTR 490, and PEACEST 490 are jointly offered and count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 496 UROP Apprenticeship, Upper-Level**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs of research.

**Prerequisites:** junior standing, acceptance to UROP, and prior or concurrent registration in UROP seminar.

**Course Rules:** May be retaken to 9 cr max in any combination of UROP apprenticeship courses.

**Last Taught:** Spring 2017, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** UWinterIM 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** UWinterIM 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 498 Undergraduate Research**

1-3 cr. Undergraduate.

Undergraduate research on faculty-supervised research projects.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 502 Aquatic Ecosystem Dynamics**

3 cr. Undergraduate/Graduate.

Interdisciplinary, quantitative approach to understanding large lake dynamic processes, including geological formation, hydrology, hydrodynamics, chemistry and the dynamics of plankton and fish communities.

**Prerequisites:** jr st; 1 sem calculus or algebra; 2 sem Physics, Chem, or Bio Sci; or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 502G Aquatic Ecosystem Dynamics**

3 cr. Undergraduate/Graduate.

Interdisciplinary, quantitative approach to understanding large lake dynamic processes, including geological formation, hydrology, hydrodynamics, chemistry and the dynamics of plankton and fish communities.

**Prerequisites:** jr st; 1 sem calculus or algebra; 2 sem Physics, Chem, or Bio Sci; or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 504 Quantitative Freshwater Analysis**

3 cr. Undergraduate/Graduate.

A fundamental set of tools for the quantitative analysis of environmental data sets, with an emphasis on the calculation of reservoirs, residence times and rates in aquatic systems.

**Prerequisites:** jr st; 1 sem calculus, Physics, Chem, & Bio Sci; or cons instr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 504G Quantitative Freshwater Analysis**

3 cr. Undergraduate/Graduate.

A fundamental set of tools for the quantitative analysis of environmental data sets, with an emphasis on the calculation of reservoirs, residence times and rates in aquatic systems.

**Prerequisites:** jr st; 1 sem calculus, Physics, Chem, & Bio Sci; or cons instr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 506 Environmental Health of Freshwater Ecosystems**

3 cr. Undergraduate/Graduate.

The influences of human-induced environmental change on the health of freshwater ecosystems and humans who interact with these systems.

**Prerequisites:** jr st.

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 506G Environmental Health of Freshwater Ecosystems**

3 cr. Undergraduate/Graduate.

The influences of human-induced environmental change on the health of freshwater ecosystems and humans who interact with these systems.

**Prerequisites:** jr st.

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 510 Economics, Policy and Management of Water**

3 cr. Undergraduate/Graduate.

The impact of economics, policy and management decisions on our freshwater resources and how science and economics affect these decisions.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 510G Economics, Policy and Management of Water**

3 cr. Undergraduate/Graduate.

The impact of economics, policy and management decisions on our freshwater resources and how science and economics affect these decisions.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 511 Ichthyology**

3 cr. Undergraduate/Graduate.

The diverse biology of fishes focusing on behavioral, biomechanical, genetic, and physiological adaptations to diverse ecological systems.

**Prerequisites:** junior standing and a grade of C or better in BIO SCI 310(P); or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 511G Ichthyology**

3 cr. Undergraduate/Graduate.

The diverse biology of fishes focusing on behavioral, biomechanical, genetic, and physiological adaptations to diverse ecological systems.

**Prerequisites:** junior standing and a grade of C or better in BIO SCI 310(P); or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 512 Freshwater Sciences Practicum:**

2-4 cr. Undergraduate/Graduate.

Diverse opportunities for practical, hands-on experience in the practice of freshwater science with emphasis on team work, problem solving, field work, and dissemination of results.

**Prerequisites:** junior standing, FRSHWTR 502(P), and FRSHWTR 504(P); or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 512G Freshwater Sciences Practicum:**

2-4 cr. Undergraduate/Graduate.

Diverse opportunities for practical, hands-on experience in the practice of freshwater science with emphasis on team work, problem solving, field work, and dissemination of results.

**Prerequisites:** junior standing, FRSHWTR 502(P), and FRSHWTR 504(P); or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 513 Field Experimentation and Analysis in Freshwater Sciences**

3 cr. Undergraduate/Graduate.

Student acquisition of comprehensive investigative procedures in freshwater ecology focusing on field and laboratory interactive assignments.

**Prerequisites:** jr st; Bio Sci 152(P); Chem 104(P); or grad st.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 513G Field Experimentation and Analysis in Freshwater Sciences**

3 cr. Undergraduate/Graduate.

Student acquisition of comprehensive investigative procedures in freshwater ecology focusing on field and laboratory interactive assignments.

**Prerequisites:** jr st; Bio Sci 152(P); Chem 104(P); or grad st.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 514 Analytical Techniques in Freshwater Sciences**

3 cr. Undergraduate/Graduate.

Modern analytical techniques and genomics principles and methods in freshwater sciences.

**Prerequisites:** jr st; Bio Sci 152(P); Chem 104(P); or grad st.

**Course Rules:** Counts as repeat of Frshwtr 650 w/same topic.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 514G Analytical Techniques in Freshwater Sciences**

3 cr. Undergraduate/Graduate.

Modern analytical techniques and genomics principles and methods in freshwater sciences.

**Prerequisites:** jr st; Bio Sci 152(P); Chem 104(P); or grad st.

**Course Rules:** Counts as repeat of Frshwtr 650 w/same topic.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 524 Introduction to Stable and Radioactive Isotopes**

3 cr. Undergraduate/Graduate.

Principles and applications of stable and radioactive isotopes and other biogeochemical tracers in aquatic environments.

**Prerequisites:** junior standing, CHEM 102(P), and CHEM 104(P); or graduate standing; or consent of instructor.

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 524G Introduction to Stable and Radioactive Isotopes**

3 cr. Undergraduate/Graduate.

Principles and applications of stable and radioactive isotopes and other biogeochemical tracers in aquatic environments.

**Prerequisites:** junior standing, CHEM 102(P), and CHEM 104(P); or graduate standing; or consent of instructor.

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 541 Contaminants of Emerging Concern**

3 cr. Undergraduate/Graduate.

Various emerging contaminants such as pharmaceuticals, plasticizers, nanomaterials, and their use, distribution, potential impacts on the environment.

**Prerequisites:** junior standing or higher.

**Course Rules:** Counts as repeat of FRSHWTR 650 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 541G Contaminants of Emerging Concern**

3 cr. Undergraduate/Graduate.

Various emerging contaminants such as pharmaceuticals, plasticizers, nanomaterials, and their use, distribution, potential impacts on the environment.

**Prerequisites:** junior standing or higher.

**Course Rules:** Counts as repeat of FRSHWTR 650 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 563 Finfish Aquaculture and Nutrition Principles**

3 cr. Undergraduate/Graduate.

Principles of aquaculture and fish nutrition; emphasis on Great Lakes; future challenges to aquaculture development in North America.

**Prerequisites:** junior standing, BIO SCI 152(P), and CHEM 104(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 563G Finfish Aquaculture and Nutrition Principles**

3 cr. Undergraduate/Graduate.

Principles of aquaculture and fish nutrition; emphasis on Great Lakes; future challenges to aquaculture development in North America.

**Prerequisites:** junior standing, BIO SCI 152(P), and CHEM 104(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 567 Fish Health**

3 cr. Undergraduate/Graduate.

Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.

**Prerequisites:** junior standing, BIO SCI 152(P), and CHEM 104(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 567G Fish Health**

3 cr. Undergraduate/Graduate.

Overview of current and emerging fish diseases and treatment strategies to diagnose and identify pathogens and disease to mitigate spread of disease.

**Prerequisites:** junior standing, BIO SCI 152(P), and CHEM 104(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 583 Cost-Benefit Analysis for Environmental Resource Decisions**

3 cr. Undergraduate/Graduate.

Development and illustration of cost-benefit analysis concepts, principles, and techniques through applications to environmental resource decisions.

**Prerequisites:** junior standing.**Course Rules:** Counts as repeat of FRSHWTR 650 with similar topic.**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 583G Cost-Benefit Analysis for Environmental Resource Decisions**

3 cr. Undergraduate/Graduate.

Development and illustration of cost-benefit analysis concepts, principles, and techniques through applications to environmental resource decisions.

**Prerequisites:** junior standing.**Course Rules:** Counts as repeat of FRSHWTR 650 with similar topic.**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 584 Aquatic Ecosystem Services Valuation**

3 cr. Undergraduate/Graduate.

Economic theory and methods in valuing aquatic and related terrestrial ecosystems.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of Frshwtr 650 with same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 584G Aquatic Ecosystem Services Valuation**

3 cr. Undergraduate/Graduate.

Economic theory and methods in valuing aquatic and related terrestrial ecosystems.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of Frshwtr 650 with same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 585 Applied Water Statistics and Data Manipulation**

3 cr. Undergraduate/Graduate.

Principles of data analysis, probability, and statistical inference are developed and applied to freshwater science and policy issues using the R software environment.

**Prerequisites:** junior status or above; or consent of instructor.**Course Rules:** Counts as repeat of FRSHWTR 650 with similar topic.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 585G Applied Water Statistics and Data Manipulation**

3 cr. Undergraduate/Graduate.

Principles of data analysis, probability, and statistical inference are developed and applied to freshwater science and policy issues using the R software environment.

**Prerequisites:** junior status or above; or consent of instructor.**Course Rules:** Counts as repeat of FRSHWTR 650 with similar topic.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 630 Leadership in Science: Tackling Wicked Problems**

3 cr. Undergraduate/Graduate.

Extends learning and practice into the role and relationships with individuals and groups in the leadership process in the context of wicked problems.

**Prerequisites:** jr st. or higher.**Course Rules:** Counts as repeat of Frshwtr 650 with similar topic.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 630G Leadership in Science: Tackling Wicked Problems**

3 cr. Undergraduate/Graduate.

Extends learning and practice into the role and relationships with individuals and groups in the leadership process in the context of wicked problems.

**Prerequisites:** jr st. or higher.**Course Rules:** Counts as repeat of Frshwtr 650 with similar topic.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 640 Sequence Analysis**

3 cr. Undergraduate/Graduate.

Molecular biology underlying nucleic and amino acid analyses and the tools available to conduct comparative sequence analysis.

**Prerequisites:** jr st; BIO SCI 152(P), BIO SCI 325(P), & CHEM 104(P); or grad st.**Course Rules:** Counts as repeat of Frshwtr 512 with similar topic.**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 640G Sequence Analysis**

3 cr. Undergraduate/Graduate.

Molecular biology underlying nucleic and amino acid analyses and the tools available to conduct comparative sequence analysis.

**Prerequisites:** jr st; BIO SCI 152(P), BIO SCI 325(P), & CHEM 104(P); or grad st.**Course Rules:** Counts as repeat of Frshwtr 512 with similar topic.**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**FRSHWTR 650 Topics in Freshwater Sciences:**

1-3 cr. Undergraduate/Graduate.

Current issues in freshwater sciences.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 650G Topics in Freshwater Sciences:**

1-3 cr. Undergraduate/Graduate.

Current issues in freshwater sciences.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 660 Professional and Capstone Planning**

1 cr. Undergraduate.

Preparation to work and communicate with environmental professionals, agencies, or clients and develop a written proposal to solve an environmental application or problem.

**Prerequisites:** junior or senior standing in the BS Freshwater program.**Course Rules:** Repeat required for students who do not pass.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 661 Undergraduate Capstone**

3 cr. Undergraduate.

Student teams develop analytical solutions to a freshwater or environmental problem in a multidisciplinary framework and in collaboration with environmental professionals, agencies, or clients.

**Prerequisites:** junior standing, FRSHWTR 660(P), and consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 662 Thesis Research Planning and Proposal Development**

1 cr. Undergraduate.

Prepares students for their thesis research through the process of writing a research proposal and understanding how to write a scientific paper.

**Prerequisites:** junior standing and completion of 24 credits in Freshwater Sciences, or instructor permission.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 663 Undergraduate Research and Thesis**

3 cr. Undergraduate.

Intensive independent study course for students undertaking the research and writing of a senior thesis.

**Prerequisites:** FRSHWTR 662(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 690 Undergraduate Seminar in Freshwater Sciences:**

1-3 cr. Undergraduate.

Seminar on topics of current interest in freshwater sciences.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2018, Fall 2017, Fall 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 695 Independent Study in Freshwater Sciences for Biological Sciences Students**

1-3 cr. Undergraduate.

Independent and original research on a topic not available as a regular course; conducted under the direction of faculty or staff scientist from the School of Freshwater Science.

**Prerequisites:** jr st; Bio Sci 325 (P); one of Bio Sci 310(P), 315(P)/316(P), or 383(P); 2.500 GPA; writ cons instr, dept chair, & asst dean for SAS.**Course Rules:** Bio Sci 695 & Frshwtr 695 are jointly offered; w/ same subject, they count as repeats of one another. May be retaken to 6 cr max. Satisfies Bio Sci research req; does not count as a Bio Sci lab course.**Last Taught:** Spring 2023, Fall 2020, Summer 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 699 Independent Study for Undergraduates**

1-3 cr. Undergraduate.

Independent study on a topic not available as a regular course; conducted under the supervision of a faculty member; requires approved study proposal.

**Prerequisites:** jr st; cons instr.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2022, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 781 Water Law for Scientists and Policy Makers**

3 cr. Graduate.

The course is formatted to provide five (5) classes each on the Clean Water Act and basic common law concepts of Water Law; The Great Lakes Compact; and Wisconsin's Groundwater Protection Act. Counts as repeat of Frsh Wtr 650 with similar topic.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 784 Water Consulting Experience**

3 cr. Graduate.

Diverse opportunities for practical, hands-on experience in the consulting practice of freshwater science and policy with emphasis on team work, problem solving, research and writing, and presentation of results.

**Prerequisites:** graduate standing.**Course Rules:** Counts as repeat of FRSHWTR 512 with the topic Freshwater Policy and Management.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 810 Professional Development for Water Leaders**

3 cr. Graduate.

Exploration of skill set needed for lifelong career development: research ethics, communications, teamwork, interpersonal relationships, administration, entrepreneurship, project management, and leadership.

**Prerequisites:** Counts as repeat of FrshWtr 650 with similar topic. Prereq grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**FRSHWTR 888 Candidate for Degree**

0 cr. Graduate.

Available for grad students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Summer 2023, Spring 2020, Fall 2019, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 890 Science Communication**

3 cr. Graduate.

Effective communication of science behind critical water issues at different levels of complexity and to diverse audiences.

**Prerequisites:** graduate standing.**Course Rules:** Counts as repeat of FRSHWTR 650 with similar topic. Counts as repeat of ENGLISH 890 for students in the freshwater programs.**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 900 Colloquium in Freshwater Sciences**

1 cr. Graduate.

Lectures by staff and visitors on research in various areas of freshwater sciences.

**Prerequisites:** grad st.**Course Rules:** Retakable up to 2 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 901 Seminar in Freshwater Sciences:**

1-3 cr. Graduate.

Seminar on topics of current interest in freshwater sciences.

**Prerequisites:** grad st.**Course Rules:** May be repeated w/ chg in topic to 9 cr max.**Last Taught:** Fall 2018, Spring 2018, Fall 2017, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 980 Graduate Internship**

1-3 cr. Graduate.

Students earn credits for serving in an internship that involves work related to freshwater sciences disciplines.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Retakable to 6 cr max. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 985 Master's Research and Thesis**

1-6 cr. Graduate.

Research and writing of the master's thesis under the supervision of the major professor.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 990 Doctoral Research and Dissertation**

1-9 cr. Graduate.

Research and writing of the doctoral dissertation under the supervision of the major professor.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**FRSHWTR 999 Independent Study**

1-3 cr. Graduate.

For graduate students unable to secure needed content in regular courses.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable w/ chg in topic to 6 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Geography (GEOG)

**GEOG 105 Introduction to Human Geography**

3 cr. Undergraduate.

How humans interact with and alter the Earth through cultural, political, and economic processes; how these processes are dependent on and affect Earth's natural resources. 2 hrs lec, 1 hr dis.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 110 The World: Peoples and Regions**

3 cr. Undergraduate.

Introduction to regional cultural geography through a study of representative and significant areas of the earth.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 114 Geography of Race in the United States**

3 cr. Undergraduate.

Contemporary geographic issues of segregation, assimilation, belonging, and exclusion facing African-American, white, Asian, Latino, Native American and either groups in the U.S. 2 hrs lec, 1 hr dis.

**Prerequisites:** none.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 115 Globalization and Economic Development**

3 cr. Undergraduate.

Geographic perspectives on world economy: geographic organization of contemporary production and consumption around the world; historical development of capitalist economy; economic geography of globalization processes.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 120 Our Physical Environment**

3 cr. Undergraduate.

Characteristics and significance of world land form, climate, soils, vegetation, and mineral and water resources. 2 hrs lec, 2 hrs lab/dis.

**Prerequisites:** none.**Course Rules:** Not open for cr to students w/cr in Geog 121(ER), 122(ER).**General Education Requirements:** NS+**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 125 Introduction to Environmental Geography**

3 cr. Undergraduate.

Introduction to environmental geography and related environmental problems aimed at understanding of the earth's systems in our daily encounter with them.

**Prerequisites:** none.**General Education Requirements:** NS**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 140 Our Urban Environment: Introduction to Urban Geography**

3 cr. Undergraduate.

Site and situation, central functions, spatial patterns of socio-economic and demographic characteristics of urban population. Spatial patterns of urban economy.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Spring 2006, Spring 2004, Summer 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 213 Geography of Asia**

3 cr. Undergraduate.

Population, resources, development, and diversity. Regions discussed are East Asia, Southeast Asia, South Asia, and Central Asia.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2018, Spring 2015, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 215 Introduction to Geographic Information Science**

3 cr. Undergraduate.

Geographic objects, their representation and analysis. Topics include special nature of spatial data; concepts of space, mapping, spatial relationships; and use of geographic information systems. 2 hrs lec, 2 hrs lab.

**Prerequisites:** none.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 247 Quantitative Analysis in Geography**

3 cr. Undergraduate.

Application of quantitative measures to geographic problems. Topics include descriptive statistics, statistical inference, and bivariate relationships.

**Prerequisites:** Satisfaction of GER Quantitative Literacy - Part A.**Course Rules:** 2 hrs lec, 2 hrs lab.**General Education Requirements:** QL B**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 289 Internship in Geography, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of geography in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Geog; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Last Taught:** Summer 2008, Spring 2006, Fall 2005, Summer 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance into UROP; prior or concurrent registration in UROP seminar.**Course Rules:** One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.**Last Taught:** Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2023, Summer 2022, Spring 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 1998, Spring 1989, Spring 1986.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 304 Human Impact on the Environment**

3 cr. Undergraduate.

Geographical and temporal distribution of human effects on land and resources; historical background of human concern for deleterious effects of impacts on environments.

**Prerequisites:** jr st; intro course in Geog or a life sci recom.**General Education Requirements:** SS**Last Taught:** Fall 2022, Spring 2017, Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEOG 306 Natural Hazards**

3 cr. Undergraduate.

An introduction to processes and conditions responsible for natural hazards, reasons for geographic patterns of hazards' occurrence, and modes of adjustment to natural hazards.

**Prerequisites:** jr st; a physical geog course recom.**General Education Requirements:** NS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 309 Nationalities and Nations of the World**

3 cr. Undergraduate.

Geographies of national identities and nationalism. Changing borders of countries, transnational migration, refugees. Use of memorial spaces rel. to national identity and legacies of colonialism. Transnational human rights activism, fascism, neoliberalism and its opposition.

**Prerequisites:** junior standing or one of the following: GEOG 110(P), GEOG 114(P), ETHNIC 101(P), or ETHNIC 102(P); or consent of instructor.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 310 General Climatology**

3 cr. Undergraduate.

Global patterns of climate and the processes that shape them. Climatic elements, upper-atmospheric waves, internet data, Midwest climate, climate classification, and climate change.

**Prerequisites:** jr st; Geog 120(R), Atm Sci 100(R), or Atm Sci 240(R).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 330 Europe: East and West**

3 cr. Undergraduate.

Europe's lands and peoples, physical and cultural diversities and similarities.

**Prerequisites:** jr st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 333 Muslim Geographies: Identities and Politics**

3 cr. Undergraduate.

Origins and main features of Islam and the diversity of Muslim cultures in various geographical, social, cultural, and political contexts.

**Prerequisites:** none.

**Course Rules:** Previously GEOG 231.

**General Education Requirements:** SS

**Last Taught:** Spring 2019, Spring 2017, Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 340 Biogeography**

3 cr. Undergraduate.

An introduction to the geography of the biosphere, the earth's surface, and the plants and animals which live there.

**Prerequisites:** jr st; a physical geog or a biology course recom.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 350 Conservation of Natural Resources**

3 cr. Undergraduate.

Analysis of environmental ethics; the positive and negative consequences of resource development with emphasis on strategies designed to resolve environmental conflicts.

**Prerequisites:** jr st or a geog course.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 381 Honors Seminar.**

3 cr. Undergraduate.

Selected topics in geography.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Spring 2022, Fall 2019, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 403 Remote Sensing: Environmental and Land Use Analysis**

4 cr. Undergraduate.

Use of aerial photographs and digital imagery in environmental and land use analysis, including urban areas. 3 hrs lec; 2 hrs lab. PC/Windows familiarity recom.

**Prerequisites:** jr st & Geog 215(P).

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 405 Cartography**

4 cr. Undergraduate.

Thematic cartography; map communication, design principles, illustration and mapping software. 3 hrs lec, 2 hrs lab.

**Prerequisites:** jr st & Geog 215(P).

**Last Taught:** Spring 2022, Spring 2019, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 410 Gendered Geographies**

3 cr. Undergraduate/Graduate.

Various ways feminist geographers have analyzed gender in relation to phenomena such as the body, home, work, the nation, colonization, and globalization.

**Prerequisites:** jr st & one of Geog 105(P) or 110(P) or Wmns 200(P) or 201(P) or equiv; or grad st.

**Last Taught:** Spring 2011, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 410G Gendered Geographies**

3 cr. Undergraduate/Graduate.

Various ways feminist geographers have analyzed gender in relation to phenomena such as the body, home, work, the nation, colonization, and globalization.

**Prerequisites:** jr st & one of Geog 105(P) or 110(P) or Wmns 200(P) or 201(P) or equiv; or grad st.

**Last Taught:** Spring 2011, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 415 Hydrogeography**

3 cr. Undergraduate/Graduate.

Role of water in geographic systems. Interaction of water with physical and human systems, key hydrological processes, spatial and temporal variations of water, data collection, modeling.

**Prerequisites:** junior standing and GEOG 120(P) or GEOG 125(P); or graduate standing.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 415G Hydrogeography**

3 cr. Undergraduate/Graduate.

Role of water in geographic systems. Interaction of water with physical and human systems, key hydrological processes, spatial and temporal variations of water, data collection, modeling.

**Prerequisites:** junior standing and GEOG 120(P) or GEOG 125(P); or graduate standing.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 437 Qualitative Methods in Geography**

3 cr. Undergraduate.

Research design, interview, focus group, ethnography, survey, and discourse analysis; epistemological debates and the methodological and ethical issues that arise throughout the research process.

**Prerequisites:** jr st; Geog 105(P), 110(P), 114(P), or 140(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 441 Geography of Cities and Metropolitan Areas**

3 cr. Undergraduate/Graduate.

Extent, localization, and geographic relations of land uses, facilities, and internal circulation, with particular reference to large North American cities.

**Prerequisites:** jr st & intro course in geog or acceptable course in an urban related field, e.g. Econ, UrbPlan, Urb Std; or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 441G Geography of Cities and Metropolitan Areas**

3 cr. Undergraduate/Graduate.

Extent, localization, and geographic relations of land uses, facilities, and internal circulation, with particular reference to large North American cities.

**Prerequisites:** jr st & intro course in geog or acceptable course in an urban related field, e.g. Econ, UrbPlan, Urb Std; or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 443 Cities of the World: Comparative Urban Geography**

3 cr. Undergraduate/Graduate.

Geographic analysis of world urban systems with emphasis on the cultural traditions, form, function and socio-economic development of cities.

**Prerequisites:** jr st & Geog 110(P), 115(P), or 140(P).

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 443G Cities of the World: Comparative Urban Geography**

3 cr. Undergraduate/Graduate.

Geographic analysis of world urban systems with emphasis on the cultural traditions, form, function and socio-economic development of cities.

**Prerequisites:** jr st & Geog 110(P), 115(P), or 140(P).

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 450 Climates of the Past and Climate Change**

3 cr. Undergraduate/Graduate.

Climatic history of the earth and climate models. Milankovitch theory, quaternary climates, temporal-spatial scales of change, general circulation, and earth system models.

**Prerequisites:** jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 450G Climates of the Past and Climate Change**

3 cr. Undergraduate/Graduate.

Climatic history of the earth and climate models. Milankovitch theory, quaternary climates, temporal-spatial scales of change, general circulation, and earth system models.

**Prerequisites:** jr st, Geog 120(P) or Atm Sci 100(P) or 240(P), & Geog 310(R); or grad st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 464 Environmental Problems**

3 cr. Undergraduate/Graduate.

General discussion and case studies of geographical contexts and historical roots of modern environmental problems. History of human concern over adverse environmental impacts.

**Prerequisites:** jr st & an intro course in a life science or environmental science.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 464G Environmental Problems**

3 cr. Undergraduate/Graduate.

General discussion and case studies of geographical contexts and historical roots of modern environmental problems. History of human concern over adverse environmental impacts.

**Prerequisites:** jr st & an intro course in a life science or environmental science.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 489 Internship in Geography, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of geography in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Geog; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Summer 2023, Summer 2022, Fall 2019, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 496 UROP Apprenticeship, Upper Level**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.

**Prerequisites:** jr st; acceptance to UROP.

**Course Rules:** May be retaken to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 515 Watershed Analysis and Modeling**

3 cr. Undergraduate.

Theories and applications of analytical and modeling techniques for watershed processes, including geographic information systems (GIS), statistics, and computer simulations.

**Prerequisites:** junior standing; working knowledge of GIS; GEOG 415(R), GEO SCI 463(R), or GEOG 562(R).

**Last Taught:** Fall 2023, Spring 2020, Fall 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 520 Physical Geography of the City**

3 cr. Undergraduate/Graduate.

Spatial aspects and interactions of plants, animals, climate, soils, and water resources relevant to human activities in the urban environment.

**Prerequisites:** jr st & Geog 120(P) or 125(P); or grad st.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 520G Physical Geography of the City**

3 cr. Undergraduate/Graduate.

Spatial aspects and interactions of plants, animals, climate, soils, and water resources relevant to human activities in the urban environment.

**Prerequisites:** jr st & Geog 120(P) or 125(P); or grad st.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 525 Geographic Information Science**

4 cr. Undergraduate.

Geographic and information theoretical foundations of geographic information science (GIS). Use of macro languages in a software project to expand GIS functionality. 3 hrs lec, 2 hrs lab.

**Prerequisites:** jr st, & Geog 215(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 540 Globalization and the City**

3 cr. Undergraduate/Graduate.

Spatial aspects of globalization and their impact on the city. Topics include emergence of global cities, impacts on urban development, and global era urban strategies.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 540G Globalization and the City**

3 cr. Undergraduate/Graduate.

Spatial aspects of globalization and their impact on the city. Topics include emergence of global cities, impacts on urban development, and global era urban strategies.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 547 Spatial Analysis**

4 cr. Undergraduate.

Advanced analysis techniques, including multivariate relationships and spatial modeling.

**Prerequisites:** jr st; Geog 247(P) or dept-approved equiv.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 564 Urban Environmental Change and Social Justice**

3 cr. Undergraduate/Graduate.

Spatial aspects of contributors to urban environmental change affecting social justice. Inequitable distribution of environmental risks and benefits; challenge of developing policies.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 564G Urban Environmental Change and Social Justice**

3 cr. Undergraduate/Graduate.

Spatial aspects of contributors to urban environmental change affecting social justice. Inequitable distribution of environmental risks and benefits; challenge of developing policies.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 600 Perspectives on Geography**

3 cr. Undergraduate.

Seminar on concepts, methods, and approaches to geographic inquiry. Discussion of professional geographic materials, bibliographic procedures and methodologies.

**Prerequisites:** sr st; declared geography major; writ cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 625 Intermediate Geographic Information Science**

4 cr. Undergraduate.

Concepts and techniques of geographic information science (GIS), with emphasis on GIS-based spatial analysis, associated applications, and technology. 3 hrs lec, 2 hrs lab.

**Prerequisites:** jr st: Geog 525(P) or UrbPlan 591(P) or 791(P); or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 650 Geography Field Work**

3 cr. Undergraduate/Graduate.

Geographic field work research techniques and field work research projects.

**Prerequisites:** junior standing; written consent of instructor.

**Course Rules:** Students will pay fieldwork expenses. May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 650G Geography Field Work**

3 cr. Undergraduate/Graduate.

Geographic field work research techniques and field work research projects.

**Prerequisites:** junior standing; written consent of instructor.

**Course Rules:** Students will pay fieldwork expenses. May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 696 Independent Work in Physical Geography**

1-3 cr. Undergraduate.

Independent reading or project on a physical geography topic under the supervision of a geography faculty member.

**Prerequisites:** jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2017, Spring 2015, Fall 2012, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 698 GIS/Cartography Internship**

1-6 cr. Undergraduate.

Practical GIS/cartography experience with government agency or private firm under supervision of working expert and faculty member. Intern's contract specifies duties and duration.

**Prerequisites:** jr st; Geog 215(P); writ cons instr & dept chair.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 699 Independent Work**

1-3 cr. Undergraduate.

Independent reading or project. See Advanced Independent Study.

**Prerequisites:** jr st, 2.0 GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Summer 2020, Spring 2020, Spring 2019, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 704 Remote Sensing: Environmental and Land Use Analysis**

4 cr. Graduate.

Use of aerial photographs and digital imagery in environmental and land use analysis, including urban areas. 3 hrs lec; 2 hrs lab

**Prerequisites:** PC/Windows familiarity recom.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 705 Cartography**

4 cr. Graduate.

Thematic cartography; map communication, design principles, illustration and mapping software. 3 hrs lec, 2 hrs lab.

**Prerequisites:** grad st.

**Course Rules:** Counts as repeat of Geog 405. Not open for cr to students w/grad cr in Geog 405.

**Last Taught:** Spring 2022, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 716 Watershed Analysis and Modeling**

3 cr. Graduate.

Theories and applications of analytical and modeling techniques for watershed processes, including geographic information systems (GIS), statistics, and computer simulations.

**Prerequisites:** grad st; working knowledge of GIS.

**Course Rules:** Not open for cr to students w/grad cr in Geog 515.

**Last Taught:** Fall 2023, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 726 Geographic Information Science**

4 cr. Graduate.

Geographic and information theoretical foundations of geographic information science (GIS). Use of macro languages in a software project to expand GIS functionality. 3 hrs lec, 2 hrs lab.

**Prerequisites:** grad st.

**Course Rules:** Not open for cr to students w/ grad cr in Geog 525.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 737 Qualitative Research**

3 cr. Graduate.

Qualitative research as applied in geography, including the relationship between quantitative and qualitative approaches, issues of interpretation, and ethics of field work.

**Prerequisites:** graduate standing.

**Course Rules:** Previously GEOG 827.

**Last Taught:** Spring 2020, Spring 2019, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 747 Spatial Analysis**

4 cr. Graduate.

Advanced analysis techniques, including multivariate relationships and spatial modeling.

**Prerequisites:** grad st.

**Course Rules:** Not open for cr to students w/grad cr in GEOG 547.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 798 GIS/Cartography Internship**

1-4 cr. Graduate.

Practical GIS/cartography experience with government agency or private firm under supervision of working expert and faculty member. Intern's contract specifies duties and duration.

**Prerequisites:** graduate standing, written consent of instructor and department chair.

**Course Rules:** May be retaken to 8 cr max.

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 804 Advanced Remote Sensing**

3 cr. Graduate.

Advanced techniques of image processing and analysis, including classification, georegistration, and spatial modeling.

**Prerequisites:** grad st; Geog 704(P)

**Course Rules:** Counts as a repeat of Geog 703.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 810 Introduction to Techniques of Research and Presentation**

3 cr. Graduate.

Proseminar on the scholarly use of materials in all aspects of geography; training for effective presentation in both written and oral form.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 826 Intermediate Geographic Information Science**

4 cr. Graduate.

Concepts and techniques of geographic information science (GIS), with emphasis on GIS-based spatial analysis, associated applications, and technology. 3 hrs lec, 2 hrs lab.

**Prerequisites:** grad st; Geog 525(P) or Geog 726(P) or UrbPlan 591(P) or UrbPlan 791(P).

**Course Rules:** Counts as a repeat of Geog 625. Not open for cr to students w/grad cr in Geog 625.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 870 Contemporary Geographic Approaches:**

3 cr. Graduate.

Foundations of geographic inquiry, with emphasis on the roles of sub-disciplines, and generalist/specialist approaches in the development of geographic science.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirements.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Spring 2023, Fall 2022, Spring 2021, Summer 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 889 Internship in Geography**

1-6 cr. Graduate.

Application of advanced principles of geography in a business, organizational, educational, political, or other appropriate setting. Intern's contract specifies duties and duration.

**Prerequisites:** grad st; Geog 810(P); writ cons instr & dept chair.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Fall 2021, Summer 2021, Summer 2020, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 890 Research and Master Thesis**

1-6 cr. Graduate.

Research connected with master thesis.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 905 Seminar: Selected Topics in Geography:**

3 cr. Graduate.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/topic chg to 9 cr max.

**Last Taught:** Spring 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 910 Techniques of Research and Presentation**

3 cr. Graduate.

Seminar on theoretical and practical aspects of geographic research, funding, presentation, and publication.

**Prerequisites:** grad st in Geog Ph.D. program.

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 945 The Internal Structure of the City**

3 cr. Graduate.

The interaction of forces responsible for the evolution of the city as a spatial form and the allocation of economic and social activity within the spatial configuration.

**Prerequisites:** grad st.

**Course Rules:** Geog 945 & Urb Std 945 are jointly-offered; they count as repeats of one another.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 990 Research and Doctoral Dissertation**

1-12 cr. Graduate.

Research projects connected with dissertation.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Retakeable as necessary to fulfill thesis requirements. Consult coordinator/chair of graduate studies.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEOG 999 Independent Work**

1-6 cr. Graduate.

Independent reading or project.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 12 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



## Geosciences (GEO SCI)

### GEO SCI 100 Introduction to the Earth

3 cr. Undergraduate.

Study of earth processes and materials as they relate to people and the environment. Lec, lab.

**Prerequisites:** none.

**Course Rules:** Voluntary field trip for which fee is assessed. No credit for students with credit in GEO SCI 185.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### GEO SCI 102 Principles of Historical Geology

3 cr. Undergraduate.

Principles for interpreting the physical and paleontological history of the earth using case studies from the rock record. 2 hrs lec, 3 hrs lab.

**Prerequisites:** none.

**Course Rules:** Field trip for which fee is assessed.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### GEO SCI 105 Earth, Air, Fire and Water

3 cr. Undergraduate.

A study of planet Earth from formation through history to modern-day oceans, atmosphere, continents, and interior; how all interact to form the human environment.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### GEO SCI 106 The Earth Environment

3 cr. Undergraduate.

The Earth and its environment; emphasis on the interrelationships of humans with the Earth's processes and responses. Lec.

**Prerequisites:** none.

**Course Rules:** Voluntary field trip for which fee is assessed.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### GEO SCI 108 A History of Life

3 cr. Undergraduate.

Major features of the history of life; how paleontologists reconstruct this history. 2 hrs lec, 2 hrs lab.

**Prerequisites:** none.

**General Education Requirements:** NS+

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### GEO SCI 109 Dinosaurs

3 cr. Undergraduate.

The natural history of dinosaurs and how geologists and paleontologists reconstruct that history.

**Prerequisites:** none.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### GEO SCI 120 Geology of the Planets

3 cr. Undergraduate.

Geological features of the planets, similarities and differences in materials and processes, significance of space exploration to geology. Lec/Lab.

**Prerequisites:** none.

**General Education Requirements:** NS+

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### GEO SCI 150 Introduction to Ocean Sciences

3 cr. Undergraduate.

Survey of the interdisciplinary sciences supporting oceanography. Designed for students who do not plan to major in geological sciences but are interested in the recent advances of marine sciences. Lec, voluntary dis.

**Prerequisites:** none.

**Course Rules:** Not open for cr to students who have had Geo Sci 460.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### GEO SCI 151 Ocean Sciences Laboratory

1 cr. Undergraduate.

Laboratory exercises and demonstrations of the physical, chemical and biological processes operating in the oceans and how scientists study these processes. 2 hrs lab.

**Prerequisites:** Geo Sci 150(C).

**Course Rules:** Not open for cr to students who have had Geo Sci 460 or 461.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### GEO SCI 194 First-Year Seminar.

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** NS

**Last Taught:** Fall 2019, Fall 2017, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### GEO SCI 199 Independent Study

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2013, Fall 2011, Summer 2011, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2020, Fall 2019, Spring 2018, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 301 Principles of Mineralogy**

4 cr. Undergraduate.

Major rock-forming minerals, their associations, geologic occurrence, and importance with an emphasis on identification using physical properties and other techniques. 3 hrs lec, 3 hrs lab.

**Prerequisites:** GEO SCI 100(P); course in college chem.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 302 Elementary Petrology**

4 cr. Undergraduate.

Continuation of GEO SCI 301. Igneous and metamorphic rocks, including classification, genesis, field identification, and petrographic microscope study. 3 hrs lec, 3 hrs lab.

**Prerequisites:** GEO SCI 301(P).

**Course Rules:** Required field trip for which fee is assessed.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 316 Introduction to Geophysics**

4 cr. Undergraduate.

Geophysical methods and their applications to the understanding of the interior of the Earth and global tectonics. 3 hrs lec, 3 hrs lab.

**Prerequisites:** GEO SCI 100(P) or GEO SCI 101(P); and PHYSICS 209(P) or PHYSICS 209(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 381 Honors Seminar:**

3 cr. Undergraduate.

Selected topics.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max. Field trips may be required.

**General Education Requirements:** NS

**Last Taught:** Spring 2023, Spring 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 400 Water Quality**

4 cr. Undergraduate/Graduate.

Water availability and water quality in surface and subsurface water bodies; management of water as a resource.

**Prerequisites:** junior standing and CHEM 102(P) or consent of instructor.

**Course Rules:** 3 hrs lec, 3 hrs lab.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 400G Water Quality**

4 cr. Undergraduate/Graduate.

Water availability and water quality in surface and subsurface water bodies; management of water as a resource.

**Prerequisites:** junior standing and CHEM 102(P) or consent of instructor.

**Course Rules:** 3 hrs lec, 3 hrs lab.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 409 Process Geomorphology**

4 cr. Undergraduate/Graduate.

Study of geological processes and their effect on the formation and evolution of land forms. 3 hrs lec, 3 hrs lab, field trips for which fee is assessed.

**Prerequisites:** jr st; GEO SCI 100(P), GEOG 120(P), or GEOG 121(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 409G Process Geomorphology**

4 cr. Undergraduate/Graduate.

Study of geological processes and their effect on the formation and evolution of land forms. 3 hrs lec, 3 hrs lab, field trips for which fee is assessed.

**Prerequisites:** jr st; GEO SCI 100(P), GEOG 120(P), or GEOG 121(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 414 Structural Geology**

4 cr. Undergraduate.

Description and analysis of primary and secondary geological structures; regional and global frameworks of geological structures. 3 hrs lec, 3 hrs lab.

**Prerequisites:** junior standing; Math Placement Level 40; GEO SCI 302(C).

**Course Rules:** Field trip for which fee is assessed.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 420 Methods in Paleomagnetism and Environmental Magnetism**

3 cr. Undergraduate.

Theoretical and practical foundation in paleomagnetism and environmental magnetism, including hands-on work with samples and real data.

**Prerequisites:** jr st; MATH 231(R); PHYSICS 210(R) or PHYSICS 122(R).

**Course Rules:** Counts as a repeat of GEO SCI 696 with the same topic.

Not open to students w/ credit in GEO SCI 720.

**Last Taught:** Fall 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 421 Conservation Paleontology**

3 cr. Undergraduate.

Application of theories and analytical tools of paleontology to biodiversity conservation.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** Counts as a repeat of GEO SCI 696 with topic 'Conservation Paleontology'.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 422 Plant-Insect Interactions in Deep Time**

3 cr. Undergraduate.

Fossil record of interactions between plants and insects, focusing on herbivory and pollination; basic overview of the fossil record and evolutionary history of plants and insects.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** Counts as a repeat of GEO SCI 696 with topic 'Plant and Insect Relationships in Deep Time'.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 435 History of Geologic Thought**

3 cr. Undergraduate/Graduate.

History of development of the major concepts in geology.

**Prerequisites:** jr st; Geo Sci 102(P) or cons instr.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 435G History of Geologic Thought**

3 cr. Undergraduate/Graduate.

History of development of the major concepts in geology.

**Prerequisites:** jr st; Geo Sci 102(P) or cons instr.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 443 Glacial and Pleistocene Geology**

4 cr. Undergraduate/Graduate.

Mechanics of glacial flow, Pleistocene stratigraphy, and laboratory techniques. 3 hrs lec, 3 hrs lab.

**Prerequisites:** jr st; GEO SCI 100(P), GEO SCI 101(P), GEOG 120(P), or GEOG 121(P). GEO SCI 102(R) or GEO SCI 108(R).

**Course Rules:** Field trips for which fees are assessed.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 443G Glacial and Pleistocene Geology**

4 cr. Undergraduate/Graduate.

Mechanics of glacial flow, Pleistocene stratigraphy, and laboratory techniques. 3 hrs lec, 3 hrs lab.

**Prerequisites:** jr st; GEO SCI 100(P), GEO SCI 101(P), GEOG 120(P), or GEOG 121(P). GEO SCI 102(R) or GEO SCI 108(R).

**Course Rules:** Field trips for which fees are assessed.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 455 Field Geology**

3-8 cr. Undergraduate.

Geologic field work and mapping. Taken off-campus, usually during the summer.

**Prerequisites:** sr st; Geo Sci 302(P) & 414(P).

**Course Rules:** May be retaken to 8 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 463 Physical Hydrogeology**

4 cr. Undergraduate/Graduate.

Study of ground water occurrence, its interrelationship with surface water, aquifer properties, groundwater flow and water supply development, including well hydraulics, water quality, and groundwater law. 3 hrs lec, 3 hrs lab, & field trip.

**Prerequisites:** jr st; GEO SCI 100(P) or GEO SCI 101(P); MATH 232(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 463G Physical Hydrogeology**

4 cr. Undergraduate/Graduate.

Study of ground water occurrence, its interrelationship with surface water, aquifer properties, groundwater flow and water supply development, including well hydraulics, water quality, and groundwater law. 3 hrs lec, 3 hrs lab, & field trip.

**Prerequisites:** jr st; GEO SCI 100(P) or GEO SCI 101(P); MATH 232(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 464 Chemical Hydrogeology**

4 cr. Undergraduate/Graduate.

Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. 3 hrs lec, 3 hrs lab.

**Prerequisites:** jr st; CHEM 102(P).

**Course Rules:** FRSHWTR 464 & GEO SCI 464 are jointly-offered; they count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 464G Chemical Hydrogeology**

4 cr. Undergraduate/Graduate.

Natural chemical processes that occur in groundwater systems, how they are modified by human activity and contamination, and attempts to regulate them. 3 hrs lec, 3 hrs lab.

**Prerequisites:** jr st; CHEM 102(P).

**Course Rules:** FRSHWTR 464 & GEO SCI 464 are jointly-offered; they count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2015, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2015, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 1996, Summer 1988.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 511 Stratigraphy and Sedimentation**

4 cr. Undergraduate/Graduate.

Techniques and principles of sedimentology and stratigraphy, including methods of correlation, analysis of facies, stratigraphic mapping, and tectonic controls of sedimentation. 3 hrs lec, 3 hrs lab, and field trips.

**Prerequisites:** jr st; GEO SCI 102(P) or equiv.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 511G Stratigraphy and Sedimentation**

4 cr. Undergraduate/Graduate.

Techniques and principles of sedimentology and stratigraphy, including methods of correlation, analysis of facies, stratigraphic mapping, and tectonic controls of sedimentation. 3 hrs lec, 3 hrs lab, and field trips.

**Prerequisites:** jr st; GEO SCI 102(P) or equiv.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 515 Physical Sedimentology**

4 cr. Undergraduate/Graduate.

Physical properties, processes, and environments of clastic sediments. 3 hrs lec, 3 hrs lab, field trip for which fee is assessed.

**Prerequisites:** jr st; GEO SCI 511(P).**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 515G Physical Sedimentology**

4 cr. Undergraduate/Graduate.

Physical properties, processes, and environments of clastic sediments. 3 hrs lec, 3 hrs lab, field trip for which fee is assessed.

**Prerequisites:** jr st; GEO SCI 511(P).**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 520 Introduction to Paleontology**

4 cr. Undergraduate/Graduate.

General study of fossils and theoretical principles used in the study of paleontology. 3 hrs lec, 3 hrs lab, and field trips.

**Prerequisites:** jr st; GEO SCI 102 or GEO SCI 108.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 520G Introduction to Paleontology**

4 cr. Undergraduate/Graduate.

General study of fossils and theoretical principles used in the study of paleontology. 3 hrs lec, 3 hrs lab, and field trips.

**Prerequisites:** jr st; GEO SCI 102 or GEO SCI 108.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 525 Terroir: Geology in a Glass**

3 cr. Undergraduate/Graduate.

The geology, soil types, and climate of famous wine regions; factors that influence the production of fine wine.

**Prerequisites:** jr st; Geo Sci 100(P).**Course Rules:** No cr for students w/cr in Geo Sci 696 w/same topic.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 525G Terroir: Geology in a Glass**

3 cr. Undergraduate/Graduate.

The geology, soil types, and climate of famous wine regions; factors that influence the production of fine wine.

**Prerequisites:** jr st; Geo Sci 100(P).**Course Rules:** No cr for students w/cr in Geo Sci 696 w/same topic.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 545 X-Ray Analytical Methods**

3 cr. Undergraduate/Graduate.

Methods in x-ray diffractometry and spectrometry. Nature and generation of x-rays, collection and interpretation of powder diffraction patterns and elemental analysis using x-ray spectrometry.

**Prerequisites:** jr st; Geo Sci 301(P); satisfaction of OWC-A req; Chem 102(C).**General Education Requirements:** OWCB**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 545G X-Ray Analytical Methods**

3 cr. Undergraduate/Graduate.

Methods in x-ray diffractometry and spectrometry. Nature and generation of x-rays, collection and interpretation of powder diffraction patterns and elemental analysis using x-ray spectrometry.

**Prerequisites:** jr st; Geo Sci 301(P); satisfaction of OWC-A req; Chem 102(C).**General Education Requirements:** OWCB**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 558 Conducted Field Trip:**

1-3 cr. Undergraduate/Graduate.

Field trip to a classical geologic area. Preceded by a seminar.

**Prerequisites:** jr st; cons instr.**Course Rules:** May be retaken w/chg in topic to 9 cr max, only 3 cr of which may be applied toward geo sci major.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 558G Conducted Field Trip:**

1-3 cr. Undergraduate/Graduate.

Field trip to a classical geologic area. Preceded by a seminar.

**Prerequisites:** jr st; cons instr.**Course Rules:** May be retaken w/chg in topic to 9 cr max, only 3 cr of which may be applied toward geo sci major.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 562 Environmental Surface Hydrology**

3 cr. Undergraduate/Graduate.

Land-atmosphere interactions, modeling of runoff generation, and water movement in the vadose zone. 3 hrs lec.

**Prerequisites:** jr st; Math 232(P); or cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 562G Environmental Surface Hydrology**

3 cr. Undergraduate/Graduate.

Land-atmosphere interactions, modeling of runoff generation, and water movement in the vadose zone. 3 hrs lec.

**Prerequisites:** jr st; Math 232(P); or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 563 Field Methods in Hydrogeology**

4 cr. Undergraduate/Graduate.

Introduction to current equipment and methodology used in field evaluation of hydrologic systems. Well installation and monitoring, stream gauging, indirect surface observations. Lab, field trip for which fee is assessed.

**Prerequisites:** jr st; GEO SCI 463(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 563G Field Methods in Hydrogeology**

4 cr. Undergraduate/Graduate.

Introduction to current equipment and methodology used in field evaluation of hydrologic systems. Well installation and monitoring, stream gauging, indirect surface observations. Lab, field trip for which fee is assessed.

**Prerequisites:** jr st; GEO SCI 463(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 564G Field Methods in Hydrogeology**

4 cr. Undergraduate/Graduate.

Introduction to current equipment and methodology used in field evaluation of hydrologic systems. Well installation and monitoring, stream gauging, indirect surface observations. Lab, field trip for which fee is assessed.

**Prerequisites:** jr st; GEO SCI 463(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 614 Advanced Structural Geology**

3 cr. Undergraduate/Graduate.

Advanced analysis of deformation as applied to geological structures from microscopic through regional scales. Lec, field trip for which fee is assessed.

**Prerequisites:** jr st; Geo Sci 414(P); Math 231(C).

**Last Taught:** Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 614G Advanced Structural Geology**

3 cr. Undergraduate/Graduate.

Advanced analysis of deformation as applied to geological structures from microscopic through regional scales. Lec, field trip for which fee is assessed.

**Prerequisites:** jr st; Geo Sci 414(P); Math 231(C).

**Last Taught:** Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 635 Volcanology**

3 cr. Undergraduate/Graduate.

Why and when volcanoes erupt; predicting whether eruptions will be explosive or passive.

**Prerequisites:** jr st; Geo Sci 302(P) or cons instr.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 635G Volcanology**

3 cr. Undergraduate/Graduate.

Why and when volcanoes erupt; predicting whether eruptions will be explosive or passive.

**Prerequisites:** jr st; Geo Sci 302(P) or cons instr.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 637 Planetary Geology**

3 cr. Undergraduate/Graduate.

Advanced study of planetary geology, for advanced undergraduate and graduate students.

**Prerequisites:** jr st; Geo Sci 301(P) or Astron 211(P) or 400(P); completion of OWC-A GER (English 102 or equiv placement).

**Course Rules:** No cr for students w/cr in Geo Sci 697 w/same topic.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 637G Planetary Geology**

3 cr. Undergraduate/Graduate.

Advanced study of planetary geology, for advanced undergraduate and graduate students.

**Prerequisites:** jr st; Geo Sci 301(P) or Astron 211(P) or 400(P); completion of OWC-A GER (English 102 or equiv placement).

**Course Rules:** No cr for students w/cr in Geo Sci 697 w/same topic.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 638 Advanced Igneous Petrology**

3 cr. Undergraduate/Graduate.

Recent trends and applications in the fields of igneous petrology. Quantitative modelling of important petrologic processes. Critical reading of journal articles in petrology. Lec.

**Prerequisites:** jr st; Geo Sci 302(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 638G Advanced Igneous Petrology**

3 cr. Undergraduate/Graduate.

Recent trends and applications in the fields of igneous petrology. Quantitative modelling of important petrologic processes. Critical reading of journal articles in petrology. Lec.

**Prerequisites:** jr st; Geo Sci 302(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 655 Topics in Structure and Tectonics:**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** jr st; Geo Sci 414(P) or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 655G Topics in Structure and Tectonics:**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** jr st; Geo Sci 414(P) or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 694 Undergraduate Seminar:**

1-3 cr. Undergraduate.

Intensive study of a selected topic in a seminar format.

**Prerequisites:** jr st; cons instr.**Course Rules:** May be retaken w/chg in topic to 9 cr max, of which up to 3 cr may count in major requirements.**Last Taught:** Spring 2011, Fall 2010, Fall 2009, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 695 Internship in Geoscience**

1-3 cr. Undergraduate/Graduate.

An internship consistent with the student's plan of study in geosciences.

Requirements and evaluation determined by the department on an individual basis.

**Prerequisites:** jr st; cons dept.**Last Taught:** Summer 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 695G Internship in Geoscience**

1-3 cr. Undergraduate/Graduate.

An internship consistent with the student's plan of study in geosciences.

Requirements and evaluation determined by the department on an individual basis.

**Prerequisites:** jr st; cons dept.**Last Taught:** Summer 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 696 Topics in the Geological Sciences:**

1-3 cr. Undergraduate/Graduate.

Add'l prereqs announced in Schedule of Classes each time course offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 696G Topics in the Geological Sciences:**

1-3 cr. Undergraduate/Graduate.

Add'l prereqs announced in Schedule of Classes each time course offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 697 Seminar in the Geological Sciences:**

1-3 cr. Undergraduate/Graduate.

Specific credits and additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 697G Seminar in the Geological Sciences:**

1-3 cr. Undergraduate/Graduate.

Specific credits and additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 699 Advanced Independent Reading**

1-3 cr. Undergraduate.

Advanced independent geologic study under supervision of Geo Sci faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult supervising instr or dept chair.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic to 3 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 720 Methods in Paleomagnetism and Environmental Magnetism**

3 cr. Graduate.

This course is designed to provide students with a theoretical and practical foundation in paleomagnetism and environmental magnetism, including hands-on work with samples and real data.

**Prerequisites:** grad st; MATH 231(R); PHYSICS 210(R) or PHYSICS 122(R)**Course Rules:** Counts as a repeat of GEO SCI 696 with the same topic.

Not open to students w/ credit in GEO SCI 420.

**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 721 Conservation Paleontology**

3 cr. Graduate.

Application of theories and analytical tools of paleontology to biodiversity conservation.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of GEO SCI 696 with topic 'Conservation Paleontology'.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 722 Plant-Insect Interactions in Deep Time**

3 cr. Graduate.

Fossil record of interactions between plants and insects, focusing primarily on herbivory and pollination; basic overview of the fossil record and evolutionary history of plants and insects.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of GEO SCI 696 with topic 'Plant and Insect Relationships in Deep Time'.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 730 Modelling Techniques for Hydrogeology**

3 cr. Graduate.

Study and application of modelling techniques in hydrogeology. Includes finite difference and finite element techniques for groundwater flow, contaminant transport, and geochemistry.

**Prerequisites:** grad st; Geo Sci 463; knowledge of fortran or equiv; cons instr.**Last Taught:** Spring 2023, Spring 2021, Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 740 Carbonate Sedimentology**

3 cr. Graduate.

Depositional processes, environments and stratigraphic analysis of carbonate rocks. Lec, lab, field trip, for which fee is assessed.

**Prerequisites:** grad st; Geo Sci 511 or equiv.**Course Rules:** Field trip for which fee is assessed.**Last Taught:** Fall 2023, Fall 2019, Fall 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GEO SCI 749 Biogeochemistry of Soils**

3 cr. Graduate.

Biogeochemical processes in soils and their impact on water quality.

**Prerequisites:** graduate standing and GEO SCI 464(P) or consent of instructor.**Course Rules:** 3 hrs lec.**Last Taught:** Spring 2020, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 750 Contaminant Hydrogeology**

3 cr. Graduate.

Transport and fate of contaminants in aquifers, aquitards, and unsaturated geologic materials.

**Prerequisites:** grad st; Geo Sci 464(C).**Last Taught:** Fall 2022, Fall 2019, Fall 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 790 Graduate Seminar in the Geological Sciences:**

1-3 cr. Graduate.

Add'l prereqs announced in schedule of classes each time course offered.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2015, Spring 2006, Spring 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 888 Candidate for Degree**

0 cr. Graduate.

Available for grad students who must meet minimum cr load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2017, Fall 2016, Summer 2016, Summer 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 990 Master's Thesis**

1-8 cr. Graduate.

**Prerequisites:** grad st; cons instr & completed thesis proposal.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 997 Doctoral Externship**

1-12 cr. Graduate.

**Prerequisites:** grad st; admis to candidacy for Ph.D.**Last Taught:** Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 998 Doctoral Dissertation**

1-12 cr. Graduate.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GEO SCI 999 Advanced Independent Reading**

1-4 cr. Graduate.

Independent geologic study.

**Prerequisites:** grad st & cons instr.**Course Rules:** Retakable to 4 cr max.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## German (GERMAN)

**GERMAN 101 First-Semester German**

4 cr. Undergraduate.

Introductory course for students who have had no previous work in German.

**Prerequisites:** 0-2 yrs of HS German or level 1 score on German placement test.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GERMAN 102 Second-Semester German**

4 cr. Undergraduate.

Continuation of German 101.

**Prerequisites:** grade of C or better in German 101(P) or level 2 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GERMAN 111 German Life and Civilization: Part I**

3 cr. Undergraduate.

The historical and cultural heritage of Germany from earliest times to 1806: major figures and developments in German art, literature, music, philosophy, and language. In English.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GERMAN 112 German Life and Civilization: Part II:**

3 cr. Undergraduate.

The historical and cultural heritage of Germany from 1806 to the present: major figures and developments in German art, literature, music, education, and philosophy. In English.

**Prerequisites:** none.**Course Rules:** Not retakable for credit.**General Education Requirements:** HU**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GERMAN 145 Views of Germany:**

3 cr. Undergraduate.

In-depth study of selected aspects of German civilization as reflected in literature.

**Prerequisites:** none.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GERMAN 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** HU**Last Taught:** Fall 2002, Fall 2001, Fall 2000, Fall 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 197 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Spring 2023, Summer 2022, Summer 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 199 Independent Study**

1-3 cr. Undergraduate.

**Prerequisites:** soph st; 2.0 GPA, consent of instructor, and department chair.

**Course Rules:** May not be retaken.

**Last Taught:** Fall 2023, Spring 2014, Fall 2013, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 203 Third-Semester German**

3 cr. Undergraduate.

Continuation of German 102.

**Prerequisites:** grade of C or better in German 102(P) or level 3 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 204 Fourth-Semester German**

3 cr. Undergraduate.

Continuation of GERMAN 203. Grammar structures; vocabulary development through reading, writing, and speaking about subjects in students' fields of study; inter- and cross-disciplinary studies.

**Prerequisites:** grade of C or better in GERMAN 203(P) or level 4 score on German placement test. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 289 Internship in German, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of German in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in German; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Fall 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2022, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2000, Fall 1999, Summer 1997, Fall 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 331 German Grammar in Practice**

3 cr. Undergraduate.

Review of major structures in German grammar; application of those structures through writing and speaking. Emphasis on written accuracy and proficiency.

**Prerequisites:** GERMAN 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 332 Presentation and Composition**

3 cr. Undergraduate.

Practice in presentation and composition, with emphasis on issues in post-war and contemporary German culture, written accuracy, and proficiency.

**Prerequisites:** German 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

**General Education Requirements:** HU

**Last Taught:** Fall 2022, Spring 2022, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 333 Texts and Contexts**

3 cr. Undergraduate.

Reading and analysis of literary and non-literary texts in German; introduction to basic textual analysis skills.

**Prerequisites:** GERMAN 331(P) or GERMAN 332(P).

**General Education Requirements:** HU

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 334 Introduction to German Studies**

3 cr. Undergraduate.

Survey of German literature and culture from 1750 to the present.

**Prerequisites:** GERMAN 331(P) or GERMAN 332(P).

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 341 Undergrad Seminar in German-Amer Studies: Germans in Wisconsin & Milwaukee**

3 cr. Undergraduate.

Student projects and presentations on the various aspects of the German heritage in Wisconsin and Milwaukee.

**Prerequisites:** jr st.

**Course Rules:** Required of ethnic studies majors with a German-American concentration.

**Last Taught:** Fall 2016, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**GERMAN 360 German for the Global World**

3 cr. Undergraduate.

Vocabulary, writing, reading, and oral German skills needed for the global world.

**Prerequisites:** GERMAN 331(P) or GERMAN 332(P).

**Last Taught:** Fall 2021, Fall 2019, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 371 German Phonetics**

3 cr. Undergraduate.

Focus on English-German contrasts and pronunciation difficulties; phonetic transcription; drills in pronunciation.

**Prerequisites:** junior standing or consent of instructor; GERMAN 331(P) or GERMAN 332(P).

**Course Rules:** Previously GERMAN 671.

**Last Taught:** Fall 2018, Fall 2016, Fall 2014, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 397 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/ change in topic.

**Last Taught:** UWinterIM 2023, Spring 2022, UWinterIM 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 415 Topics in German Studies:**

3 cr. Undergraduate/Graduate.

Exploration of selected topics in German Studies. Critical analysis of a variety of texts and contexts.

**Prerequisites:** GERMAN 331(P) or GERMAN 332(P).

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 415G Topics in German Studies:**

3 cr. Undergraduate/Graduate.

Exploration of selected topics in German Studies. Critical analysis of a variety of texts and contexts.

**Prerequisites:** GERMAN 331(P) or GERMAN 332(P).

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 425 Introduction to German Translation**

3 cr. Undergraduate.

Introduction to skills necessary to professional translation from German to English, including text analysis, summarizing texts, and terminology research.

**Prerequisites:** GERMAN 331(P) or GERMAN 332(P).

**Last Taught:** Fall 2022, Fall 2019, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 456 German Literature from the Turn of the Century to World War II**

3 cr. Undergraduate.

Major literary movements, writers, and works of the first half of the twentieth century; expressionism, 'Neue Sachlichkeit,' and exile literature.

**Prerequisites:** GERMAN 333(P) or GERMAN 334(P).

**Last Taught:** Spring 2016, Fall 2010, Fall 2006, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 460 German Literature from 1945 to the Present**

3 cr. Undergraduate/Graduate.

Literary writers and works of the German-speaking countries from 1945 to the present.

**Prerequisites:** GERMAN 333(P) or GERMAN 334(P).

**Last Taught:** Fall 2014, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 460G German Literature from 1945 to the Present**

3 cr. Undergraduate/Graduate.

Literary writers and works of the German-speaking countries from 1945 to the present.

**Prerequisites:** GERMAN 333(P) or GERMAN 334(P).

**Last Taught:** Fall 2014, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 474 German for Professional Purposes**

3 cr. Undergraduate/Graduate.

Language and structures of Germany's professional world. Historical, political, legal, economic, social and cultural forces shaping Germany today.

**Prerequisites:** jr st; GERMAN 332(P) and completion of 3 cr upper-division German electives.

**Last Taught:** Spring 2023, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 474G German for Professional Purposes**

3 cr. Undergraduate/Graduate.

Language and structures of Germany's professional world. Historical, political, legal, economic, social and cultural forces shaping Germany today.

**Prerequisites:** jr st; GERMAN 332(P) and completion of 3 cr upper-division German electives.

**Last Taught:** Spring 2023, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 475 Seminar on the History and Structure of German**

3 cr. Undergraduate/Graduate.

Historical development of the German language from its beginnings to the present.

**Prerequisites:** jr st; GERMAN 332(P) and completion of 3 cr upper-division German electives.

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 475G Seminar on the History and Structure of German**

3 cr. Undergraduate/Graduate.

Historical development of the German language from its beginnings to the present.

**Prerequisites:** jr st; GERMAN 332(P) and completion of 3 cr upper-division German electives.

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 478 Reading Older German Handwriting**

3 cr. Undergraduate.

Study of German writing styles typical in older documents. Analysis and transliteration of birth certificates, letters, and family histories along with other documents of cultural importance.

**Prerequisites:** junior standing; GERMAN 332(P); and completion of at least 3 cr upper-division GERMAN elective coursework.

**Course Rules:** Previously GERMAN 488.

**Last Taught:** Spring 2021, Spring 2017, Spring 2014, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 483 Seminar on German Studies:**

3 cr. Undergraduate/Graduate.

In-depth study of major themes, genres, or authors in German-language literature and culture; particular theoretical ideas and methods applied to selected texts.

**Prerequisites:** jr st; GERMAN 332(P); and completion of at least 3 cr upper-division German electives.

**Course Rules:** May be retaken w/ change in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 483G Seminar on German Studies:**

3 cr. Undergraduate/Graduate.

In-depth study of major themes, genres, or authors in German-language literature and culture; particular theoretical ideas and methods applied to selected texts.

**Prerequisites:** jr st; GERMAN 332(P); and completion of at least 3 cr upper-division German electives.

**Course Rules:** May be retaken w/ change in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 484 Seminar on Themes and Motifs in German Literature:**

3 cr. Undergraduate/Graduate.

Recurring themes, patterns, and figures in German-language literature.

**Prerequisites:** jr st; GERMAN 332(P); and completion of at least 3 cr upper-division German electives.

**Course Rules:** May be retaken w/ change in topic to 9 cr max.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 484G Seminar on Themes and Motifs in German Literature:**

3 cr. Undergraduate/Graduate.

Recurring themes, patterns, and figures in German-language literature.

**Prerequisites:** jr st; GERMAN 332(P); and completion of at least 3 cr upper-division German electives.

**Course Rules:** May be retaken w/ change in topic to 9 cr max.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 489 Internship in German, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of German in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** German 332(426)(P), 333(P), & 334(P); 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Last Taught:** Fall 2022, Fall 2018, Spring 2016, Summer 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2023, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2023, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2018, Fall 2016, Spring 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 597 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 597G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 697 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 697G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GERMAN 699 Independent Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a German faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult the German program coord.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Global Studies (GLOBAL)

**GLOBAL 101 Introduction to Global Studies I: People and Politics**

3 cr. Undergraduate.

Fundamental aspects of globalization; how economic, political, and cultural globalism affects contemporary societies.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 102 Introduction to Global Languages and Cultures**

3 cr. Undergraduate.

Introduction to key ideas surrounding the ways in which language and literature intersect with culture, gender, and power.

**Prerequisites:** none.

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 192 First-Year Seminar.**

3 cr. Undergraduate.

Specific topics announced in Schedule of Classes each time course is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 194 First-Year Seminar.**

3 cr. Undergraduate.

Selected topics announced in Schedule of Classes each time course is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** NS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 201 Introduction to Global Studies II: Economics and the Environment**

3 cr. Undergraduate.

Link between International trade and environmental change; conditions related to global economy; political impact of environmental change; human dimensions of international trade and environmental change.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 202 Introduction to Global Studies III: Globalization and Technology**

3 cr. Undergraduate.

Globalization and information technology: history of and current trends in global transfer of technology; contemporary issues in information technology; media convergences and divisions.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 203 Introduction to Peace and Conflict Studies**

3 cr. Undergraduate.

Theories and approaches for understanding and managing conflict; skills and strategies for building peace.

**Prerequisites:** none.

**Course Rules:** GLOBAL 203 and PEACEST 203 are jointly offered and count as repeats of one another. Previously PEACEST 201.

**General Education Requirements:** SS

**Last Taught:** Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 289 Internship in Global Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** GLOBAL 101(P); 2.25 gpa; cons supervising faculty member.

**Course Rules:** Min 40 hrs in internship required for 1 cr. Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** Retakable with change in topic.

**Last Taught:** Fall 2023, Summer 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Spring 2013, Fall 2012, Spring 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 301 Introduction to Global Health**

3 cr. Undergraduate.

Overview of the broad field of global health, using the United Nations (U.N.) Sustainable Development Goals as a framework for the class.

**Prerequisites:** none.

**Course Rules:** GLOBAL 301 and NURS 301 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 311 Contexts for Global Management**

3 cr. Undergraduate.

How globalization can impact the success or failure of business decisions; how business decisions can impact globalization; management in a global context.

**Prerequisites:** junior standing.**Last Taught:** Fall 2021, Fall 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 351 Language, Media, and Social Practice in Global Communications**

3 cr. Undergraduate.

Explores the impact of global communications on languages and cultures; examines implications of globalization for technologically mediated forms of communication and related social practices.

**Prerequisites:** junior standing.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 361 Environment and Sustainability**

3 cr. Undergraduate/Graduate.

Different answers to 'what is sustainability?' given by ecological and social thinkers.

**Prerequisites:** junior standing.**Last Taught:** Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 361G Environment and Sustainability**

3 cr. Undergraduate/Graduate.

Different answers to 'what is sustainability?' given by ecological and social thinkers.

**Prerequisites:** junior standing.**Last Taught:** Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 362 System Failure: Globalization and Language Extinction**

3 cr. Undergraduate/Graduate.

Role of globalization in the projected extinction of a large number of the world's languages within the next century.

**Prerequisites:** junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.**Course Rules:** AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2014, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 362G System Failure: Globalization and Language Extinction**

3 cr. Undergraduate/Graduate.

Role of globalization in the projected extinction of a large number of the world's languages within the next century.

**Prerequisites:** junior standing; a course in social science; a course in linguistic anthropology; or consent of instructor.**Course Rules:** AIS 362, ANTHRO 362, & GLOBAL 362 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2014, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 371 Rethinking Global Security**

3 cr. Undergraduate.

Basic concepts for international security in the age of globalization; sources of security and insecurity from a historical perspective.

**Prerequisites:** junior standing.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 381 Honors Seminar in the Social Sciences:**

3 cr. Undergraduate.

Selected topics in Global Studies from a social sciences perspective.

**Prerequisites:** sophomore standing; HONORS 200(P); and consent of Honors College director.**Course Rules:** May be retaken with change in topic to 9 cr max.**General Education Requirements:** SS**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 383 Environmental Political Theory**

3 cr. Undergraduate.

Environmental political theory from a global perspective, emphasizing the interlinked nature of security and sustainability.

**Prerequisites:** junior standing.**Course Rules:** GLOBAL 383 and POL SCI 383 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 391 Black Lives Matter: A Global Comparative Study**

3 cr. Undergraduate.

Internationally focused comparative course on the Black Lives Matter (BLM) Movement in the United States and abroad, including the history of BLM, and how it has developed and been practiced in multiple locales.

**Prerequisites:** sophomore standing.**Last Taught:** Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 421 Cities in the Global Economy**

3 cr. Undergraduate.

How and why globalization leaves different imprints on cities; how cities in turn constantly restructure the form of the global economy.

**Prerequisites:** junior standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 439 Culture and Global Health**

3 cr. Undergraduate/Graduate.

Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease.

**Prerequisites:** junior standing.**Course Rules:** ANTHRO 439 & GLOBAL 439 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 439G Culture and Global Health**

3 cr. Undergraduate/Graduate.

Contemporary global health through the lens of cultural anthropology and related social sciences; local communities' response to globally-directed intervention into disease.

**Prerequisites:** junior standing.

**Course Rules:** ANTHRO 439 & GLOBAL 439 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 442 Humanitarianism in Global Perspective**

3 cr. Undergraduate/Graduate.

Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking.

**Prerequisites:** junior standing; previous completion of a social science course.

**Course Rules:** ANTHRO 442 & GLOBAL 442 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2019, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 442G Humanitarianism in Global Perspective**

3 cr. Undergraduate/Graduate.

Anthropological study of global humanitarianism through specific case studies. Themes include politics of representation, intervention, war, genocide, trauma, child soldiers, and human trafficking.

**Prerequisites:** junior standing; previous completion of a social science course.

**Course Rules:** ANTHRO 442 & GLOBAL 442 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2019, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 443 Medicine and Pharmaceuticals in the Global Age**

3 cr. Undergraduate/Graduate.

The practices of medicine and the distribution of pharmaceuticals globally.

**Prerequisites:** junior standing; ANTHRO 440(R).

**Course Rules:** ANTHRO 443 & GLOBAL 443 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 443G Medicine and Pharmaceuticals in the Global Age**

3 cr. Undergraduate/Graduate.

The practices of medicine and the distribution of pharmaceuticals globally.

**Prerequisites:** junior standing; ANTHRO 440(R).

**Course Rules:** ANTHRO 443 & GLOBAL 443 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 446 The Re-Configuring Global Order**

3 cr. Undergraduate/Graduate.

Contemporary and past global forces re-configuring our world systems and economic and political orders.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 446G The Re-Configuring Global Order**

3 cr. Undergraduate/Graduate.

Contemporary and past global forces re-configuring our world systems and economic and political orders.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 447 The Global Politics of Human Rights**

3 cr. Undergraduate/Graduate.

Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.

**Prerequisites:** junior standing; ANTHRO 102(R).

**Course Rules:** ANTHRO 447 & GLOBAL 447 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 447G The Global Politics of Human Rights**

3 cr. Undergraduate/Graduate.

Historical and theoretical context of human rights discourse; anthropology of human rights; case studies of efforts to protect human rights in particular social settings.

**Prerequisites:** junior standing; ANTHRO 102(R).

**Course Rules:** ANTHRO 447 & GLOBAL 447 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 451 Access, Security, and Intercultural Contexts in Global Communications**

3 cr. Undergraduate.

Information equity and access in a globalized context, including issues of security, intercultural communication, and current uses of communication technologies.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2021, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 461 The Politics and Policy of Sustainability**

3 cr. Undergraduate/Graduate.

Principles of environmental policy, governance, and management for global sustainability.

**Prerequisites:** junior standing; CES 210(P) or consent of instructor.

**Course Rules:** CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 461G The Politics and Policy of Sustainability**

3 cr. Undergraduate/Graduate.

Principles of environmental policy, governance, and management for global sustainability.

**Prerequisites:** junior standing; CES 210(P) or consent of instructor.

**Course Rules:** CES 461, FRSHWTR 461, & GLOBAL 461 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 471 Strategies for Realizing Security in Global Contexts**

3 cr. Undergraduate.

Present-day strategies of those working to create or effect greater security in a global context.

**Prerequisites:** junior standing.**Last Taught:** Fall 2019, Fall 2016, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 488 Domestic Internship in Global Studies**

1-9 cr. Undergraduate.

Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate work setting.

**Prerequisites:** junior standing; 6 cr Global 300-level or above; 2.5 GPA; and consent of supervising faculty member.**Course Rules:** Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 9 cr max.**Last Taught:** Fall 2023, Summer 2021, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 489 International Internship in Global Studies, Upper Division**

1-9 cr. Undergraduate.

Application of basic principles of global studies in a business, organizational, educational, political, or other appropriate work setting.

**Prerequisites:** junior standing; 6 cr Global 300-level or above; 2.5 GPA; and consent of supervising faculty member.**Course Rules:** Credit granted for academic work based on 40 hours in internship for each credit. Retakable to 9 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.**Course Rules:** Retakable with change in topic.**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** junior standing; add'l prereqs may be assigned to specific topic.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Fall 2021, Fall 2008, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 541 Cross-Cultural Management**

3 cr. Undergraduate.

Business cultures around the world; the impact of cultural differences in international management and negotiations.

**Prerequisites:** jr st; BUS ADM 330(P); admis to Bus Adm major or declared Global Studies program.**Course Rules:** BUS ADM 541 & GLOBAL 541 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 550 Global Studies Integrated Capstone:**

3 cr. Undergraduate/Graduate.

Integration of coursework for students in the Global Communications, Health, Security, Sustainability, and Urban Development tracks.

**Prerequisites:** jr st; satisfaction of OWC-A GER; declared Global Studies major or cons instr.**Course Rules:** May be taken w/chg in topic to 6 cr max.**General Education Requirements:** OWCB**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 550G Global Studies Integrated Capstone:**

3 cr. Undergraduate/Graduate.

Integration of coursework for students in the Global Communications, Health, Security, Sustainability, and Urban Development tracks.

**Prerequisites:** jr st; satisfaction of OWC-A GER; declared Global Studies major or cons instr.**Course Rules:** May be taken w/chg in topic to 6 cr max.**General Education Requirements:** OWCB**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 575 Global Health: Ethics and Human Rights**

3 cr. Undergraduate.

Explores the ethics and human rights issues related to disparities in financial, educational, technological, environmental, and political resources available to support healthy populations across the globe.

**Prerequisites:** none.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 597 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying or interning abroad to receive course credit at appropriate level.

**Prerequisites:** junior standing; Global Studies or MSP advisor approval.**Course Rules:** Retakable with change in topic.**Last Taught:** UWinteriM 2024, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 597G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying or interning abroad to receive course credit at appropriate level.

**Prerequisites:** junior standing; Global Studies or MSP advisor approval.**Course Rules:** Retakable with change in topic.**Last Taught:** UWinteriM 2024, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**GLOBAL 620 Global Food Security and Systems**

3 cr. Undergraduate/Graduate.

In-depth investigation of global food systems and their impact on food security and development.

**Prerequisites:** junior standing or greater, or consent of instructor.**Course Rules:** GLOBAL 620 and NURS 620 are jointly offered and count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 690 Global Health Governance: Key Players, Financing and Challenges**

3 cr. Undergraduate/Graduate.

Historical evolution and mandate of global health institutions; changing role of key global actors in health governance; challenges and successes in responding to global health crises and pandemics.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** GLOBAL 690 and NURS 690 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 690G Global Health Governance: Key Players, Financing and Challenges**

3 cr. Undergraduate/Graduate.

Historical evolution and mandate of global health institutions; changing role of key global actors in health governance; challenges and successes in responding to global health crises and pandemics.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** GLOBAL 690 and NURS 690 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 697 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying or interning abroad to receive course credit at appropriate level.

**Prerequisites:** junior standing; Global Studies or MSP advisor approval.

**Course Rules:** Retakable with change in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 697G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying or interning abroad to receive course credit at appropriate level.

**Prerequisites:** junior standing; Global Studies or MSP advisor approval.

**Course Rules:** Retakable with change in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GLOBAL 699 Advanced Independent Study**

1-3 cr. Undergraduate.

See Independent Study in current catalog. For further information, consult Global Studies Coordinator.

**Prerequisites:** jr st; 2.5 gpa; writ cons instr, prog coord, & asst dean for SAS.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2016, Fall 2013, Summer 2013, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Graduate Studies (GRAD)

**GRAD 801 Preparing Future Faculty & Professionals:**

1 cr. Graduate.

Content varies. Includes seminars, workshops, and discussions to better understand institutional expectations, improve success in graduate studies, and help pursue academic or professional career paths.

**Prerequisites:** grad st.

**Course Rules:** May be retaken to 3 cr max with change in topic. S/U only.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GRAD 803 Teaching & Learning in College: Reflections on Theory and Practice**

1 cr. Graduate.

Teaching and learning theories and strategies; reflection on personal beliefs and expectations about the role of teacher and student and understanding of professional practice and development in higher education.

**Prerequisites:** grad st.

**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Greek (GREEK)

**GREEK 103 First Semester Greek**

4 cr. Undergraduate.

Systematic introduction to the morphology, syntax, and vocabulary of ancient Greek.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 104 Second Semester Greek**

4 cr. Undergraduate.

Continuation of Greek 103; systematic introduction to the morphology, syntax, and vocabulary of Greek.

**Prerequisites:** Greek 103(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2018, Fall 2013, Spring 2009, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 205 Third Semester Greek**

4 cr. Undergraduate.

Continuation of Greek 104; systematic introduction to the morphology, syntax, and vocabulary of Greek.

**Prerequisites:** Greek 104(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro crs).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 289 Internship in Greek, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Greek in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Greek; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 306 Readings in Ancient Greek Literature:**

3 cr. Undergraduate.

Reading of texts of Greek literature, with emphasis on morphology, syntax, and vocabulary.

**Prerequisites:** GREEK 205(P) or equivalent; equivalent HS prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (12 retro crs).

**Course Rules:** Counts as repeat of only 1 cr of GREEK 304 regardless of the number of times GREEK 306 is taken. May be retaken with change in topic; no max cr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 489 Internship in Greek, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of Greek in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Greek; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 501 Readings in Classical Greek Prose:**

3 cr. Undergraduate/Graduate.

Extensive reading in a major author, or in related authors, of ancient Greek prose; e.g., Herodotus, Thucydides, Plato, the Attic Orators, Aristotle, Lucian.

**Prerequisites:** junior standing, GREEK 306(P) or equivalent, and equivalent high school prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2013, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 501G Readings in Classical Greek Prose:**

3 cr. Undergraduate/Graduate.

Extensive reading in a major author, or in related authors, of ancient Greek prose; e.g., Herodotus, Thucydides, Plato, the Attic Orators, Aristotle, Lucian.

**Prerequisites:** junior standing, GREEK 306(P) or equivalent, and equivalent high school prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2013, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 502 Readings in Ancient Greek Poetry:**

3 cr. Undergraduate/Graduate.

Extensive reading in a major author, or related authors, of ancient Greek poetry; e.g., Homer, the Greek lyric poets, the Attic tragedians, Aristophanes, Menander, Theocritus.

**Prerequisites:** jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 502G Readings in Ancient Greek Poetry:**

3 cr. Undergraduate/Graduate.

Extensive reading in a major author, or related authors, of ancient Greek poetry; e.g., Homer, the Greek lyric poets, the Attic tragedians, Aristophanes, Menander, Theocritus.

**Prerequisites:** jr st; Greek 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**GREEK 699 Directed Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Classics prog coord.

**Prerequisites:** jr st; 2.0 GPA; instructor consent, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Spring 2019, Fall 2013, Fall 2012, Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Health Care Administration (HCA)

**HCA 203 Human Life Cycle**

3 cr. Undergraduate.

Views of leading theorists and recent research in the field of human development will be presented with emphasis on biopsychosocial aspects of the five major stages of development from prenatal through senescence.

**Prerequisites:** soph st or cons instr.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**HCA 212 Drugs Used and Abused**

3 cr. Undergraduate.

An introduction to the mechanisms, actions, uses and abuses of selected licit and illicit drugs from a public health perspective.

**Prerequisites:** soph st or cons instr.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 220 Leading Healthcare Professionals**

3 cr. Undergraduate.

Introduction to effective healthcare leadership of self, others, and groups in complex healthcare settings. Emphasis on leader understanding own temperament and values and healthcare context.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 220X Leading Healthcare Professionals**

3 cr. Undergraduate.

Introduction to effective healthcare leadership of self, others, and groups in complex healthcare settings. Emphasis on leader understanding own temperament and values and healthcare context.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective**

3 cr. Undergraduate.

Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.

**Prerequisites:** soph st or cons instr.

**Course Rules:** BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 249 Writing for Professional Development in Health Administration**

3 cr. Undergraduate.

Administrative writing and communication for professional development in the health professions, focused the preparation of health care administration students for a professional work setting.

**Prerequisites:** Satisfaction of OWC-A.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 260 Gerontology for Health Care Administrators**

3 cr. Undergraduate.

The administrator's responsibility for improving resident quality of life in long-term care organizations through an overview of sociological, psychological, and biological aspects of aging.

**Prerequisites:** none.

**Last Taught:** Spring 2013, Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 290 Selected Topics in Health Information Administration:**

1-3 cr. Undergraduate.

Content to be determined as instructional need arises.

**Prerequisites:** none, except as specified for topic.

**Course Rules:** May be retaken for cr w/chg in topic.

**Last Taught:** Spring 2010, Fall 2009, Fall 2008, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 297 Study Abroad**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance to Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2018, Fall 2010, Summer 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 300 Professional Development Seminar for Health Administration Students**

1 cr. Undergraduate.

This course prepares health care administration undergraduate students to explore related career options and to succeed in obtaining internships, jobs and/or graduate school admission.

**Prerequisites:** junior standing and admitted to HCA major; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 307 Epidemiology for the Health Sciences**

3 cr. Undergraduate.

Introduction to the etiology and distribution of disease and risk factors associated with the determination of disease; applications of epidemiology to the health science professions.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 333 Health Organizations Professional Practice Standards**

2 cr. Undergraduate.

Overview of regulatory statutes, licensure requirements, accreditation and other professional practice standards that affect healthcare organizations.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 340 Healthcare Process Measurement**

3 cr. Undergraduate.

Compilation and presentation of healthcare statistics; use of statistical analysis and graphic presentation of data to examine healthcare processes and support decision-making.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 361 Post-Acute Care and Management**

3 cr. Undergraduate.

Examines healthcare services provided after leaving a hospital; emphasizes the management and coordination of these services and organizations that provide them, to ensure optimal transitions between healthcare services and settings.

**Prerequisites:** jr st or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 362 Legal and Regulatory Aspects of Long-Term Care Facilities**

3 cr. Undergraduate.

Legal and regulatory environment of the nursing facility. Reviews state and federal requirements and overviews the survey process designed to protect resident well-being

**Prerequisites:** HCA 311(C) & 361(P); or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 400 Healthcare Marketing**

3 cr. Undergraduate.

Examines basic marketing principles and applies them to the healthcare field; analyzes the diversity of the healthcare consumer's definition of care, and the need to distinguish between individual patients versus corporate America as customer.

**Prerequisites:** junior standing or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 411 Disease Classification Systems I**

3 cr. Undergraduate.

Disease classification systems with emphasis on hospital applications.

**Prerequisites:** HCA 222(HIA 222)(P) or equiv; or cons instr.**Last Taught:** Fall 2003, Fall 2002, Fall 2001, Fall 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 421 Operations Management in Healthcare Organizations**

3 cr. Undergraduate.

Application of operations management principles to management of healthcare organizations. Emphasis on tools to plan, organize and control.

**Prerequisites:** BUS ADM 350(P) or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 422 Human Resource Management in Healthcare Organizations**

3 cr. Undergraduate.

Introduction of human relation concepts as it applies to the health care organizations. Emphasis on the application of management responsibilities.

**Prerequisites:** junior standing or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 423 Health Information Administration in Specialized Healthcare Facilities**

4 cr. Undergraduate.

Study of health information systems in ambulatory, long-term, home health, and other non-hospital settings; site visits and site-specific projects.

**Prerequisites:** sr st in HCA or cons instr.**Last Taught:** Spring 2003, Spring 2002, Spring 2001, Spring 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 430 Patient Registration Management**

3 cr. Undergraduate.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 444 Introduction to Text Retrieval and Its Applications in Biomedicine**

3 cr. Undergraduate/Graduate.

Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.

**Prerequisites:** junior standing; COMPSCI 351(P) or HCA 442(P).**Course Rules:** COMPSCI 444 and HCA 444 are jointly offered and count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 444G Introduction to Text Retrieval and Its Applications in Biomedicine**

3 cr. Undergraduate/Graduate.

Introduction to text retrieval, text classification and their biomedical applications; topics include: indexing, query processing, and document retrieval methods.

**Prerequisites:** junior standing; COMPSCI 351(P) or HCA 442(P).**Course Rules:** COMPSCI 444 and HCA 444 are jointly offered and count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 450 Healthcare Quality Management**

3 cr. Undergraduate.

Theory and development of quality assessment programs in healthcare for patient care improvement; focus on outcomes assessment, operations assessment and improvement; governance, administration, medical staff involvement including quality, patient experience, safety, risk and utilization management.

**Prerequisites:** KIN 270(P) or MTHSTAT 215(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 460 Healthcare Reimbursement Systems and Policies**

3 cr. Undergraduate.

History and functioning of healthcare reimbursement systems. Emphasis on the policies and procedures of government and major third party systems.

**Prerequisites:** HCA 421(P) or consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 480 Competency-Based Internship in Long-Term Care Facilities**

3 cr. Undergraduate.

A supervised clinical practicum serving as the capstone fieldwork experience for HCA majors obtaining a sub-major in long-term care administration.

**Prerequisites:** HCA 362(C) & cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 497 Study Abroad**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance to Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** UWinterIM 2019, Summer 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 497G Study Abroad**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance to Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** UWinterIM 2019, Summer 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 502 Healthcare Delivery Systems: National and International Perspectives**

3 cr. Undergraduate.

An analysis of health delivery systems in the U.S. and abroad.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 520 Clinical Practicum**

3 cr. Undergraduate.

Assignments to local health information centers for practical experience; weekly meetings and projects also required.

**Prerequisites:** sr st in HCA.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 521 Advanced Systems Thinking and Strategy for Healthcare Leaders**

3 cr. Undergraduate.

Provides a view of organizational theory and strategy with applications to the institutional operations in the healthcare industry; capstone course providing an in-depth view of systems theory, strategy formulation and implementation in healthcare leadership.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 540 Health Information Professional Practice**

4 cr. Undergraduate.

Four-week professional practice working with and under supervision of an information manager. Pre-practice meetings and post-practice seminar.

**Prerequisites:** sr st in HCA, HCA 520 (HIA 520)(P).

**Last Taught:** Spring 2022, Fall 2021, Summer 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 541 Healthcare Information Systems Analysis and Design**

3 cr. Undergraduate/Graduate.

Overview of health facility computerized information systems. Information systems theory, systems analysis, and implementation of computer systems from a managerial/planning perspective.

**Prerequisites:** junior standing or greater; or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 541G Healthcare Information Systems Analysis and Design**

3 cr. Undergraduate/Graduate.

Overview of health facility computerized information systems. Information systems theory, systems analysis, and implementation of computer systems from a managerial/planning perspective.

**Prerequisites:** junior standing or greater; or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 542 Healthcare Database Design and Management**

3 cr. Undergraduate/Graduate.

Study of database structure, data models, and operations issues. Emphasis on data security, integrity, integration, and access. Healthcare database applications.

**Prerequisites:** jr st, HCA 541(P); or grad st.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 542G Healthcare Database Design and Management**

3 cr. Undergraduate/Graduate.

Study of database structure, data models, and operations issues. Emphasis on data security, integrity, integration, and access. Healthcare database applications.

**Prerequisites:** jr st, HCA 541(P); or grad st.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 580 Health Care Administration Internship**

4 cr. Undergraduate.

Capstone course/Internship experience with administrators in health care agencies and health-related organizations (e.g., hospitals/health systems, ambulatory care/group practices, managed care, rehabilitation facilities, residential/long-term care).

**Prerequisites:** senior standing in HCA program or consent of instructor; consent of internship coordinator.

**Course Rules:** May be retaken to max of 12 cr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 590 Topics in Health Sciences:**

1-3 cr. Undergraduate/Graduate.

Topics of current interest within the field of health sciences. The theme for each semester's offering will be posted.

**Prerequisites:** junior standing; consent of instructor for graduate credit.

**Course Rules:** May be retaken with change in topic to max of 9 cr for grad students.

**Last Taught:** Fall 2018, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 590G Topics in Health Sciences:**

1-3 cr. Undergraduate/Graduate.

Topics of current interest within the field of health sciences. The theme for each semester's offering will be posted.

**Prerequisites:** junior standing; consent of instructor for graduate credit.

**Course Rules:** May be retaken with change in topic to max of 9 cr for grad students.

**Last Taught:** Fall 2018, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 699 Advanced Independent Study:**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** U: jr st, 2.5 gpa, writ cons instr; G: grad st; writ cons instr.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 699G Advanced Independent Study:**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** U: jr st, 2.5 gpa, writ cons instr; G: grad st; writ cons instr.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 800 Value Based Care Models**

3 cr. Graduate.

Overview of the major issues related to design, function, management, regulation, and evaluation of health insurance and managed care plans and implications for population health management.

**Prerequisites:** graduate standing and admission to MHA major or admission to Value-Based Healthcare certificate; or consent of instructor.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 801 Design of Health and Human Service Systems**

3 cr. Graduate.

Develop and apply skills in analysis, synthesis and evaluation of systemic components necessary to delivery health care services in the United States of America. Counts as repeat of HCA 590 of same topic.

**Prerequisites:** grad st; admis to MHA major; or cons instr**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 813 Health Regulatory Policy and Politics**

3 cr. Graduate.

Social and political foundations of healthcare regulations including legal factors affecting patient/client care, operations, the administration of healthcare facilities and systems.

**Prerequisites:** grad st; admis to MHA major; or cons instr**Course Rules:** Counts as repeat of HCA 590 of same topic.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 821 Operations Management in Healthcare Organizations**

3 cr. Graduate.

Fundamental principles, concepts, and approaches regarding health care operations management, quality management, and process improvement.

**Prerequisites:** grad st; admis to MHA major; or cons instr**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 822 Human Resources Management for Healthcare Executives**

3 cr. Graduate.

Human resources management functions, processes and systems within healthcare organizations including recruitment, selection, training of personnel and the legal and regulatory environment.

**Prerequisites:** grad st; admis to MHA major; or cons instr.**Course Rules:** Counts as repeat of HCA 590 of same topic.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 823 Strategic Planning in Health Care Organizations**

3 cr. Graduate.

Application of decision support for strategic planning in health care organizations. Counts as repeat of HCA 590 of same topic.

**Prerequisites:** grad st; admis to MHA major; or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 830 Social Media & Healthcare: Opportunities & Pitfalls**

3 cr. Graduate.

Social media for healthcare providers, self-management, disease surveillance, mood/depression detection, social support for patients with chronic diseases. Social media as platforms for collaboration.

**Prerequisites:** grad st; admis to MHA or MS-HCI program; or cons instr**Course Rules:** Counts as repeat of HCA 590 of same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 835 Patient-Provider Communication: Strategies & Practices**

3 cr. Graduate.

Communication techniques including technological skills, social media skills, inter-cultural skills and the ability to understand the new and evolving empowered patients. Counts as repeat of HCA 590 of same topic.

**Prerequisites:** grad st; admis to MHA or MS-HCI program; or cons instr**Last Taught:** Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 843 Quantitative Methods for Healthcare Administrators**

3 cr. Graduate.

Basic and intermediate methods that healthcare administrators and their teams use to analyze quantifiable data, including individual and group exploration into the terminology, application, selection, evaluation, and communication of these methods and their results.

**Prerequisites:** grad st; admis to MHA major; or cons instr.**Course Rules:** Counts as repeat of HCA 590 with similar topic.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 865 Financial Management for Health Care Organizations**

3 cr. Graduate.

Skills in analysis, synthesis and evaluation of advanced financial management theories, principles, concepts and techniques important to health management.

**Prerequisites:** grad st; admis to MHA major; or cons instr**Course Rules:** Counts as repeat of HCA 590 of same topic.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HCA 866 Leading Change & Innovation in a System**

3 cr. Graduate.

Management of innovation business projects, including multi-tier contracting, virtual manufacturing, quality targeting and pursuit, and global operations. Counts as repeat of HCA 590 of same topic.

**Prerequisites:** grad st; admis to MHA major; or cons instr**Last Taught:** Spring 2023, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 867 Global Population Health Management**

3 cr. Graduate.

Examines the challenges and opportunities to improving health within and across populations, as well as models of value-driven accountable care.

**Prerequisites:** graduate standing and admis to MHA program; or consent of instructor.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 868 Health Law and Ethics**

3 cr. Graduate.

Critical examination for healthcare specific issues and differences from other industries; financial and accounting practice; legal requirements and constraints; ethical issues facing healthcare managers.

**Prerequisites:** grad st; admis to MHA major; or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 869 Health Care Compliance**

3 cr. Graduate.

Fundamentals of health care compliance, following Health Care Compliance Association expectations. Partial preparation for Certification in Healthcare Compliance (CHC) exam offered by Compliance Certification Board.

**Prerequisites:** grad st; or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 870 Internship in Health Care Administration**

2 cr. Graduate.

Fieldwork placement in a staff or administrative position.

**Prerequisites:** grad st; admis to MHA program; or cons instr

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 871 MHA Capstone**

1 cr. Graduate.

Capstone course in which students demonstrate mastery of integration and synthesis of didactic and experiential coursework. Facilitates the turning point from education to professional practice.

**Prerequisites:** grad st; admis to MHA; or cons instr

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 909 Guided Teaching Experience in Health Sciences**

3 cr. Graduate.

This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.

**Prerequisites:** graduate standing, one of the following: ATRAIN 900(P), OCCTHPY 900(P), PRPP 900(P), or PT 900(P), and consent of instructor.

**Course Rules:** Satisfactory/Unsatisfactory only. ATRAIN 909, BMS 909, COMSDIS 909, HCA 909, KIN 909, OCCTHPY 909, PT 909, and PRPP 909 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2021, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HCA 990 Research and Dissertation**

1-6 cr. Graduate.

Research in HealthCare Administration and Informatics.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Health Care Informatics (HI)

**HI 537 Health Information Technology and Management**

3 cr. Undergraduate/Graduate.

Introduction to origins, sources and content of healthcare data; technologies used to manage and control healthcare databases.

Introduction to key components of healthcare databases, telecommunications technology, electronic medical record (EMR), project management, and systems evaluation.

**Prerequisites:** junior standing in Health Sciences program or minor in HCA or HCI cert or cons instr; HS 224(P), INFOST 110(P), or BUS ADM 230(P).

**Course Rules:** Previously HCA 537.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 537G Health Information Technology and Management**

3 cr. Undergraduate/Graduate.

Introduction to origins, sources and content of healthcare data; technologies used to manage and control healthcare databases.

Introduction to key components of healthcare databases, telecommunications technology, electronic medical record (EMR), project management, and systems evaluation.

**Prerequisites:** junior standing in Health Sciences program or minor in HCA or HCI cert or cons instr; HS 224(P), INFOST 110(P), or BUS ADM 230(P).

**Course Rules:** Previously HCA 537.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 700 Introduction to Health Care Informatics**

3 cr. Graduate.

An introduction to the history, theory, applications, and organizational context of health informatics.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 700.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 721 Health Information Technology Procurement**

3 cr. Graduate.

A study of the concepts related to acquisition of information technology, including evaluation, selection, and contracts. Emphasis on integration of information technology and strategic planning.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 721.

**Last Taught:** Spring 2017, Spring 2016, Summer 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 722 Legal, Ethical and Social Issues in Health Care Informatics**

3 cr. Graduate.

Legal, ethical and social issues in the use of health care computer-based technology and information systems.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 722.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 723 Health Care Systems Applications - Administrative and Clinical**

3 cr. Graduate.

A study of the administrative and clinical applications of health information systems with emphasis on content, functional and technical requirements.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 723.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 740 Introduction to Biomedical Database Applications**

3 cr. Graduate.

The course surveys the emerging field of biomedical database applications, which includes recurrent themes in biomedical database design.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 740.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 741 Essential Programming for Health Informatics**

3 cr. Graduate.

Study of programming topics and skills necessary to perform commonly encountered computational tasks in the field of biomedical and health informatics.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 741.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 742 Computational Intelligence in Health Informatics**

3 cr. Graduate.

Study of computational intelligence as applied to biomedical and health care informatics.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 742.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 743 Predictive Analytics in Healthcare**

3 cr. Graduate.

Study of predictive analytics methods and their healthcare applications.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 743.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 744 Text Retrieval and Its Applications in Biomedicine**

3 cr. Graduate.

Fundamental issues and current research in text retrieval, text classification and their biomedical applications; programming and use of indexing, query processing, and document retrieval methods.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** COMPSCI 744 and HI 744 are jointly offered and count as repeats of one another. Not open to students who have cr in COMPSCI 744, COMPSCI 444 or HCA 444.

**Last Taught:** Fall 2016, Fall 2015, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 745 Health Big Data Processing Platforms**

3 cr. Graduate.

Study of big data processing techniques in healthcare.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 745.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 760 Biomedical and Healthcare Terminology and Ontology**

3 cr. Graduate.

Theory and application of ontology, controlled terminology, and coding to health information systems.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 760.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 776 Biomedical Natural Language Processing**

3 cr. Graduate.

Study of basic and essential concepts, techniques, and tools of Natural Language Processing for its application to the biomedical domain.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 776.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 789 Biomedical Information Extraction**

3 cr. Graduate.

Applications of Natural Language Processing Methods to Biomedical Information Extraction Tasks.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 789.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 890 Health Care Informatics Research and Thesis**

1-6 cr. Graduate.

Preparation of a thesis under the direction of the student's major professor.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 890. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 891 Health Care Informatics Professional Project**

3 cr. Graduate.

Preparation of a professional project under the supervision of the student's major professor.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Previously HCA 891. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HI 990 Research and Dissertation**

1-6 cr. Graduate.

Research in Health Care Informatics.

**Prerequisites:** graduate standing.

**Course Rules:** Repeatable.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Health Sciences (HS)

**HS 101 Introduction to Health and Disease**

2 cr. Undergraduate.

A survey of health promotion and disease prevention including fitness, nutrition, disease transmission, mental health, drug use, and other current health-related topics.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HS 102 Healthcare Delivery in the United States**

3 cr.

An introduction to healthcare delivery focusing on consumers, providers, organization, financing, quality and utilization of services, health planning, and political and governmental impacts.

**Prerequisites:** none.

**Course Rules:** CGS HES 102 and HS 102 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HS 102X Healthcare Delivery in the United States**

3 cr.

An introduction to healthcare delivery focusing on consumers, providers, organization, financing, quality and utilization of services, health planning, and political and governmental impacts.

**Prerequisites:** none.

**Course Rules:** CGS HES 102 and HS 102 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HS 105 Survey of the Health Professions**

3 cr.

An introduction to health professions, professional pathways, their work settings, and roles on the healthcare team. Other topics include: patient-professional communication, patient characteristics, medical terminology.

**Prerequisites:** none.

**Course Rules:** CGS HES 105 and HS 105 are jointly offered and count as repeats of one another.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HS 105X Survey of the Health Professions**

3 cr.

An introduction to health professions, professional pathways, their work settings, and roles on the healthcare team. Other topics include: patient-professional communication, patient characteristics, medical terminology.

**Prerequisites:** none.

**Course Rules:** CGS HES 105 and HS 105 are jointly offered and count as repeats of one another.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HS 222 Language of Medicine**

3 cr. Undergraduate.

Medical terms used in oral and written communication; reviews terminology by body system with emphasis on application.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HS 224 Computational Tools for Healthcare Professionals**

3 cr. Undergraduate.

Healthcare focused introduction to computational tools for information management, including system architecture, process and ethical concepts. Incorporates training in office application software.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HS 250 Allied Health Information Methods**

2 cr. Undergraduate.

Techniques and processes used by allied health personnel to translate thought and behavior into an acceptable style and format for documentation of activities.

**Prerequisites:** soph st; grade of C or better in English 102(P) or score at level 4 on EPT.

**Last Taught:** Spring 2019, Fall 2018, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HS 251 Health Documentation**

1 cr. Undergraduate.

Appropriate health documentation techniques will be addressed including the medical; legal and reimbursement issues of patient assessment, problem identification, and patient care plans.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HS 311 Law and Ethics for Healthcare Professionals**

3 cr. Undergraduate.

An introduction to law and ethics as it relates to healthcare including bioethics. Topics include contracts, torts, damages, negligence, malpractice, litigation and trial proceedings, and ethics in clinical and business decision-making.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HS 311X Law and Ethics for Healthcare Professionals**

3 cr. Undergraduate.

An introduction to law and ethics as it relates to healthcare including bioethics. Topics include contracts, torts, damages, negligence, malpractice, litigation and trial proceedings, and ethics in clinical and business decision-making.

**Prerequisites:** junior standing or consent of instructor.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HS 917 Seminar in Health Outcomes Assessment**

3 cr. Graduate.

Conceptual innovations and methodological strategies in outcomes research including implementation in clinical research and practice.

**Prerequisites:** grad st ; cons instr**Last Taught:** Fall 2014, Fall 2013, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Hebrew (HEBREW)

**HEBREW 101 First Semester Hebrew**

4 cr. Undergraduate.

For students with no previous knowledge of Hebrew. Elements of reading and grammar, vocabulary building, and fundamental principles of the language. Reading in simple narrative Hebrew prose. Language laboratory required.

**Prerequisites:** none.**Course Rules:** Not open to native speakers of Hebrew. May not be taken for cr by students who have completed HEBREW 51 or HEBREW 52.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HEBREW 102 Second Semester Hebrew**

4 cr. Undergraduate.

Continuation of HEBREW 101. Language laboratory required.

**Prerequisites:** HEBREW 101(P) or HEBREW 51(P) and HEBREW 52(P).

Generates L&amp;S credit for demonstrated equivalent preparation (4 retro cr).

**Course Rules:** Not open to native speakers of Hebrew. No cr for students who have cr in HEBREW 53 and HEBREW 54.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HEBREW 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Spring 2020, Fall 2011, Fall 2006, Spring 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HEBREW 201 Third-Semester Hebrew**

4 cr. Undergraduate.

Advanced grammar and idiom. Easy selections from the Bible and later Hebrew literature.

**Prerequisites:** HEBREW 102(P) or HEBREW 54(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).**Course Rules:** Not open to native speakers of Hebrew.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HEBREW 202 Fourth-Semester Hebrew**

4 cr. Undergraduate.

Continuation of HEBREW 201.

**Prerequisites:** HEBREW 201(P). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).**Course Rules:** Not open to native speakers of Hebrew.**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HEBREW 301 Modern Hebrew Literature I in Hebrew**

3 cr. Undergraduate.

Selections from modern Hebrew prose and poetry up to 1948. Course conducted substantially in Hebrew.

**Prerequisites:** jr st. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).**Course Rules:** Not open for cr to students w/ cr in HEBREW 303.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HEBREW 302 Modern Hebrew Literature II in Hebrew**

3 cr. Undergraduate.

Selections from modern Hebrew prose and poetry from 1948 to the present. Course conducted substantially in Hebrew.

**Prerequisites:** jr st. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).**Course Rules:** Not open for cr to students w/cr in HEBREW 304.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022, Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## History (HIST)

**HIST 101 Western Civilization: Ancient World to 1500**

3 cr. Undergraduate.

A survey of major themes in the social, political, and cultural development of the western world from its ancient origins to 1500.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 102 Western Civilization: 1500 to the Present**

3 cr. Undergraduate.

A survey of major themes in the social, political, and cultural development of the western world from 1500 to the present.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 110 Football and American Society**

3 cr. Undergraduate.

Football as a game and institution in American society and culture.

Topics include gender, militarism, patriotism, labor, tax, and race issues in the US.

**Prerequisites:** none**Course Rules:** Counts as a repeat of Hist 404 with a similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**HIST 131 World History to 1500**

3 cr. Undergraduate.

Global perspective on the development of the civilizations of Europe, Africa, Asia, and the Americas from prehistoric times to the dawn of the modern era.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 132 World History Since 1500**

3 cr. Undergraduate.

Global perspective on the development and integration of the civilizations of the world from the age of European expansion to the present.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** UWinteriM 2024, Summer 2023, Spring 2023, UWinteriM 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 141 Global History of the Family, Gender, and Sexuality**

3 cr. Undergraduate.

A thematic survey of global history exploring the changing concepts of gender, sexuality, and the family from prehistory to the present. Topics include genealogy, demography, kinship, law, artistic representation, feminist analysis, and sexual diversity studies.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2021, Fall 2020, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 150 Multicultural America**

3 cr. Undergraduate.

Cross-cultural study of U.S. ethnic and racial identities through materials from literature, history, and the media, with attention to African-, Asian-, Hispanic-, and Native-American experiences.

**Prerequisites:** none.

**Course Rules:** Cultures and Communities Prog course; req'd service learning component.

**General Education Requirements:** CD, HU

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 151 American History: 1607 to 1877**

3 cr. Undergraduate.

Survey of American social, political and economic development to 1877.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 152 American History: 1877 to the Present**

3 cr. Undergraduate.

Survey of American social, political, diplomatic, and economic development, from 1877 to the present.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 175 East Asian Civilization to 1600**

3 cr. Undergraduate.

Survey of the culture, history, and institutions of China, Korea, and Japan from earliest times.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022, Fall 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 176 East Asian Civilization Since 1600**

3 cr. Undergraduate.

Survey of the culture, history, and institutions of China, Korea, and Japan since 1600.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 180 Latin American Society and Culture**

3 cr. Undergraduate.

Lecture course designed to familiarize students with the broad parameters of Latin American history, emphasis on themes of continuity and change.

**Prerequisites:** none.

**Course Rules:** No cr for students with cr in Hist 388, 389, or 390.

**General Education Requirements:** SS

**Last Taught:** Spring 2019, Fall 2014, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2018, Spring 2018, Summer 2017, Summer 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 193 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** SS

**Last Taught:** Fall 2019, Fall 2007, Fall 2006, Fall 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Spring 2021, Fall 2016, Spring 2012, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 200 Historical Roots of Contemporary Issues:**

3 cr. Undergraduate.

This course examines the historical dimensions and demonstrates the importance of historical thinking for the understanding of contemporary problems and crises.

**Prerequisites:** none.**Course Rules:** May be retaken with change in topic.**General Education Requirements:** SS**Last Taught:** Spring 2020, Fall 2018, Fall 2017, Summer 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 201 The Ancient World: The Near East and Greece**

3 cr. Undergraduate.

Mesopotamians, biblical Palestinians, Assyrians, Medes, Persians, and Greeks to 323 B.C.E.

**Prerequisites:** none.**Course Rules:** Not open for cr to students who have had any Hist courses numbered 121, 303, or 304.**General Education Requirements:** HU**Last Taught:** Spring 2017, Fall 2014, Fall 2013, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 202 The Ancient World: The Roman Republic and Empire**

3 cr. Undergraduate.

Survey of the history of ancient Rome from its beginnings to the time of Constantine the Great.

**Prerequisites:** none.**Course Rules:** Not open for cr to students who have had any Hist courses numbered 122, 307 or 308.**General Education Requirements:** HU**Last Taught:** Spring 2021, Fall 2019, Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 203 The History of Medieval Europe: The Early Middle Ages**

3 cr. Undergraduate.

Studies in the history of Europe and the Mediterranean world from the fourth to the tenth centuries.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 204 The History of Medieval Europe: The High Middle Ages**

3 cr. Undergraduate.

Studies in the history of Europe and the Mediterranean world from the eleventh to the fourteenth centuries.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 206 Europe and the Modern World: 1815 to the Present**

3 cr. Undergraduate.

Survey of the political, economic, social, and cultural history of modern western civilization.

**Prerequisites:** none.**Course Rules:** Not open for cr to students w/cr in Hist 374 or 375.**General Education Requirements:** SS**Last Taught:** Spring 2019, Fall 2004, Spring 2004, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 210 The Twentieth Century: A Global History**

3 cr. Undergraduate.

War, revolution, colonialism in global perspective; role of science, communication, and technology; shifting concepts of gender, class, race, and authority; internationalization of ideas and commerce.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 215 History of Capitalism**

3 cr. Undergraduate.

Examines the role of property rights, technology, forms of enterprise, and business-state relations and the economic benefits and social costs of economic change.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2021, Fall 2020, Fall 2018, Fall 1993.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 229 History of Race, Science, and Medicine in the United States**

3 cr. Undergraduate.

Education and professionalization of minorities in science, medicine, and nursing; minorities as patients and scientific subjects; biographies of minority scientists; scientific theories of racial inferiority.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 235 English History to 1688**

3 cr. Undergraduate.

Celtic period, Roman occupation, the Anglo-Saxons, Christianization of England, Norman conquest, feudalism, medieval peasantry, Black Death, rise of the Tudors, Renaissance, Reformation, English revolution.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 236 Britain Since 1688: Rise and Decline of a Great Power**

3 cr. Undergraduate.

Examines change and continuities in British life from 1688 to the present against the backdrop of industrialization, imperial expansion, industrial decline, and decolonization.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2013, Spring 2009, Spring 2008, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 239 Poland and its Neighbors, 1795-1914**

3 cr. Undergraduate.

The Polish lands and Central Europe in the 19th century, from the Napoleonic era to the First World War.

**Prerequisites:** none.**Last Taught:** Spring 2020, Fall 2007, Spring 1997, Spring 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 241 Women and Gender in Europe: 1350 to 1750**

3 cr. Undergraduate.

Social, economic, cultural, religious, and political aspects of the history of women from the Middle Ages to the Enlightenment.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 242 Women and Gender in Europe: 1750 to the Present**

3 cr. Undergraduate.

Social, economic, cultural, religious and political aspects of the history of women and gender from the Enlightenment to the present.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2022, Fall 2019, Spring 2017, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 243 History of Women in American Society**

3 cr. Undergraduate.

The changing, economic, social, and political roles of American women, their relationship to public and private life, and their evolving self-consciousness.

**Prerequisites:** none.**Course Rules:** Not open to students who have taken Hist 423.**General Education Requirements:** HU**Last Taught:** Fall 2016, Spring 2016, Fall 2014, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 248 The First World War**

3 cr. Undergraduate.

Origins and course of what became the Great War. The peace settlements. Emphasis on economic and social change as well as military and diplomatic matters.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 249 The Second World War in Europe**

3 cr. Undergraduate.

The origins and course of the war in Europe from 1939 to 1945. Emphasis on political and diplomatic aspects as well as military matters.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 262 North American Indian History to 1887**

3 cr. Undergraduate.

A survey of Native American history from aboriginal times to 1887. Emphasis will be placed on American policies and change within Indian societies.

**Prerequisites:** none.**Course Rules:** AIS 262 & HIST 262 are jointly offered; they count as repeats of one another.**General Education Requirements:** CD, SS**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 263 North American Indian History Since 1887**

3 cr. Undergraduate.

A survey of American Indian history since 1887 with emphasis on federal policies and changing Indian societies in the twentieth century.

**Prerequisites:** none.**Course Rules:** AIS 263 & Hist 263 are jointly offered; they count as repeats of one another.**General Education Requirements:** CD, SS**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 266 Race, Racial Thought, and Prejudice in the United States, 1607 - Present**

3 cr. Undergraduate.

A history of racial attitudes and their impact on racial minorities in the United States from 1607 to the present.

**Prerequisites:** none.**Course Rules:** Not open to students with cr in Hist 165(ER).**General Education Requirements:** CD, HU**Last Taught:** Fall 1997, Fall 1995, Summer 1994, Summer 1992.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 267 The History of Latinos in the United States**

3 cr. Undergraduate.

History and culture of Latinos in the United States from the colonial period to the present; emphasis on Mexican American, Puerto Rican, and Cuban experiences.

**Prerequisites:** none.**Course Rules:** Hist 267 & Latino 267 are jointly offered; they count as repeats of one another.**General Education Requirements:** CD, HU**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 268 History of the American West**

3 cr. Undergraduate.

The American frontier experience; Indian policy, expansion; fur trade; settlement; communications, mining frontier; cattle frontier, and the impact of westward expansion on the nation.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2008, Fall 2007, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 269 Asian Americans in Historical Perspective**

3 cr. Undergraduate.

The history of Asians in the United States from 1849 to the present emphasizing the Chinese, Japanese, Filipino, Korean, and southeast Asian experiences of immigration, discrimination, and assimilation in different regions in the United States.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Last Taught:** Fall 2021, Spring 2019, Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 270 Topics in American History.**

3 cr. Undergraduate.

American historical topics of current importance.

**Prerequisites:** none.**Course Rules:** May be retaken w/chg in topic. Students may take any combination of Hist 250, 270 & 290 not to exceed 9 cr.**Last Taught:** Fall 2016, Fall 2015, Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 271 The 1960s in the United States: A Cultural History**

3 cr. Undergraduate.

Overview of social upheavals; how 1960s shaped racial and ethnic identities, youth culture, sexual mores, community activism, art and fashion, political values; decade's enduring influence.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 274 Ancient Egyptian Civilization**

3 cr. Undergraduate.

Culture of Egypt, with particular attention to its literature reflecting social, political, and religious conditions; emphasis on Egyptian-Hebrew contacts during the second millennium.

**Prerequisites:** none.**Course Rules:** Classic (Hebr St) 274 & Hist 274 are jointly offered; they count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 280 Islamic Civilization: The Formative Period, ca. 500-1258**

3 cr. Undergraduate.

The rise and spread of Islam in medieval times; its social and political history and its contribution to world civilization.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2018, Fall 2017, Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 282 The Modern Middle East in the Nineteenth and Twentieth Centuries**

3 cr. Undergraduate.

The challenge of colonialisms--Ottoman, Portuguese, French and British--and the response of nationalisms--Arab, Turkish, Persian, and Zionist; also the Arab-Israeli conflict.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 284 Buddhism Across Asia**

3 cr. Undergraduate.

History of Buddhism from the 5th century BCE to the present.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2019, Fall 2016, Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 286 The Korean War**

3 cr. Undergraduate.

Origins, conduct, and meaning of the Korean conflict, 1950-1953.

**Prerequisites:** none.**Last Taught:** Spring 2009, Spring 2008, Spring 2007, Fall 1989.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 287 The Vietnam War**

3 cr. Undergraduate.

A political, social, and cultural history of the Vietnamese and American dimensions of the war in Vietnam.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Spring 2023, Spring 2022, Spring 2021, UWinterIM 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 289 Internship in History, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of history in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Hist; 2.50 gpa; writ cons supervising faculty member & dept chair.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Last Taught:** Fall 2012, Spring 2007, Summer 2005, Fall 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 290 Topics in Global History.**

3 cr. Undergraduate.

Global, comparative, and non-western historical topics of current importance.

**Prerequisites:** none.**Course Rules:** May be retaken w/chg in topic. Students may take any combination of Hist 250, 270, & 290 not to exceed 9 cr.**Last Taught:** Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 294 Seminar on Historical Method: Research Techniques**

3 cr. Undergraduate.

The practical problems of historical research: question-framing, research design, use of sources, bibliography, archives and manuscript collections, quantification; evidence, verification, and exposition.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 295 Historical Encounters:**

3 cr. Undergraduate.

Studies in history of contacts and conflicts between differing civilizations. European, Near Eastern, Asian, African, and American topics are treated in cross-cultural perspective.

**Prerequisites:** none.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** UWinterIM 2008, Spring 2002, Spring 1993, Spring 1992.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Last Taught:** Spring 2017, Fall 2007, Spring 2007, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before coursework level, content and credits are determined and/or in specially prepared program coursework.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2018, Fall 1997, Spring 1995, Summer 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 303 A History of Greek Civilization: The Greek City-State**

3 cr. Undergraduate/Graduate.

Greek history from prehistoric times to the death of Alexander the Great.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 303G A History of Greek Civilization: The Greek City-State**

3 cr. Undergraduate/Graduate.

Greek history from prehistoric times to the death of Alexander the Great.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 304 A History of Greek Civilization: The Age of Alexander the Great**

3 cr. Undergraduate/Graduate.

The Macedonian state to the death of Alexander the Great; the Hellenistic states.

**Prerequisites:** jr st; completion of GER English Composition competency req.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 304G A History of Greek Civilization: The Age of Alexander the Great**

3 cr. Undergraduate/Graduate.

The Macedonian state to the death of Alexander the Great; the Hellenistic states.

**Prerequisites:** jr st; completion of GER English Composition competency req.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 307 A History of Rome: The Republic**

3 cr. Undergraduate/Graduate.

Roman history from the beginnings of the Roman state to the death of Julius Caesar.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 307G A History of Rome: The Republic**

3 cr. Undergraduate/Graduate.

Roman history from the beginnings of the Roman state to the death of Julius Caesar.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 308 A History of Rome: The Empire**

3 cr. Undergraduate/Graduate.

Roman history from the death of Julius Caesar to the fall of the empire in the west.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 308G A History of Rome: The Empire**

3 cr. Undergraduate/Graduate.

Roman history from the death of Julius Caesar to the fall of the empire in the west.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 318 Medieval Civilization: The High Middle Ages**

3 cr. Undergraduate/Graduate.

The intellectual development of medieval Europe, from the twelfth century to the fourteenth century.

**Prerequisites:** jr st; completion of GER English Composition competency req.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 318G Medieval Civilization: The High Middle Ages**

3 cr. Undergraduate/Graduate.

The intellectual development of medieval Europe, from the twelfth century to the fourteenth century.

**Prerequisites:** jr st; completion of GER English Composition competency req.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 319 The Era of the Crusades**

3 cr. Undergraduate/Graduate.

A consideration of the relationships between western Europe and the East in the period of the Crusades.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 319G The Era of the Crusades**

3 cr. Undergraduate/Graduate.

A consideration of the relationships between western Europe and the East in the period of the Crusades.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 320 History of Medieval Warfare**

3 cr. Undergraduate/Graduate.

Evolution of warfare in the Middle Ages; technology, tactics, strategy, and interaction with politics and culture.

**Prerequisites:** jr st; completion of GER English Composition competency req.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 320G History of Medieval Warfare**

3 cr. Undergraduate/Graduate.

Evolution of warfare in the Middle Ages; technology, tactics, strategy, and interaction with politics and culture.

**Prerequisites:** jr st; completion of GER English Composition competency req.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 329 The Roman Catholic Church, 1500 to the Present**

3 cr. Undergraduate/Graduate.

History of the Catholic Church from the Renaissance to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2011, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 329G The Roman Catholic Church, 1500 to the Present**

3 cr. Undergraduate/Graduate.

History of the Catholic Church from the Renaissance to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2011, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 330 The Papacy in History**

3 cr. Undergraduate/Graduate.

Examination of the papacy, the world's most visible and influential religious office, from its origins to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** Not open to students w/cr in Hist 600 w/same topic.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 330G The Papacy in History**

3 cr. Undergraduate/Graduate.

Examination of the papacy, the world's most visible and influential religious office, from its origins to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** Not open to students w/cr in Hist 600 w/same topic.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 341 Imperial Russia**

3 cr. Undergraduate/Graduate.

Development of autocracy and expansion of Russia's multi-ethnic empire; Russian economic, political, and intellectual developments under the tsars; reform and revolution.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 341G Imperial Russia**

3 cr. Undergraduate/Graduate.

Development of autocracy and expansion of Russia's multi-ethnic empire; Russian economic, political, and intellectual developments under the tsars; reform and revolution.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 343 Russia Since 1917**

3 cr. Undergraduate/Graduate.

Russian cultural, social, and political history since the revolutions of 1917.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 343G Russia Since 1917**

3 cr. Undergraduate/Graduate.

Russian cultural, social, and political history since the revolutions of 1917.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 346 Poland and Its Neighbors, 1914-1945**

3 cr. Undergraduate/Graduate.

The effects of two world wars in East-Central Europe. The independence and subjugation of Poland, Czechoslovakia, Hungary and the Baltic States.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 346G Poland and Its Neighbors, 1914-1945**

3 cr. Undergraduate/Graduate.

The effects of two world wars in East-Central Europe. The independence and subjugation of Poland, Czechoslovakia, Hungary and the Baltic States.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 348 Poland and Its Neighbors, 1945 to the Present**

3 cr. Undergraduate/Graduate.

Developments in Poland, East Germany, Czechoslovakia, and Hungary since the Second World War. The origins, development, decline, and fall of communist rule in Central Europe.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2021, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 348G Poland and Its Neighbors, 1945 to the Present**

3 cr. Undergraduate/Graduate.

Developments in Poland, East Germany, Czechoslovakia, and Hungary since the Second World War. The origins, development, decline, and fall of communist rule in Central Europe.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2021, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 355 Modern and Contemporary France**

3 cr. Undergraduate/Graduate.

France as a political experiment, complex society, intellectual and cultural center, and imperial power since 1815, with emphasis on the period since the late nineteenth century.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 355G Modern and Contemporary France**

3 cr. Undergraduate/Graduate.

France as a political experiment, complex society, intellectual and cultural center, and imperial power since 1815, with emphasis on the period since the late nineteenth century.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 358 The Jews of Modern Europe: History and Culture**

3 cr. Undergraduate/Graduate.

History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.

**Prerequisites:** jr st.

**Course Rules:** Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 358G The Jews of Modern Europe: History and Culture**

3 cr. Undergraduate/Graduate.

History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.

**Prerequisites:** jr st.

**Course Rules:** Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 363 Germany: Hitler and the Nazi Dictatorship**

3 cr. Undergraduate/Graduate.

Rise and fall of Third Reich; Weimar Republic and collapse; Hitler's conquest of power, national socialist state, World War II; catastrophe and reconstruction.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 363G Germany: Hitler and the Nazi Dictatorship**

3 cr. Undergraduate/Graduate.

Rise and fall of Third Reich; Weimar Republic and collapse; Hitler's conquest of power, national socialist state, World War II; catastrophe and reconstruction.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 364 The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45**

3 cr. Undergraduate/Graduate.

The rise of Nazism; anti-Semitism; annihilation of Jews and other ethnic and religious minorities; Jewish responses and resistance; legacy of persecution.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Course Rules:** Not open for cr to students with Hist 295 'Historical Encounters: The Holocaust.'

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 364G The Holocaust: Anti-Semitism & the Fate of Jewish People in Europe, 1933-45**

3 cr. Undergraduate/Graduate.

The rise of Nazism; anti-Semitism; annihilation of Jews and other ethnic and religious minorities; Jewish responses and resistance; legacy of persecution.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Course Rules:** Not open for cr to students with Hist 295 'Historical Encounters: The Holocaust.'

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 370 Topics in the History of Religious Thought:**

3 cr. Undergraduate/Graduate.

Selected topics in the history of religious thought, for graduate and advanced undergraduate students. Intensive reading and student reports will be stressed.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 370G Topics in the History of Religious Thought:**

3 cr. Undergraduate/Graduate.

Selected topics in the history of religious thought, for graduate and advanced undergraduate students. Intensive reading and student reports will be stressed.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 371 Topics in European History:**

3 cr. Undergraduate/Graduate.

Selected themes and issues in European history.

**Prerequisites:** jr st; completion of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 371G Topics in European History:**

3 cr. Undergraduate/Graduate.

Selected themes and issues in European history.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 372 Topics in Global History:**

3 cr. Undergraduate/Graduate.

Selected issues in global history.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 372G Topics in Global History:**

3 cr. Undergraduate/Graduate.

Selected issues in global history.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 373 Topics in Gender and History:**

3 cr. Undergraduate/Graduate.

Selected topics in the history of gender, family, and sexuality.

**Prerequisites:** junior standing and satisfaction of English Composition competency requirement.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 373G Topics in Gender and History:**

3 cr. Undergraduate/Graduate.

Selected topics in the history of gender, family, and sexuality.

**Prerequisites:** junior standing and satisfaction of English Composition competency requirement.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 375 Contemporary European History, 1945 to the Present**

3 cr. Undergraduate/Graduate.

The Cold War; the recovery of Europe; student revolutions and spiritual crisis; economic stagnation; moves toward European unification; breakup of the Soviet bloc.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 375G Contemporary European History, 1945 to the Present**

3 cr. Undergraduate/Graduate.

The Cold War; the recovery of Europe; student revolutions and spiritual crisis; economic stagnation; moves toward European unification; breakup of the Soviet bloc.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 376 Premodern China**

3 cr. Undergraduate/Graduate.

History of China from prehistoric times to 1600; attention to development of distinctive qualities of Chinese philosophy, politics, society, and material culture.

**Prerequisites:** junior standing and satisfaction of English Composition competency requirement.**Last Taught:** Spring 2013, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 376G Premodern China**

3 cr. Undergraduate/Graduate.

History of China from prehistoric times to 1600; attention to development of distinctive qualities of Chinese philosophy, politics, society, and material culture.

**Prerequisites:** junior standing and satisfaction of English Composition competency requirement.**Last Taught:** Spring 2013, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 377 Modern China**

3 cr. Undergraduate/Graduate.

China in the nineteenth and twentieth centuries, from the Opium Wars to the establishment of People's Republic in 1949. Major political, economic and social issues.

**Prerequisites:** jr st; satisfaction of English Composition competency req.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 377G Modern China**

3 cr. Undergraduate/Graduate.

China in the nineteenth and twentieth centuries, from the Opium Wars to the establishment of People's Republic in 1949. Major political, economic and social issues.

**Prerequisites:** jr st; satisfaction of English Composition competency req.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 378 Revolution in China**

3 cr. Undergraduate/Graduate.

History of the socialist revolution in China. Background examination of the Chinese communist movement, but major emphasis on People's Republic from 1949 to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Spring 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**HIST 378G Revolution in China**

3 cr. Undergraduate/Graduate.

History of the socialist revolution in China. Background examination of the Chinese communist movement, but major emphasis on People's Republic from 1949 to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 379 Introduction to Jewish History**

3 cr. Undergraduate.

Historical survey of major currents in Jewish culture and society from antiquity to the present day, with particular focus on the modern era.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Course Rules:** HIST 379 and JEWISH 379 are jointly offered; they count as repeats of one another.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 380 Buddhism: A Cultural History**

3 cr. Undergraduate/Graduate.

Development of Buddhist culture in Asia and contemporary globalized world; intertwining themes of individual purification and Buddhist visions of just and unjust societies.

**Prerequisites:** jr st; completion GER English Composition competency req.

**Last Taught:** Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 380G Buddhism: A Cultural History**

3 cr. Undergraduate/Graduate.

Development of Buddhist culture in Asia and contemporary globalized world; intertwining themes of individual purification and Buddhist visions of just and unjust societies.

**Prerequisites:** jr st; completion GER English Composition competency req.

**Last Taught:** Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 386 Africans in World History: Communities, Cultures, and Ideas**

3 cr. Undergraduate/Graduate.

Survey of themes in African history before 1850, prior to the onset of the establishment of widespread "formal" colonial rule.

**Prerequisites:** junior standing and satisfaction of OWC-A GER.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 386G Africans in World History: Communities, Cultures, and Ideas**

3 cr. Undergraduate/Graduate.

Survey of themes in African history before 1850, prior to the onset of the establishment of widespread "formal" colonial rule.

**Prerequisites:** junior standing and satisfaction of OWC-A GER.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 387 Colonization in Africa: A History of Resistance and Adaptation**

3 cr. Undergraduate/Graduate.

Examines various forms of resistance and responses by Africans to processes of colonization from the 16th to late 20th centuries.

**Prerequisites:** jr st; satisfaction of OWC-A GER.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 387G Colonization in Africa: A History of Resistance and Adaptation**

3 cr. Undergraduate/Graduate.

Examines various forms of resistance and responses by Africans to processes of colonization from the 16th to late 20th centuries.

**Prerequisites:** jr st; satisfaction of OWC-A GER.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 392 The History of Southern Africa**

3 cr. Undergraduate/Graduate.

Surveys the history of South Africa and Zimbabwe with special reference to the twentieth century, comparing their struggles for majority rule.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2022, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 392G The History of Southern Africa**

3 cr. Undergraduate/Graduate.

Surveys the history of South Africa and Zimbabwe with special reference to the twentieth century, comparing their struggles for majority rule.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Spring 2022, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 393 History of Mexico**

3 cr. Undergraduate/Graduate.

An upper-division survey course spanning all periods of Mexican history, with special emphasis on the historical origins and development of major contemporary issues.

**Prerequisites:** jr st or cons instr; satisfaction of GER English composition competency req.

**Last Taught:** Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 393G History of Mexico**

3 cr. Undergraduate/Graduate.

An upper-division survey course spanning all periods of Mexican history, with special emphasis on the historical origins and development of major contemporary issues.

**Prerequisites:** jr st or cons instr; satisfaction of GER English composition competency req.

**Last Taught:** Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 394 History of Japan to 1600**

3 cr. Undergraduate/Graduate.

Japanese political, economic, and social development, cultural change, and major historical figures, from ancient times to 1600.

**Prerequisites:** jr st; completion of GER English Composition competency req.

**Last Taught:** Spring 2009, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 394G History of Japan to 1600**

3 cr. Undergraduate/Graduate.

Japanese political, economic, and social development, cultural change, and major historical figures, from ancient times to 1600.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Last Taught:** Spring 2009, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 395 History of Japan Since 1600**

3 cr. Undergraduate/Graduate.

Japan's rise as modern nation-state and economic power; evolution of social, political, cultural institutions from establishment of Tokugawa shogunate through Meiji restoration to present.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Last Taught:** Fall 2014, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 395G History of Japan Since 1600**

3 cr. Undergraduate/Graduate.

Japan's rise as modern nation-state and economic power; evolution of social, political, cultural institutions from establishment of Tokugawa shogunate through Meiji restoration to present.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Last Taught:** Fall 2014, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 396 Decolonization, Revolution, and Independence in African History**

3 cr. Undergraduate/Graduate.

History of decolonization and independence in Africa: African adaptations to colonial rule; processes of decolonization; nationalism; and notions of sovereignty. Prereq: Prereq: jr st; satisfaction of OWC-A GER.

**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 396G Decolonization, Revolution, and Independence in African History**

3 cr. Undergraduate/Graduate.

History of decolonization and independence in Africa: African adaptations to colonial rule; processes of decolonization; nationalism; and notions of sovereignty. Prereq: Prereq: jr st; satisfaction of OWC-A GER.

**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 398 Honors Seminar:**

3 cr. Undergraduate.

Reading, discussion, and presentation of papers to help students acquire an understanding of important historical problems from a humanities perspective.

**Prerequisites:** sophomore standing; HONORS 200(P); consent of Honors College director.**Course Rules:** May be retaken with change in topic to combined 9 cr max in HIST 398 & HIST 399. Counts as repeat of HIST 270 & HIST 404 with similar topic.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 399 Honors Seminar:**

3 cr. Undergraduate.

Readings, discussion, and presentation of papers to help students acquire an understanding of important historical problems from a social science perspective.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.**Course Rules:** May be retaken w/chg in topic to combined 9 cr max in HIST 398 and HIST 399.**General Education Requirements:** SS**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 400 Topics in Latin American and Caribbean History:**

3 cr. Undergraduate/Graduate.

Selected themes and issues in the history of South America, Central America, and the Caribbean Islands.

**Prerequisites:** junior standing and completion of GER English Composition competency requirement.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 400G Topics in Latin American and Caribbean History:**

3 cr. Undergraduate/Graduate.

Selected themes and issues in the history of South America, Central America, and the Caribbean Islands.

**Prerequisites:** junior standing and completion of GER English Composition competency requirement.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 401 Topics in Middle Eastern History:**

3 cr. Undergraduate/Graduate.

Selected themes and issues in Middle Eastern history.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 401G Topics in Middle Eastern History:**

3 cr. Undergraduate/Graduate.

Selected themes and issues in Middle Eastern history.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 402 Topics in Asian History:**

3 cr. Undergraduate/Graduate.

Selected themes and issues in the history of Asia.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 402G Topics in Asian History:**

3 cr. Undergraduate/Graduate.

Selected themes and issues in the history of Asia.

**Prerequisites:** jr st; completion of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2023, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 404 Topics in American History:**

3 cr. Undergraduate/Graduate.

Selected themes and issues in the history of the United States.

**Prerequisites:** junior standing and completion of GER English Composition competency requirement.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 404G Topics in American History:**

3 cr. Undergraduate/Graduate.

Selected themes and issues in the history of the United States.

**Prerequisites:** junior standing and completion of GER English Composition competency requirement.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 405 The Age of the American Revolution, 1750-1789**

3 cr. Undergraduate/Graduate.

Background to revolution; British policy and American protest; political, social, diplomatic, and military phases of the War for Independence; Articles of Confederation; Constitution of 1787.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 405G The Age of the American Revolution, 1750-1789**

3 cr. Undergraduate/Graduate.

Background to revolution; British policy and American protest; political, social, diplomatic, and military phases of the War for Independence; Articles of Confederation; Constitution of 1787.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 409 Causes of the Civil War, 1828-1861**

3 cr. Undergraduate/Graduate.

Examination of the relationship between sectional conflict and political and social developments; the explanation of the causes and timing of the Civil War.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 409G Causes of the Civil War, 1828-1861**

3 cr. Undergraduate/Graduate.

Examination of the relationship between sectional conflict and political and social developments; the explanation of the causes and timing of the Civil War.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 410 Civil War and Reconstruction: The United States, 1861-1877**

3 cr. Undergraduate/Graduate.

The military conflict from Sumter to Appomattox; policies of Lincoln, Reconstruction and aftermath of slavery.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Summer 2010, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 410G Civil War and Reconstruction: The United States, 1861-1877**

3 cr. Undergraduate/Graduate.

The military conflict from Sumter to Appomattox; policies of Lincoln, Reconstruction and aftermath of slavery.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Summer 2010, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 418 America in Prosperity, Depression and War, 1921-1945**

3 cr. Undergraduate/Graduate.

The Twenties as a transition period; the Great Depression; Franklin D. Roosevelt and the New Deal; foreign policies and U.S. participation in World War II.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 418G America in Prosperity, Depression and War, 1921-1945**

3 cr. Undergraduate/Graduate.

The Twenties as a transition period; the Great Depression; Franklin D. Roosevelt and the New Deal; foreign policies and U.S. participation in World War II.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 419 America Since 1945**

3 cr. Undergraduate/Graduate.

Postwar America, including social and economic developments, Cold War rivalries, and the changing political scenes from the Truman years to the present.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 419G America Since 1945**

3 cr. Undergraduate/Graduate.

Postwar America, including social and economic developments, Cold War rivalries, and the changing political scenes from the Truman years to the present.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 432 North American Environmental History**

3 cr. Undergraduate.

Past interactions between human societies and the natural world on the North American continent.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 434 The United States as a World Power in the 20th Century**

3 cr. Undergraduate/Graduate.

How the United States became involved in two world wars and a cold war, while spreading its interests and influence across the globe.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 434G The United States as a World Power in the 20th Century**

3 cr. Undergraduate/Graduate.

How the United States became involved in two world wars and a cold war, while spreading its interests and influence across the globe.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 435 Ethnic America: To 1880**

3 cr. Undergraduate/Graduate.

Survey of the conflict between cultural diversity and the melting pot, included are theories about and experiences of ethnic groups in America, particularly the bad west.

**Prerequisites:** jr st; satisfaction of GER English composition competency req.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 435G Ethnic America: To 1880**

3 cr. Undergraduate/Graduate.

Survey of the conflict between cultural diversity and the melting pot, included are theories about and experiences of ethnic groups in America, particularly the bad west.

**Prerequisites:** jr st; satisfaction of GER English composition competency req.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 436 Immigrant America Since 1880**

3 cr. Undergraduate.

Survey of the conflict between the ideas of cultural diversity and assimilation, stressing the differing reception and settlement of white and non-white immigrants.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 440 History of the American Working Classes**

3 cr. Undergraduate/Graduate.

The social and occupational composition of the American working classes and their response to capitalism, socialism, and the organized labor movement.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 440G History of the American Working Classes**

3 cr. Undergraduate/Graduate.

The social and occupational composition of the American working classes and their response to capitalism, socialism, and the organized labor movement.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 442 Beer and Brewing in America**

3 cr. Undergraduate/Graduate.

Relationship between beer and brewing and social, political, and cultural change in the United States, from colonial times to the present.

**Prerequisites:** jr st; satisfaction of OWC-A GER.

**Course Rules:** No credit for students with credit in HIST 404 with same topic.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 442G Beer and Brewing in America**

3 cr. Undergraduate/Graduate.

Relationship between beer and brewing and social, political, and cultural change in the United States, from colonial times to the present.

**Prerequisites:** jr st; satisfaction of OWC-A GER.

**Course Rules:** No credit for students with credit in HIST 404 with same topic.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 445 African Americans from Slavery to Freedom**

3 cr. Undergraduate/Graduate.

African-American history from shores of Africa through Atlantic slave trade to plantation slavery and formation of an African-American community in the New World.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**General Education Requirements:** CD

**Last Taught:** Summer 2009, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 445G African Americans from Slavery to Freedom**

3 cr. Undergraduate/Graduate.

African-American history from shores of Africa through Atlantic slave trade to plantation slavery and formation of an African-American community in the New World.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**General Education Requirements:** CD

**Last Taught:** Summer 2009, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 446 African Americans Since the Civil War**

3 cr. Undergraduate/Graduate.

The search for justice and equality, from emancipation in 1865 to the civil rights revolution of the 1960's and beyond.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**General Education Requirements:** CD

**Last Taught:** Fall 2023, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 446G African Americans Since the Civil War**

3 cr. Undergraduate/Graduate.

The search for justice and equality, from emancipation in 1865 to the civil rights revolution of the 1960's and beyond.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**General Education Requirements:** CD

**Last Taught:** Fall 2023, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 448 Baseball in American History**

3 cr. Undergraduate/Graduate.

The origins and development of baseball in the United States, its rise as a spectator sport, and its place in American life and culture.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 448G Baseball in American History**

3 cr. Undergraduate/Graduate.

The origins and development of baseball in the United States, its rise as a spectator sport, and its place in American life and culture.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 449 Popular Culture in America, 1800 to the Present**

3 cr. Undergraduate/Graduate.

Popular culture seen through artifacts and the mass media: popular music, newspapers, magazines, dime novels, film, comics, TV, radio, folk heroes, sports, and 'stars.'

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 449G Popular Culture in America, 1800 to the Present**

3 cr. Undergraduate/Graduate.

Popular culture seen through artifacts and the mass media: popular music, newspapers, magazines, dime novels, film, comics, TV, radio, folk heroes, sports, and 'stars.'

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 450 The History of Milwaukee**

3 cr. Undergraduate/Graduate.

History of the land and peoples of the Milwaukee area, including Native Americans, Yankee-Yorkers, Germans and other immigrants, and African Americans. Attention to municipal governance, annexation, and Milwaukee's unique history of Socialist mayors.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 450G The History of Milwaukee**

3 cr. Undergraduate/Graduate.

History of the land and peoples of the Milwaukee area, including Native Americans, Yankee-Yorkers, Germans and other immigrants, and African Americans. Attention to municipal governance, annexation, and Milwaukee's unique history of Socialist mayors.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 451 History of Wisconsin**

3 cr. Undergraduate/Graduate.

Political, economic and social development of Wisconsin, especially since 1815, with attention to such major personalities as the La Follettes, Kohlers, Turner, Hoard, Wright, and Gale.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2011, Summer 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 451G History of Wisconsin**

3 cr. Undergraduate/Graduate.

Political, economic and social development of Wisconsin, especially since 1815, with attention to such major personalities as the La Follettes, Kohlers, Turner, Hoard, Wright, and Gale.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Last Taught:** Fall 2011, Summer 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 452 History of Religion in American Life to 1870**

3 cr. Undergraduate/Graduate.

Development of different religions in America; role of religion in American society, politics; church attitudes on race and war; lives of religious leaders; theology.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 452G History of Religion in American Life to 1870**

3 cr. Undergraduate/Graduate.

Development of different religions in America; role of religion in American society, politics; church attitudes on race and war; lives of religious leaders; theology.

**Prerequisites:** jr st; satisfaction of English Composition competency req.

**Last Taught:** Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 453 History of Religion in American Life Since 1870**

3 cr. Undergraduate/Graduate.

Development of different religions in America; role of religion in American society, politics; church attitudes on race and war; lives of religious leaders; theology.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Summer 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 453G History of Religion in American Life Since 1870**

3 cr. Undergraduate/Graduate.

Development of different religions in America; role of religion in American society, politics; church attitudes on race and war; lives of religious leaders; theology.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Summer 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 454 God at the Movies: American Religion in Fiction and Film**

3 cr. Undergraduate.

Major themes in American religious history through their presence in American film and literature.

**Prerequisites:** junior standing and satisfaction of English Composition competency requirement.**Course Rules:** Not open for credit to students with credit in HIST 453 taken Fall 2020 or Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 460 The History of Poverty in America**

3 cr. Undergraduate/Graduate.

Social welfare policies and programs (including evolution of social work profession), 1620-present, in light of major developments in American social and intellectual history.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Spring 2008, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 460G The History of Poverty in America**

3 cr. Undergraduate/Graduate.

Social welfare policies and programs (including evolution of social work profession), 1620-present, in light of major developments in American social and intellectual history.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Spring 2008, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 463 History of the American City**

3 cr. Undergraduate/Graduate.

Character of American urbanization and its social and political consequences; responses to 'urban problems' from the early nineteenth century to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 463G History of the American City**

3 cr. Undergraduate/Graduate.

Character of American urbanization and its social and political consequences; responses to 'urban problems' from the early nineteenth century to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 468 The American Feminist Movement**

3 cr. Undergraduate/Graduate.

History of the American feminist movement from colonial times to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Spring 2023, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 468G The American Feminist Movement**

3 cr. Undergraduate/Graduate.

History of the American feminist movement from colonial times to the present.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Last Taught:** Spring 2023, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 473 History of Wisconsin Indians**

3 cr. Undergraduate/Graduate.

History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.

**Prerequisites:** jr st; satisfaction of English Composition competency req.**Course Rules:** AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.**General Education Requirements:** CD**Last Taught:** Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 473G History of Wisconsin Indians**

3 cr. Undergraduate/Graduate.

History of Wisconsin tribes from their earliest years to the present, including European contacts, treaties, the fur trade, and wars.

**Prerequisites:** jr st; satisfaction of English Composition competency req.**Course Rules:** AIS 473 & Hist 473 are jointly offered; they count as repeats of one another.**General Education Requirements:** CD**Last Taught:** Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 474 Topics in North American Indian History:**

3 cr. Undergraduate/Graduate.

Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.**General Education Requirements:** CD**Last Taught:** Fall 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 474G Topics in North American Indian History:**

3 cr. Undergraduate/Graduate.

Detailed examination of such topics as Indian legal status, culture change, Indian education, Pan-Indianism and gender roles.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max. AIS 474 & Hist 474 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Last Taught:** Fall 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 475 American Indian History, Law, and Government**

3 cr. Undergraduate/Graduate.

American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European Legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 475G American Indian History, Law, and Government**

3 cr. Undergraduate/Graduate.

American Indian political systems; their interaction with U.S. Indian policy. Indigenous systems of governance; European Legal justification for colonization; American Indian sovereignty; Federal-Tribal relationship.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** No cr for students w/cr in Hist 474 w/similar topic. AIS 475 & Hist 475 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 489 Internship in History, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of history in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; 300-level or above course in Hist; 2.50 gpa; writ cons supervising faculty member & dept chair.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Fall 2022, Spring 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 496 UROP Apprenticeship**

1-3 cr. Undergraduate.

Advanced-level undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** junior standing; acceptance to UROP; prior or concurrent registration in UROP seminar.

**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before coursework level, content and credits are determined and/or in specially prepared program coursework.

**Prerequisites:** jr st; satisfaction of English Composition competency req; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before coursework level, content and credits are determined and/or in specially prepared program coursework.

**Prerequisites:** jr st; satisfaction of English Composition competency req; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2018, Summer 2003, Summer 2001, Summer 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 593 Seminar on Historical Method: Theory and Approach**

3 cr. Undergraduate.

Systematic exploration of the varieties of historical thought and of common problems in writing history, including causation, generalization, objectivity, purpose and value of history.

**Prerequisites:** junior status and satisfaction of OWC-A requirement.

**Course Rules:** Not open for credit to students with credit in, and does not count as repeat of, HIST 291. Previously HIST 293.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 594 Methods and Theory in the Historical Study of Religion:**

3 cr. Undergraduate/Graduate.

Methods and historiography in the history of religion; focus on a particular religious-historical complex.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 594G Methods and Theory in the Historical Study of Religion:**

3 cr. Undergraduate/Graduate.

Methods and historiography in the history of religion; focus on a particular religious-historical complex.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 595 The Quantitative Analysis of Historical Data**

3 cr. Undergraduate/Graduate.

Statistical methods and the computer in analysis of historical problems: statistics through regression; use of social science computer package; special techniques for handling historical data.

**Prerequisites:** jr st; completion of Oral and Written Communication (OWC) Competency Part A & Quantitative Literacy (QL) Competency Part A GERs.**General Education Requirements:** QL B**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 595G The Quantitative Analysis of Historical Data**

3 cr. Undergraduate/Graduate.

Statistical methods and the computer in analysis of historical problems: statistics through regression; use of social science computer package; special techniques for handling historical data.

**Prerequisites:** jr st; completion of Oral and Written Communication (OWC) Competency Part A & Quantitative Literacy (QL) Competency Part A GERs.**General Education Requirements:** QL B**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 596 Maps as Historical Sources**

3 cr. Undergraduate/Graduate.

Introduction to maps, both as historical artifacts and as instruments for reinterpreting historical realities.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 596G Maps as Historical Sources**

3 cr. Undergraduate/Graduate.

Introduction to maps, both as historical artifacts and as instruments for reinterpreting historical realities.

**Prerequisites:** jr st; completion of GER English Composition competency req.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 597 Fields and Methods in Public History**

3 cr. Undergraduate/Graduate.

Career opportunities for historians in historical agencies, focusing on the work and methods of archivists, museum curators, historic preservationists, oral historians, and administrators.

**Prerequisites:** jr st; completion of GER English Composition competency req; cons coord of public hist.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 597G Fields and Methods in Public History**

3 cr. Undergraduate/Graduate.

Career opportunities for historians in historical agencies, focusing on the work and methods of archivists, museum curators, historic preservationists, oral historians, and administrators.

**Prerequisites:** jr st; completion of GER English Composition competency req; cons coord of public hist.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 600 Seminar in History:**

3 cr. Undergraduate.

In-depth investigation of a period or theme in history. Emphasis on designing and writing a research paper based on primary and secondary sources.

**Prerequisites:** senior standing; satisfaction of GER OWC-A and QL-A; HIST 294 or HIST 593; declared History major.**Course Rules:** May be retaken with change in topic with petition to department chair to 6 cr max.**General Education Requirements:** OWCB**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 681 Senior Thesis I**

3 cr. Undergraduate.

Senior research project for history majors.

**Prerequisites:** senior standing; satisfaction of GER OWC-A; HIST 294(P) or HIST 593(P); declared History major; consent of faculty thesis advisor & department chair.**Last Taught:** Summer 2022, Fall 2021, Summer 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 682 Senior Thesis II**

3 cr. Undergraduate.

Senior research project for history majors.

**Prerequisites:** Hist 681(P); satisfaction of GER English Composition competency req.**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 699 Independent Reading:**

1-6 cr. Undergraduate.

Advanced independent work under the supervision of a history faculty member. Students must submit study proposal. For more information, consult dept chair, [www4.uwm.edu/letsai/history/undergrad/internships.cfm](http://www4.uwm.edu/letsai/history/undergrad/internships.cfm).**Prerequisites:** jr st; satisfaction of GER English Composition competency req; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Fall 2021, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 700 Public History Seminar**

3 cr. Graduate.

Seminar in the history, ethics, and practice of public history; explores case studies, audio-visual resources, digital-humanities tools, professional pathways, interdisciplinary approaches to historical interpretation, and the challenges and opportunities of co-creating projects for public audiences.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**HIST 701 Graduate Internship in Public History**

1-6 cr. Graduate.

Graduate internship at a public-history institution; requirements determined and evaluation arranged on an individual basis.

**Prerequisites:** graduate standing and consent of director of public history.

**Course Rules:** Total of 6 cr required for the public history specialization of the M.A. degree and the public history minor in the PhD degree.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 712 Historiography and Theory of History**

3 cr. Graduate.

Seminar on history of historical writing and thought, including such theoretical problems as objectivity, generalization, the nature of historical explanation, and the value of history.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 713 Historical Research Methods**

3 cr. Graduate.

Seminar addressing evaluation of evidence, quantitative methods, and application of social science methodology to historical research.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022, Spring 2021, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 715 Research Methods in Local History**

3 cr. Graduate.

Seminar on history and methodology of studying small towns, rural areas, cities, and neighborhoods in the United States.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 716 Professional and Pedagogical Issues in History**

3 cr. Graduate.

Seminar on professional and pedagogical aspects of historical work, including course management, lecture writing, grading, and grant writing.

**Prerequisites:** grad st.

**Last Taught:** Spring 2022, Spring 2019, Fall 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 717 History and the New Media**

3 cr. Graduate.

Seminar on uses of new forms of technology in historical research and teaching.

**Prerequisites:** grad st.

**Last Taught:** Fall 2021, Fall 2020, Fall 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 740 Approaches to the Modern I**

3 cr. Graduate.

Seminar on major figures and intellectual forces that have shaped multiple approaches to the modern across the academy.

**Prerequisites:** grad st.

**Course Rules:** English 740, Hist 740, & MALLT 740 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2017, Fall 2011, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 741 Approaches to the Modern II**

3 cr. Graduate.

Seminar on major figures and intellectual forces that have shaped approaches to the modern across periods.

**Prerequisites:** grad st.

**Course Rules:** English 741, Hist 741 & MALLT 741 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2013, Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 800 Colloquium on U.S. History:**

3 cr. Graduate.

Seminar on issues and problems in U.S. history. Specific topics announced in Timetable each time course is offered.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2022, Spring 2021, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 833 Colloquium on Urban History:**

3 cr. Graduate.

Seminar on issues and problems in urban development and institutions. Specific topics announced in Schedule of Classes each time course is offered.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/ chg in topic to 9 cr max.

**Last Taught:** Spring 2012, Spring 2009, Fall 2006, Spring 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 839 Approaches to Global History**

3 cr. Graduate.

Seminar on historiography and practices of global and comparative history.

**Prerequisites:** grad st.

**Last Taught:** Spring 2013, Spring 2011, Fall 2007, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 840 Colloquium on Global History:**

3 cr. Graduate.

Seminar on historical developments from a global or comparative perspective. Specific topics announced in Timetable each time course is offered.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 841 Colloquium on Modern Studies:**

3 cr. Graduate.

Seminar on historical developments from a modern studies perspective. Specific topics and any additional prerequisites announced in Timetable each time course is offered.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2023, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 850 Colloquium on European History:**

3 cr. Graduate.

Seminar on issues and problems in European history. Specific topics announced in Timetable each time course is offered.

**Prerequisites:** graduate standing.**Course Rules:** Retakable with change in topic to 9 cr max.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 880 Colloquium: European Diplomatic History**

3 cr. Graduate.

Studies in modern European diplomatic history, emphasizing historiography, interpretation, and archival sources.

**Prerequisites:** grad st; cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Spring 2020, Fall 2019, Fall 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 900 Seminar on U.S. History:**

3 cr. Graduate.

Topics in U.S. history. Specific topics announced in Timetable each time course is offered.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 904 Seminar in Modern America**

3 cr. Graduate.

Research in United States history since 1921.

**Prerequisites:** grad st.**Last Taught:** Spring 2010, Spring 1984.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 907 Seminar on U.S. Intellectual and Cultural History**

3 cr. Graduate.

Intellectual and cultural figures and movements in U.S. history.

**Prerequisites:** grad st.**Last Taught:** Fall 2014, Fall 2010, Spring 2007, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 940 Seminar on Global History:**

3 cr. Graduate.

Historical developments from a global or comparative perspective. Specific topics announced in Timetable each time course is offered.

**Prerequisites:** graduate standing.**Course Rules:** Retakable with change in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 950 Seminar on European History:**

3 cr. Graduate.

Topics in European history.

**Prerequisites:** graduate standing.**Course Rules:** Retakable with change in topic to 9 cr max. Specific topics announced in the Schedule of Classes each time course is offered.**Last Taught:** Fall 2023, Spring 2022, Fall 2021, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 970 Seminar on European Political History**

3 cr. Graduate.

State, society, revolution, war and empire in European history.

**Prerequisites:** grad st.**Last Taught:** Fall 2011, Spring 2009, Fall 2006, Fall 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 971 Seminar on the History of American Urban Problems**

3 cr. Graduate.

Historical analysis of the current problems of housing, race relations, the powers and functions of municipal government, law enforcement, and city planning in the United States.

**Prerequisites:** grad st.**Course Rules:** Hist 971 & Urb Std 971 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 980 Growth of Urban Society**

3 cr. Graduate.

Seminar in historical, social, and ecological growth and development of urban agglomerations. Comparative framework will be used to examine the urban process.

**Prerequisites:** grad st.**Course Rules:** Hist 980 & Urb Std 980 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2016, Spring 2014, Fall 2010, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 985 Master's Capstone**

1-6 cr. Graduate.

Research credits for MA capstone (thesis, projects, etc.) for all options (A, B, C).

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Retakable to 6 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HIST 989 Master's Level Independent Work**

1-3 cr. Graduate.

Independent study on topics selected in agreement with supervising professor.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable to 9 cr max.**Last Taught:** Summer 2022, Spring 2022, Fall 2021, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 990 Dissertation Research**

1-6 cr. Graduate.

Research or dissertation work for students in the doctoral program in History.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Retakable as necessary to fulfill dissertation requirements.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HIST 999 Doctoral Level Independent Work**

1-3 cr. Graduate.

Independent study on topics selected in agreement with supervising professor.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Hmong Studies (HMONG)

**HMONG 107 First-Semester Hmong Literacy**

3 cr. Undergraduate.

Introduction to literacy skills in Hmong. Intended for speakers of Hmong.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 108 Second-Semester Hmong Literacy**

3 cr. Undergraduate.

Continuation of Hmong 107(FLL 107/Linguis 161).

**Prerequisites:** Hmong 107(FLL 107/Linguis 161)(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** CD, HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 193 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** CD, SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 199 Independent Study:**

1-3 cr. Undergraduate.

Independent work under supervision of faculty or academic staff member. For further information, consult the program director. Students must submit a study proposal.

**Prerequisites:** 2.0 GPA; consent of instructor, program director, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Spring 2023, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 207 Third-Semester Hmong Literacy**

3 cr. Undergraduate.

Continuation of HMONG 108.

**Prerequisites:** HMONG 108(P) or consent of instructor (based on instructor placement).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 208 Fourth-Semester Hmong Literacy**

3 cr. Undergraduate.

Continuation of HMONG 207.

**Prerequisites:** HMONG 207(P) or consent of instructor (based on instructor placement).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 265 Hmong Americans: History, Culture, and Contemporary Life**

3 cr. Undergraduate.

Hmong American history, the effects of the Vietnam War on Hmong culture, and the history of the resulting refugee immigrants in America.

**Prerequisites:** none.

**Course Rules:** Ethnic 265 & Hmong 265 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 289 Internship in Hmong Studies, Lower Division:**

1-6 cr. Undergraduate.

Application of basic principles of Hmong Studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** 2.50 gpa, cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 296 UROP Apprenticeship:**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HMONG 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** Requires only program dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/ chg in topic.**Last Taught:** Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HMONG 489 Internship in Hmong Studies, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles of Hmong Studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.50 gpa, cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HMONG 496 Advanced UROP Apprenticeship:**

1-3 cr. Undergraduate.

Advanced undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior UROP apprenticeship or equiv rsrch experience.**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HMONG 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Last Taught:** UWinterIM 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HMONG 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** Requires only program dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/ chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HMONG 699 Advanced Independent Study:**

1-3 cr. Undergraduate.

Advanced level independent work under supervision of a Hmong Studies faculty or academic staff member. Students must submit a study proposal.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean of Student Academic Services.**Course Rules:** Retakable with change in topic.**Last Taught:** Fall 2022, UWinterIM 2022, Summer 2021, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Honors College (HONORS)

**HONORS 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult department chair.

**Prerequisites:** admission to Honors College; consent of Honors College director.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HONORS 200 Honors Seminar: The Shaping of the Modern Mind:**

3 cr. Undergraduate.

Introduction to honors work through seminar study of basic texts and problems in the development of modern civilization.

**Prerequisites:** satisfaction of OWC-A and consent of Honors College Director.**Course Rules:** Not open to students with credit in Honors courses at the 300-level or above. Retakable once with change in topic. Students may not select CR/NC option.**General Education Requirements:** HU, OWCB**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HONORS 297 Study Abroad:**

1-9 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog & cons Honors College dir.**Course Rules:** Retakable w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HONORS 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Spring 1995, Fall 1994, Spring 1994, Fall 1993.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**HONORS 310 Introduction to Clinical Medicine for Premedical Students**

1 cr. Undergraduate.

Through both lecture/discussion and experience, students will explore various components of the medical profession in a clinical setting.

**Prerequisites:** soph st; Bio Sci 150 or Chem 102; cons both Honors College dir & premedical advisor, L&S.**Last Taught:** Fall 2009, Fall 2008, Fall 2007, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HONORS 350 Honors Seminar in the Humanities:**

3 cr. Undergraduate.

Seminar on interdisciplinary topics or on the broader implications of a faculty member's research.

**Prerequisites:** sophomore standing; HONORS 200(P); consent of Honors College Director.

**Course Rules:** Retakable with change in topic to 9 credits max. Credit/No Credit not permitted.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HONORS 351 University Honors Seminar in the Social Sciences:**

3 cr. Undergraduate.

Seminar on inter-disciplinary topics or on the broader implications of a faculty member's research.

**Prerequisites:** sophomore standing; HONORS 200(P); consent of Honors College Director.

**Course Rules:** Retakable with change in topic to 9 cr max. Credit/no credit not permitted.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HONORS 352 Honors Seminar in the Natural Sciences:**

3 cr. Undergraduate.

Seminar on interdisciplinary topics or on the broader implications of a faculty member's research.

**Prerequisites:** soph st; Honors 200(P); cons Honors College dir.

**Course Rules:** Retakable w/chg in topic to 9H cr max. Cr/no cr not permitted.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HONORS 380 Honors Seminar in the Arts:**

3 cr. Undergraduate.

Selected topics in the theory and practice of creative and expressive arts. Taught by practicing artists.

**Prerequisites:** sophomore standing; HONORS 200(P); and consent of Honors College director.

**Course Rules:** Retakable once with change in topic.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HONORS 497 Honors Study Abroad:**

1-9 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog; cons Honors College dir.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Summer 2022, Summer 2019, Summer 2017, Summer 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HONORS 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Spring 2022, Fall 2020, Spring 1996.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HONORS 685 Honors Tutorial**

1-3 cr. Undergraduate.

Advanced study in interdisciplinary topics.

**Prerequisites:** jr st in Honors College, cons instr & Honors College dir.

**Course Rules:** Retakable to max of 6 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HONORS 686 Research in Honors**

3-6 cr. Undergraduate.

Student assists with a faculty member's current research, then designs and completes original major research paper under the faculty member's supervision.

**Prerequisites:** jr st in Honors College, 9 cr in Honors, cons instr & Honors College dir.

**Course Rules:** Retakable once to 6H cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HONORS 687 Senior Honors Project**

3-6 cr. Undergraduate.

Performance, exhibit, musical composition, or technical/professional project completed under supervision of faculty member. For students in majors in which a thesis is not appropriate.

**Prerequisites:** sr st in Honors College, cons instr & Honors College dir.

**Course Rules:** Not open for cr or enroll to students with Honors 689(ER). Retakable once to 6H cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**HONORS 689 Senior Honors Thesis**

3-6 cr. Undergraduate.

Independent research project under faculty supervision. Honors with Distinction awarded for successful completion of thesis.

**Prerequisites:** sr st in Honors College; cons instr & Honors College dir.

**Course Rules:** Not open for cr or enroll to students with Honors 687(ER). Retakable once to 6H cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Industrial and Labor Relations (IND REL)

**IND REL 701 Industrial and Labor Relations**

3 cr. Graduate.

Industrial relations systems, unions and management as institutions, work place as a socio-economic unit, labor market analysis, human resource management and collective bargaining.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND REL 712 Employment Law**

3 cr. Graduate.

Introduction to federal laws and regulations covering such topics as wage standards, unemployment compensation, osha, alien employment, social security, employee safety and prohibited discrimination.

**Prerequisites:** grad st or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND REL 715 Workplace Dispute Resolution**

3 cr. Graduate.

Examination of the processes for dispute resolution; their usefulness and application in both union and non-union settings.

**Prerequisites:** grad st & Econ 753(P), or cons instr.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND REL 725 Total Rewards Compensation**

3 cr. Graduate.

Advanced workplace perspective for aligning business and reward strategies including developing, administering and evaluating compensation and benefit programs.

**Prerequisites:** grad st or cons instr.**Course Rules:** Counts as a repeat of Ind Rel 800 w/the same topic.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND REL 731 Research Tools for Practitioners in Human Resources and Labor Relations**

3 cr. Graduate.

Planning and carrying out simple surveys; evaluating policies, programs, and procedures in organizations; interpreting, evaluating and using research conducted by others.

**Prerequisites:** grad st; Econ 210(P) or Bus Adm 210(P) or cons instr.**Course Rules:** Ind Rel 731 and BusMgmt 731 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND REL 754 Worker Participation**

3 cr. Graduate.

Analyzes worker participation programs using history, economic and industrial relations theories, and empirical research and case studies.

**Prerequisites:** grad st; Econ 447(451)(P) or cons instr.**Course Rules:** Jointly-offered w/& counts as repeat of Econ 754.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND REL 800 Current Issues in Industrial Relations:**

1-3 cr. Graduate.

Topics course covering subjects such as quality work, innovations, employee testing, dispute resolution.

**Prerequisites:** grad st; Ind Rel 701(P) or cons instr.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND REL 801 Research Project in Industrial and Labor Relations**

3 cr. Graduate.

Work with a faculty advisor on the development and preparation of a research project on a current industrial relations issue.

**Prerequisites:** completion of 24 cr in MHRLR Prog; cons instr.**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND REL 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2021, Fall 2016, Summer 2013, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND REL 921 Internship in Industrial Relations**

1-6 cr. Graduate.

An internship with a company, union or a governmental agency in the field of human resources and labor relations. Project paper required. Retakeable to a total of 6 crs.

**Prerequisites:** grad st; 8 cr in MHRLR Prog completed.**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND REL 999 Independent Study**

1-3 cr. Graduate.

Supervised investigation of a particular topic area either not covered by other industrial relations courses or a level of sophistication beyond that in other courses.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Industrial and Manufacturing Engineering (IND ENG)

**IND ENG 111 Introduction to Engineering**

3 cr. Undergraduate.

Introduction to Engineering Disciplines, problem solving methods, teamwork, technical communication, professionalism, and ethics.

**Prerequisites:** MATH 116(C).**Course Rules:** Counts as repeat of IND ENG 210.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 112 Engineering Drawing & Computer Aided Design/Drafting**

3 cr. Undergraduate.

Visualization, engineering drawing, CAD, Geographic Information Systems (GIS), group project, team work.

**Prerequisites:** MATH 116(P).**Course Rules:** Counts as repeat of of IND ENG 101.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 290 Elementary Topics in Systems Design**

1-3 cr. Undergraduate.

Selected topics of current interest in an area of systems-design for freshmen and sophomore students.

**Prerequisites:** consent of instructor.**Course Rules:** Repeatable with change in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 299 Independent Reading and Work**

1-3 cr. Undergraduate.

Credit hours to be arranged between student and staff on an individual basis.

**Prerequisites:** consent of instructor.

**Last Taught:** Spring 1994, Spring 1987.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 350 Manufacturing Processes**

3 cr. Undergraduate.

Broad study of processes and equipment used in modern production.

Design considerations, economic factors, automation, metals and plastics processing, fabrication of electronic materials.

**Prerequisites:** MATLENG 201(P).

**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 360 Engineering Economic Analysis**

3 cr. Undergraduate.

Concept of time value of money. Economical evaluation of alternate projects and replacement policies using methods such as present worth, rate of return, and annual cost. Engineering investment decision analysis.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 367 Introductory Statistics for Physical Sciences and Engineering Students**

3 cr. Undergraduate.

Concepts of probability and statistics; probability distributions of engineering applications; sampling distributions; hypothesis testing; parameter estimation; regression analysis.

**Prerequisites:** B- or better in MATH 211(P), B- or better in MATH 213(P), C or better in MATH 221(P), or C or better in MATH 231(P)

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 369 Introduction to Probability and Statistical Inference**

1 cr. Undergraduate.

Concepts of probability and statistics.

**Prerequisites:** MATH 221(P) or MATH 231(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 370 Introduction to Operations Analysis**

3 cr. Undergraduate.

Functions and philosophies of the contemporary engineer in the production/service environment as it is planned, designed, manufactured/delivered, maintained, controlled and distributed.

**Prerequisites:** MATH 233(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 390 Senior Thesis**

1-3 cr. Undergraduate.

Independent research under the direction of a faculty member; submission of a written thesis is required.

**Prerequisites:** senior standing and consent of instructor.

**Course Rules:** 3 cr total required. Need not all be taken during the same semester.

**Last Taught:** Summer 1988, Spring 1987, Fall 1986, Spring 1986.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 455 Operations Research I**

3 cr. Undergraduate/Graduate.

Fundamental optimization methods; linear programming, integer programming, network models, and dynamic programming methods of operations research. Modeling and applications of these methods in practical situations.

**Prerequisites:** junior standing and MATH 233(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 455G Operations Research I**

3 cr. Undergraduate/Graduate.

Fundamental optimization methods; linear programming, integer programming, network models, and dynamic programming methods of operations research. Modeling and applications of these methods in practical situations.

**Prerequisites:** junior standing and MATH 233(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 465 Operations Research II**

3 cr. Undergraduate/Graduate.

Concepts and methods of probabilistic modeling in queueing, forecasting, and inventory problems for design and analysis of manufacturing and service operations.

**Prerequisites:** junior standing and IND ENG 367(P) or MTHSTAT 467(P) or equiv course in statistics.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 465G Operations Research II**

3 cr. Undergraduate/Graduate.

Concepts and methods of probabilistic modeling in queueing, forecasting, and inventory problems for design and analysis of manufacturing and service operations.

**Prerequisites:** junior standing and IND ENG 367(P) or MTHSTAT 467(P) or equiv course in statistics.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 470 Methods Engineering**

3 cr. Undergraduate/Graduate.

Use of production machine for producing a simple product. Study of production sequence, material flow, plant layout; time and motion; and the economics of materials and methods of fabrication. Redesign of the product and the methods of production to minimize total costs within physical, social and aesthetic constraints.

**Prerequisites:** junior standing and IND ENG 367(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 470G Methods Engineering**

3 cr. Undergraduate/Graduate.

Use of production machine for producing a simple product. Study of production sequence, material flow, plant layout; time and motion; and the economics of materials and methods of fabrication. Redesign of the product and the methods of production to minimize total costs within physical, social and aesthetic constraints.

**Prerequisites:** junior standing and IND ENG 367(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 475 Simulation Methodology**

3 cr. Undergraduate/Graduate.

Fundamentals of discrete-event simulation. Random number and random variable generation for simulation modeling and analysis using simulation software.

**Prerequisites:** IND ENG 367(P) and concurrent enrollment in one of the following: COMPSCI 151(C), COMPSCI 202(C), COMPSCI 240(C), or COMPSCI 250(C).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 475G Simulation Methodology**

3 cr. Undergraduate/Graduate.

Fundamentals of discrete-event simulation. Random number and random variable generation for simulation modeling and analysis using simulation software.

**Prerequisites:** IND ENG 367(P) and concurrent enrollment in one of the following: COMPSCI 151(C), COMPSCI 202(C), COMPSCI 240(C), or COMPSCI 250(C).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 485 Senior Design Project**

3 cr. Undergraduate.

Capstone design projects involving design of a production/service system. Progress reports, final report, and presentation.

**Prerequisites:** senior standing, IND ENG 370(P), IND ENG 455(P), IND ENG 465(C), IND ENG 470(C), IND ENG 475(P), IND ENG 571(C), IND ENG 580(C), IND ENG 583(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 499 Ad Hoc:**

1-12 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

**Prerequisites:** consent of instructor; additional prerequisites may be assigned to specific topics.

**Course Rules:** Requires department and associate dean approval. In exceptional circumstances, can be offered in one additional term. May be retaken with change in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 540 Foundations of Systems Engineering**

3 cr. Undergraduate/Graduate.

Fundamental concepts of systems engineering to provide the students the basic knowledge to facilitate transformation of operational needs to a well-defined system.

**Prerequisites:** senior standing or graduate standing.

**Last Taught:** Fall 2004, Spring 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 540G Foundations of Systems Engineering**

3 cr. Undergraduate/Graduate.

Fundamental concepts of systems engineering to provide the students the basic knowledge to facilitate transformation of operational needs to a well-defined system.

**Prerequisites:** senior standing or graduate standing.

**Last Taught:** Fall 2004, Spring 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 550 Control of Automated Manufacturing Systems**

3 cr. Undergraduate/Graduate.

Theoretical and practical skills to design and control automated manufacturing systems and industrial processes through science-based theoretical advancements and state-of-the-art industrial applications.

**Prerequisites:** junior standing, ELECENG 234(P), and ELECENG 301(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 550G Control of Automated Manufacturing Systems**

3 cr. Undergraduate/Graduate.

Theoretical and practical skills to design and control automated manufacturing systems and industrial processes through science-based theoretical advancements and state-of-the-art industrial applications.

**Prerequisites:** junior standing, ELECENG 234(P), and ELECENG 301(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 555 Manufacturing Systems Integration**

3 cr. Undergraduate/Graduate.

Integration and interfacing of computerized manufacturing systems, programmable logic controllers and sequential programming, sensor implementation strategies, automated fixturing and robotic workcell creation.

**Prerequisites:** jr st; Ind Eng 450(R).

**Last Taught:** Spring 2004, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 555G Manufacturing Systems Integration**

3 cr. Undergraduate/Graduate.

Integration and interfacing of computerized manufacturing systems, programmable logic controllers and sequential programming, sensor implementation strategies, automated fixturing and robotic workcell creation.

**Prerequisites:** jr st; Ind Eng 450(R).

**Last Taught:** Spring 2004, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 571 Quality Control**

3 cr. Undergraduate/Graduate.

Statistical process quality design and control. Process control charts, six sigma and process capability assessment.

**Prerequisites:** junior standing and IND ENG 367(P), or equivalent course in statistics; or graduate standing.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 571G Quality Control**

3 cr. Undergraduate/Graduate.

Statistical process quality design and control. Process control charts, six sigma and process capability assessment.

**Prerequisites:** junior standing and IND ENG 367(P), or equivalent course in statistics; or graduate standing.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**IND ENG 572 Reliability Engineering**

3 cr. Undergraduate/Graduate.

Concepts and methods for designing, testing, and estimation of component and system reliabilities. Failures/failure rates; life tests; series-parallel and standby systems; stress levels; redundancy and reliability apportionment; maintainability, availability, and safety; reliability design/implementation.

**Prerequisites:** junior standing and IND ENG 467(P) or equivalent.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 572G Reliability Engineering**

3 cr. Undergraduate/Graduate.

Concepts and methods for designing, testing, and estimation of component and system reliabilities. Failures/failure rates; life tests; series-parallel and standby systems; stress levels; redundancy and reliability apportionment; maintainability, availability, and safety; reliability design/implementation.

**Prerequisites:** junior standing and IND ENG 467(P) or equivalent.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 575 Design of Experiments**

3 cr. Undergraduate/Graduate.

Statistical principles, designs and analyses for planned experimentation; factorial and fractional factorial designs, inner-outer designs, robustness, confounding and blocking, and response surface methodology.

**Prerequisites:** IND ENG 367(P) or equivalent.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 575G Design of Experiments**

3 cr. Undergraduate/Graduate.

Statistical principles, designs and analyses for planned experimentation; factorial and fractional factorial designs, inner-outer designs, robustness, confounding and blocking, and response surface methodology.

**Prerequisites:** IND ENG 367(P) or equivalent.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 577 Dimensional Measurement and Tolerancing**

3 cr. Undergraduate/Graduate.

Measurement techniques; implementation and integration of precision measuring equipment and gages in manufacturing systems; geometric dimensioning and tolerancing; and devices for statistical process control.

**Prerequisites:** senior standing and IND ENG 467(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 577G Dimensional Measurement and Tolerancing**

3 cr. Undergraduate/Graduate.

Measurement techniques; implementation and integration of precision measuring equipment and gages in manufacturing systems; geometric dimensioning and tolerancing; and devices for statistical process control.

**Prerequisites:** senior standing and IND ENG 467(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 580 Ergonomics**

3 cr. Undergraduate/Graduate.

Broad study of ergonomics principles and stresses in design and analysis of workplaces and physical environment.

**Prerequisites:** IND ENG 367(P); CIV ENG 201(P) or CIV ENG 203(P).

**Course Rules:** 2 hrs lec & 2 hrs lab/week.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 580G Ergonomics**

3 cr. Undergraduate/Graduate.

Broad study of ergonomics principles and stresses in design and analysis of workplaces and physical environment.

**Prerequisites:** IND ENG 367(P); CIV ENG 201(P) or CIV ENG 203(P).

**Course Rules:** 2 hrs lec & 2 hrs lab/week.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 582 Ergonomic Job Evaluation Techniques**

3 cr. Undergraduate/Graduate.

Review of popular, contemporary methods of job evaluation for risk of low back pain and distal upper extremity.

**Prerequisites:** senior standing and IND ENG 580(P).

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 582G Ergonomic Job Evaluation Techniques**

3 cr. Undergraduate/Graduate.

Review of popular, contemporary methods of job evaluation for risk of low back pain and distal upper extremity.

**Prerequisites:** senior standing and IND ENG 580(P).

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 583 Facility Layout and Material Handling**

3 cr. Undergraduate/Graduate.

Basics in facility planning; design and integration of plant layout, material handling, and warehousing; quantitative models for facility location problems.

**Prerequisites:** senior standing, IND ENG 370(P), and IND ENG 455(C).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 583G Facility Layout and Material Handling**

3 cr. Undergraduate/Graduate.

Basics in facility planning; design and integration of plant layout, material handling, and warehousing; quantitative models for facility location problems.

**Prerequisites:** senior standing, IND ENG 370(P), and IND ENG 455(C).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 584 Biodynamics of Human Motion**

3 cr. Undergraduate/Graduate.

Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab.

**Prerequisites:** junior standing, ELECENG 234(P), and CIV ENG 202(C).

**Course Rules:** IND ENG 584 and MECHENG 584 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 584G Biodynamics of Human Motion**

3 cr. Undergraduate/Graduate.

Techniques for collecting, analyzing and interpreting human motion data. Special emphasis will be placed on performing data analysis using the software package, Matlab.

**Prerequisites:** junior standing, ELECENG 234(P), and CIV ENG 202(C).**Course Rules:** IND ENG 584 and MECHENG 584 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 587 Lean Production Systems**

3 cr. Undergraduate/Graduate.

An integrated approach to efficient manufacturing of products with high quality, low cost, and timely delivery including one-piece flow, pull system, and visual factory.

**Prerequisites:** IND ENG 350(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 587G Lean Production Systems**

3 cr. Undergraduate/Graduate.

An integrated approach to efficient manufacturing of products with high quality, low cost, and timely delivery including one-piece flow, pull system, and visual factory.

**Prerequisites:** IND ENG 350(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 590 Topics in Industrial and Systems Engineering:**

1-3 cr. Undergraduate/Graduate.

Selected topics of current interest in an area of systems design.

**Prerequisites:** senior standing.**Course Rules:** May be retaken with change in topic to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 590G Topics in Industrial and Systems Engineering:**

1-3 cr. Undergraduate/Graduate.

Selected topics of current interest in an area of systems design.

**Prerequisites:** senior standing.**Course Rules:** May be retaken with change in topic to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 699 Independent Study**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** junior standing and consent of instructor.**Course Rules:** Limited to max of 6 cr applied toward undergraduate degree.**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 699G Independent Study**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** junior standing and consent of instructor.**Course Rules:** Limited to max of 6 cr applied toward undergraduate degree.**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 700 CEAS Graduate Seminar**

1-3 cr. Graduate.

Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.

**Prerequisites:** graduate standing.**Course Rules:** CV ENG 700, COMPSCI 700, ELECENG 700, IND ENG 700, MATLENG 700 and MECHENG 700 are jointly offered and count as repeats of one another**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 715 Data Acquisition and Visualization for Decision Making**

3 cr. Graduate.

Addresses big data challenges that need to be conquered when converting data into information. Students will gain knowledge of current data acquisition techniques, especially in operations.

**Prerequisites:** graduate standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 716 Engineering Statistical Analysis**

3 cr. Graduate.

Statistical methods and their applications to solve engineering decision-making problems, integrating computer usage. Inference, probability and probability distributions, data analysis, regression analysis, and anova.

**Prerequisites:** graduate standing.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 717 Operations Research in Engineering Management**

3 cr. Graduate.

Various operations research techniques for engineering management decision-making. Linear programming, integer programming, network models, multi-objective decision-making, decision analysis, and queuing models.

**Prerequisites:** graduate standing and IND ENG 716(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 741 Foundational Technologies for Connected Systems**

1 cr. Graduate.

World trends and innovations that enabled current connectedness of enterprises, with a key focus to manufacturing enterprises. Introduction to business models and company culture that enabled the connected enterprise.

**Prerequisites:** graduate standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 742 Cloud Architecture for Connected Systems**

1 cr. Graduate.

Principles and concepts that affect a workforce that interacts with cloud infrastructure technologies, IoT, architecture, performance metrics, security aspects, and business factors.

**Prerequisites:** graduate standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 750 Group Technology and Process Planning**

3 cr. Graduate.

Group technology and computer-aided process planning; classification and coding schemes, machine loading, production planning/scheduling models, process planning, expert systems in capp.

**Prerequisites:** graduate standing, IND ENG 450(P) and IND ENG 455(P).

**Last Taught:** Spring 2007, Spring 2003, Spring 2001, Fall 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 751 Flexible Manufacturing Systems**

3 cr. Graduate.

Hierarchy of manufacturing control, process control, advanced concepts in fms, optimal design planning and production scheduling in fms.

**Prerequisites:** graduate standing, IND ENG 450(P) and IND ENG 455(P).

**Last Taught:** Spring 2023, Fall 2021, Fall 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 765 Operations Research Methods**

3 cr. Graduate.

Formulation and application of mathematical models for the design of industrial systems. Mathematical programming, network flow, decision theory and simulation techniques are used for solving single and multi-stage production, inventory and service problems.

**Prerequisites:** graduate standing, IND ENG 465, and IND ENG 767.

**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 772 Facilities Planning**

3 cr. Graduate.

Modern techniques in facilities planning, location of the facility; systems approach, factors and evaluation. Systematic layout planning, computerized methods. Assembly line balancing, simulation techniques. Cpm and pert. Projects and laboratory work.

**Prerequisites:** graduate standing, IND ENG 445(P) and IND ENG 470(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 777 Scheduling and realtime resource management**

3 cr. Graduate.

Scheduling (allocation of resources over time) and realtime resource management techniques in highly informative production and service systems.

**Prerequisites:** graduate standing, IND ENG 370(P), IND ENG 475(P), IND ENG 455(P), and IND ENG 465(P); or consent of instructor.

**Last Taught:** Spring 2020, Spring 2017, Spring 2015, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 780 Advanced Ergonomics - Low Back Pain**

3 cr. Graduate.

An in-depth study of lbp causes, risk factors, preventive approaches, job evaluation/design techniques. 2 hr lec & 2 hr lab/week.

**Prerequisites:** graduate standing, IND ENG 580(P); and a course in anatomy & physiology; or consent of instructor.

**Last Taught:** Spring 2019, Spring 2013, Fall 2009, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 783 Advanced Ergonomics - Upper Extremity**

3 cr. Graduate.

In depth study of musculoskeletal disorders of upper extremity, personal and job risk factors, job analysis, design and prevention. 2 hr lec & 2 hr lab/week.

**Prerequisites:** graduate standing, IND ENG 580(P), and a course in Anatomy & Physiology; or consent of instructor.

**Last Taught:** Spring 2011, Fall 2008, Fall 2006, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 790 Design Project**

2-3 cr. Graduate.

Integration and application of concepts learned in other ergonomic courses to analyze and abate ergonomic hazards in a scientific manner.

**Prerequisites:** graduate standing, IND ENG 780(P), IND ENG 783(P), IND ENG 786(P), and IND ENG 788(P); or consent of instructor.

**Course Rules:** IND ENG 790 and OCCTHPY 790 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2007, Fall 2004, Fall 2003, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 880 Bioengineering Seminar**

1 cr. Graduate.

Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.

**Prerequisites:** graduate standing.

**Course Rules:** CIV ENG 880, COMPSCI 880, ELECENG 880, IND ENG 880, MATLENG 880, and MECHENG 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr max.

**Last Taught:** Fall 2018, Spring 2018, Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2020, Summer 2017, Summer 2016, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 890 Advanced Topics in Industrial and Systems Engineering:**

1-3 cr. Graduate.

Advanced topics of current interest in an area of systems-design; review of recent literature. Subject matter may be student initiated. Specific topics and any additional prerequisites will be announced in the Schedule of Classes.

**Prerequisites:** graduate standing.

**Course Rules:** May be repeated with change in topic to max of 15 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 990 Masters Thesis**

1-9 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 12 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**IND ENG 998 Doctoral Thesis**

1-12 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor and graduate program committee.**Course Rules:** Repeatable.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**IND ENG 999 Advanced Independent Study**

1-3 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor and graduate program committee.**Course Rules:** Repeatable to 15 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Information Studies (INFOST)

**INFOST 101 Information Literacy**

1 cr. Undergraduate.

Emphasis on techniques in information gathering for students to build expertise in exploring information sources and services. Provides foundation for independent life-long learning experiences.

**Prerequisites:** none.**Last Taught:** Spring 2013, Fall 2012, Spring 2012, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 105 Orientation for Information Science & Technology Students**

1 cr. Undergraduate.

Provides students with an understanding of the Information Science and Technology major, academic requirements, career development, and strategies for academic and personal success.

**Prerequisites:** none.**Course Rules:** Counts as a repeat of INFOST 291 with similar topic.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 110 Introduction to Information Science and Technology**

3 cr.

Introduces basic issues in information science, including the nature of information, information policy, knowledge organization, information services, and the relationships between information technologies and society.

**Prerequisites:** none.**Course Rules:** CGS IST 110 and INFOST 110 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 110X Introduction to Information Science and Technology**

3 cr.

Introduces basic issues in information science, including the nature of information, information policy, knowledge organization, information services, and the relationships between information technologies and society.

**Prerequisites:** none.**Course Rules:** CGS IST 110 and INFOST 110 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 120 Information Technology Ethics**

3 cr.

Comprehensive overview of the current ethical issues in information and technology use.

**Prerequisites:** none.**Course Rules:** CGS IST 120 and INFOST 120 are jointly offered and count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 120X Information Technology Ethics**

3 cr.

Comprehensive overview of the current ethical issues in information and technology use.

**Prerequisites:** none.**Course Rules:** CGS IST 120 and INFOST 120 are jointly offered and count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 150 Introduction to Information Resources on the Internet**

3 cr. Undergraduate.

Overview of the internet and its resources and services. Introduction to information retrieval and research skills on the internet.

**Prerequisites:** none.**Last Taught:** Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 150X Introduction to Information Resources on the Internet**

3 cr. Undergraduate.

Overview of the internet and its resources and services. Introduction to information retrieval and research skills on the internet.

**Prerequisites:** none.**Last Taught:** Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 210 Information Resources for Research**

3 cr. Undergraduate.

Introduction to research processes necessary for effective, college-level, library research. Emphasizes analysis of research questions, development of search strategies, and critical evaluation of materials.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Summer 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 210X Information Resources for Research**

3 cr. Undergraduate.

Introduction to research processes necessary for effective, college-level, library research. Emphasizes analysis of research questions, development of search strategies, and critical evaluation of materials.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Summer 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 240 Web Design I**

3 cr.

Uses popular authoring tools to cover the basics of organizing information.

**Prerequisites:** none.

**Course Rules:** CGS IST 240 and INFOST 240 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 240X Web Design I**

3 cr.

Uses popular authoring tools to cover the basics of organizing information.

**Prerequisites:** none.

**Course Rules:** CGS IST 240 and INFOST 240 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 250 Introduction to Network and Systems Administration**

3 cr. Undergraduate.

Introduction to the fundamental concepts of network and systems administration.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 250X Introduction to Network and Systems Administration**

3 cr. Undergraduate.

Introduction to the fundamental concepts of network and systems administration.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 290 Project Teams, Leadership, and Communication**

3 cr. Undergraduate.

Provides the opportunity for IST students to gain knowledge and experience of relevant transferable professional skills in project management, teamwork, and communication.

**Prerequisites:** INFOST 110(C) and Information Science & Technology major.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 290X Project Teams, Leadership, and Communication**

3 cr. Undergraduate.

Provides the opportunity for IST students to gain knowledge and experience of relevant transferable professional skills in project management, teamwork, and communication.

**Prerequisites:** INFOST 110(C) and Information Science & Technology major.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 291 Special Topics in Information Science and Technology:**

1-3 cr. Undergraduate.

New developments and research in information science & technology. Specific credits and any additional prereqs announced in Schedule of Classes whenever course is offered.

**Prerequisites:** none.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2021, Fall 2019, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2020, Spring 2018, Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 310 Human Factors in Information Seeking and Use**

3 cr. Undergraduate.

Overview of human information needs, seeking, and processing, including human factors in the design, development and evaluation of information services.

**Prerequisites:** InfoSt 110(C).

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 310X Human Factors in Information Seeking and Use**

3 cr. Undergraduate.

Overview of human information needs, seeking, and processing, including human factors in the design, development and evaluation of information services.

**Prerequisites:** InfoSt 110(C).

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 315 Knowledge Organization for Information Science and Technology**

3 cr. Undergraduate.

Introduction to the organization of knowledge for information science and technology. Covers theory and construction of knowledge organization systems (taxonomies, ontologies, controlled vocabularies, metadata schema) and data structures for information sharing.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 320 Web Design II**

3 cr. Undergraduate.

Examination and utilization of advanced technologies and practices being employed in web usability and design.

**Prerequisites:** InfoSt 240(P).

**Course Rules:** Counts as repeat of InfoSt 491 Advanced Web Design.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 320X Web Design II**

3 cr. Undergraduate.

Examination and utilization of advanced technologies and practices being employed in web usability and design.

**Prerequisites:** InfoSt 240(P).**Course Rules:** Counts as repeat of InfoSt 491 Advanced Web Design.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 325 Information Security I**

3 cr. Undergraduate.

Introduction to issues and practices related to the protection of information and other digital assets.

**Prerequisites:** sophomore standing or greater.**Course Rules:** Counts as repeat of INFOST 491 with the same topic.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 330 Electronic Information Retrieval Systems**

3 cr. Undergraduate.

Basics of using electronic information retrieval systems, emphasizing internet and commercial services, in order to obtain information. Includes weekly laboratory sessions.

**Prerequisites:** InfoSt 210(P) & 110(P).**Last Taught:** Spring 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 330X Electronic Information Retrieval Systems**

3 cr. Undergraduate.

Basics of using electronic information retrieval systems, emphasizing internet and commercial services, in order to obtain information. Includes weekly laboratory sessions.

**Prerequisites:** InfoSt 210(P) & 110(P).**Last Taught:** Spring 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 340 Introduction to Systems Analysis**

3 cr. Undergraduate.

Theories, principles, and tools for planning, organizing, assessing, and evaluating information. Emphasizes the importance of user's perspective. Covers the various stages of systems analysis and outlines the appropriate methods for each stage.

**Prerequisites:** InfoSt 310(C) & 410(C).**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 340X Introduction to Systems Analysis**

3 cr. Undergraduate.

Theories, principles, and tools for planning, organizing, assessing, and evaluating information. Emphasizes the importance of user's perspective. Covers the various stages of systems analysis and outlines the appropriate methods for each stage.

**Prerequisites:** InfoSt 310(C) & 410(C).**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 350 Introduction to Application Development**

3 cr. Undergraduate.

Introduction to the fundamental concepts of application development. Basic application development concepts will be explained, analyzed, and practiced.

**Prerequisites:** InfoSt 110(C) or cons instr.**Course Rules:** Counts as repeat of InfoSt 291 with topic Intro to Programming.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 350X Introduction to Application Development**

3 cr. Undergraduate.

Introduction to the fundamental concepts of application development. Basic application development concepts will be explained, analyzed, and practiced.

**Prerequisites:** InfoSt 110(C) or cons instr.**Course Rules:** Counts as repeat of InfoSt 291 with topic Intro to Programming.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 370 Data Analysis and Visualization for the Information Professional**

3 cr. Undergraduate.

Introduction to data analysis and visualization using simple statistical analyses to create graphical depictions of data that can improve comprehension, communication, and decision making.

**Prerequisites:** satisfaction of GER QL Part A.**General Education Requirements:** QL B**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 370X Data Analysis and Visualization for the Information Professional**

3 cr. Undergraduate.

Introduction to data analysis and visualization using simple statistical analyses to create graphical depictions of data that can improve comprehension, communication, and decision making.

**Prerequisites:** satisfaction of GER QL Part A.**General Education Requirements:** QL B**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 375 Multimedia Web Design**

3 cr. Undergraduate.

Fundamentals of interactive Web development and scripting, allowing students to create Web animations and render interactivity of information on the Web.

**Prerequisites:** InfoSt 240(P).**Course Rules:** Counts as repeat of InfoSt 491 with topic of Flash.**Last Taught:** Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 375X Multimedia Web Design**

3 cr. Undergraduate.

Fundamentals of interactive Web development and scripting, allowing students to create Web animations and render interactivity of information on the Web.

**Prerequisites:** InfoSt 240(P).

**Course Rules:** Counts as repeat of InfoSt 491 with topic of Flash.

**Last Taught:** Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 383 Native Mobile Applications**

3 cr. Undergraduate.

Fundamentals of native mobile application development including development environments, mobile OS considerations, and the potential and limitations of mobile applications.

**Prerequisites:** INFOST 350(P) or consent of instructor.

**Course Rules:** Counts as repeat of INFOST 491 w/ similar topic.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 385 Information Security II**

3 cr. Undergraduate.

Advanced topics and practices in information security including social, technological, educational and economic implications of information security and privacy.

**Prerequisites:** InfoSt 325(P).

**Course Rules:** Counts as repeat of InfoSt(L&I Sci) 491 w/same topic.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 399 Independent Study**

1-3 cr. Undergraduate.

Guided readings or research under faculty supervision.

**Prerequisites:** jr st; 24 cr in IST major; cons instr.

**Course Rules:** May be retaken to max of 6 cr.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, UWinterIM 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 408 Nonprofit Information Technology**

3 cr. Undergraduate.

Provides experiential project-based learning opportunities to UWM students while working on a technology project for a local nonprofit organization.

**Prerequisites:** none.

**Course Rules:** ART 408, DAC 408, and INFOST 408 are jointly offered and count as repeats of one another. Repeatable to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 410 Database Information Retrieval Systems**

3 cr. Undergraduate.

Introduces the design and development of different types of electronic information systems, including database types, design issues, application development, and software selection and evaluation.

**Prerequisites:** sophomore standing.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 410X Database Information Retrieval Systems**

3 cr. Undergraduate.

Introduces the design and development of different types of electronic information systems, including database types, design issues, application development, and software selection and evaluation.

**Prerequisites:** sophomore standing.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 430 Multimedia Application Development**

3 cr. Undergraduate.

This course covers the basic concepts of multimedia and their applications in information services, including image representation and processing and multimedia information delivery.

**Prerequisites:** InfoSt(L&I Sci) 310(P).

**Last Taught:** Fall 2016, Fall 2015, Spring 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 440 Web Application Development**

3 cr. Undergraduate.

The interactive web design server interaction. Special emphasis on database connectivity and application development on the Internet.

**Prerequisites:** INFOST 240(P), INFOST 350(P), and INFOST 410(C); or consent of instructor.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 440X Web Application Development**

3 cr. Undergraduate.

The interactive web design server interaction. Special emphasis on database connectivity and application development on the Internet.

**Prerequisites:** INFOST 240(P), INFOST 350(P), and INFOST 410(C); or consent of instructor.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 465 Legal Aspects of Information Products and Services**

3 cr. Undergraduate/Graduate.

Introduction to legal environment surrounding development and use of information products and services, including intellectual property, and issues specific to internet and other digital mediums.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 465G Legal Aspects of Information Products and Services**

3 cr. Undergraduate/Graduate.

Introduction to legal environment surrounding development and use of information products and services, including intellectual property, and issues specific to internet and other digital mediums.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 465X Legal Aspects of Information Products and Services**

3 cr. Undergraduate/Graduate.

Introduction to legal environment surrounding development and use of information products and services, including intellectual property, and issues specific to internet and other digital mediums.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 481 Web Application Penetration Testing**

3 cr. Undergraduate.

Introduction to the cyber security concept of web application penetration testing, covering the OWASP Top 10 web vulnerabilities using hands-on labs and activities.

**Prerequisites:** junior standing.**Course Rules:** Counts as a repeat of INFOST 491 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 490 Senior Capstone**

3 cr. Undergraduate.

Analysis, design, development and presentation of an information retrieval system project for an information organization.

**Prerequisites:** senior standing; INFOST 290(P), INFOST 340(P), INFOST 410(P), and INFOST 440(P).**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 490X Senior Capstone**

3 cr. Undergraduate.

Analysis, design, development and presentation of an information retrieval system project for an information organization.

**Prerequisites:** senior standing; INFOST 290(P), INFOST 340(P), INFOST 410(P), and INFOST 440(P).**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 491 Advanced Topics in Information Science & Technology**

1-3 cr. Undergraduate.

Advanced examination of emerging developments and research in information science & technology.

**Prerequisites:** jr st; additional prereq announced each offering.**Course Rules:** May be retaken w/chg in topic to 15 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 495 Information Internship**

1-3 cr. Undergraduate.

Field experience of 50-150 hours under faculty and field supervisor guidance. Student must also complete a supervised field project.

**Prerequisites:** 12 cr in the IST major; cons instr.**Course Rules:** May enroll in 2 sections in same term to 9 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2019, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2019, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 501 Foundations of Library and Information Science**

3 cr. Undergraduate/Graduate.

Historical introduction to library and information science (LIS); outline of the role of information agencies in disseminating knowledge to users; overview of research in LIS.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 501G Foundations of Library and Information Science**

3 cr. Undergraduate/Graduate.

Historical introduction to library and information science (LIS); outline of the role of information agencies in disseminating knowledge to users; overview of research in LIS.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 511 Organization of Information**

3 cr. Undergraduate/Graduate.

Introduction to basic concepts in the theoretical, practical, and technological aspects of information organization.

**Prerequisites:** jr st.**Course Rules:** Not open for cr to students with cr in InfoSt(L&I Sci) 530.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 511G Organization of Information**

3 cr. Undergraduate/Graduate.

Introduction to basic concepts in the theoretical, practical, and technological aspects of information organization.

**Prerequisites:** jr st.**Course Rules:** Not open for cr to students with cr in InfoSt(L&I Sci) 530.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 520 Managing Library Collections**

3 cr. Undergraduate/Graduate.

Theory and practice of collection management across formats including selection tools and criteria, acquisition and evaluation of collections, deselection, preservation, and other collection development topics.

**Prerequisites:** jr st; InfoSt(L&I Sci) 501(P) or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 520G Managing Library Collections**

3 cr. Undergraduate/Graduate.

Theory and practice of collection management across formats including selection tools and criteria, acquisition and evaluation of collections, deselection, preservation, and other collection development topics.

**Prerequisites:** jr st; InfoSt(L&I Sci) 501(P) or cons instr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**INFOST 521 Introduction to Reference Services and Resources**

3 cr. Undergraduate/Graduate.

An investigation into reference services, reference interviews, and organization, including critical examination of basic reference sources.

**Prerequisites:** jr st; INFOST 501(P), INFOST 571(P); or consent of instructor.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 521G Introduction to Reference Services and Resources**

3 cr. Undergraduate/Graduate.

An investigation into reference services, reference interviews, and organization, including critical examination of basic reference sources.

**Prerequisites:** jr st; INFOST 501(P), INFOST 571(P); or consent of instructor.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 524 Management of Libraries and Information Services**

3 cr. Undergraduate/Graduate.

The library/information center as a service organization. Management of the library/information center: planning, budgeting, decision making, leadership styles, motivation, communication, personnel and financial management.

**Prerequisites:** jr st; InfoSt( L&I Sci) 501(P); or cons instr.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 524G Management of Libraries and Information Services**

3 cr. Undergraduate/Graduate.

The library/information center as a service organization. Management of the library/information center: planning, budgeting, decision making, leadership styles, motivation, communication, personnel and financial management.

**Prerequisites:** jr st; InfoSt( L&I Sci) 501(P); or cons instr.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 543 Student Teaching Experience in School Libraries**

6 cr. Undergraduate/Graduate.

Student teaching experience in a school library for students who are working towards initial licensure in K-12 school library media.

**Prerequisites:** junior standing; school library media certification program - students on Pathway 2A & 2B only; INFOST 520(P); INFOST 645(P) or INFOST 646(P); INFOST 642(P); and INFOST 643(P); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 543G Student Teaching Experience in School Libraries**

6 cr. Undergraduate/Graduate.

Student teaching experience in a school library for students who are working towards initial licensure in K-12 school library media.

**Prerequisites:** junior standing; school library media certification program - students on Pathway 2A & 2B only; INFOST 520(P); INFOST 645(P) or INFOST 646(P); INFOST 642(P); and INFOST 643(P); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 547 User-Centered Interaction Design**

3 cr. Undergraduate/Graduate.

Introduction of human-computer interaction theories and design processes. Emphasis is on applied user experience (UX) design.

**Prerequisites:** senior standing.

**Course Rules:** COMPSCI 547 and INFOST 547 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 547G User-Centered Interaction Design**

3 cr. Undergraduate/Graduate.

Introduction of human-computer interaction theories and design processes. Emphasis is on applied user experience (UX) design.

**Prerequisites:** senior standing.

**Course Rules:** COMPSCI 547 and INFOST 547 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 571 Information Access and Retrieval**

3 cr. Undergraduate/Graduate.

An overview of the concepts and theory related to information retrieval.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 571G Information Access and Retrieval**

3 cr. Undergraduate/Graduate.

An overview of the concepts and theory related to information retrieval.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 582 Introduction to Data Science**

3 cr. Undergraduate/Graduate.

Introduces basic concepts, background, theoretical, practical and technological aspects of data science.

**Prerequisites:** jr st; or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 582G Introduction to Data Science**

3 cr. Undergraduate/Graduate.

Introduces basic concepts, background, theoretical, practical and technological aspects of data science.

**Prerequisites:** jr st; or cons instr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 583 Survey of Information Security**

3 cr. Undergraduate/Graduate.

Introduces information security concepts, issues, and technological practices related to privacy, trust, and protection of information and digital assets.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 583G Survey of Information Security**

3 cr. Undergraduate/Graduate.

Introduces information security concepts, issues, and technological practices related to privacy, trust, and protection of information and digital assets.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 584 Survey of Web and Mobile Content Development**

3 cr. Undergraduate/Graduate.

Current best practices and theory for the development of content and applications across different platforms, systems, and devices emphasizing responsive design and frameworks.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 584G Survey of Web and Mobile Content Development**

3 cr. Undergraduate/Graduate.

Current best practices and theory for the development of content and applications across different platforms, systems, and devices emphasizing responsive design and frameworks.

**Prerequisites:** jr st or cons instr.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 603 History of Books and Printing**

3 cr. Undergraduate/Graduate.

The people, ideas, and events in the history of bookmaking from ancient times to the 1890's.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 603G History of Books and Printing**

3 cr. Undergraduate/Graduate.

The people, ideas, and events in the history of bookmaking from ancient times to the 1890's.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 611 Cataloging for Small Libraries**

1 cr. Undergraduate/Graduate.

Survey of the application of standards and rules to the creation and management of library catalogs for small libraries.

**Prerequisites:** graduate standing and INFOST 511(P), or enrollment in the School Library Certification program.**Course Rules:** Previously INFOST 711.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 611G Cataloging for Small Libraries**

1 cr. Undergraduate/Graduate.

Survey of the application of standards and rules to the creation and management of library catalogs for small libraries.

**Prerequisites:** graduate standing and INFOST 511(P), or enrollment in the School Library Certification program.**Course Rules:** Previously INFOST 711.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 619 Topics in Information Organization:**

1-3 cr. Undergraduate/Graduate.

Study of particular topics in Information Organization. Specific topics announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st & InfoSt(L&I Sci) 511(P); or cons instr.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 619G Topics in Information Organization:**

1-3 cr. Undergraduate/Graduate.

Study of particular topics in Information Organization. Specific topics announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st & InfoSt(L&I Sci) 511(P); or cons instr.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 622 Information Marketing**

3 cr. Undergraduate/Graduate.

Concepts and principles of marketing and strategic planning as they apply to libraries and information agencies; case studies in information brokering and repackaging.

**Prerequisites:** jr st.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 622G Information Marketing**

3 cr. Undergraduate/Graduate.

Concepts and principles of marketing and strategic planning as they apply to libraries and information agencies; case studies in information brokering and repackaging.

**Prerequisites:** jr st.**Last Taught:** Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 627 Music Librarianship**

3 cr. Undergraduate/Graduate.

Examination of materials used in obtaining music information and in establishing bibliographic control. Emphasis on reference, library instruction, collection management, and organization of music collections.

**Prerequisites:** jr st; InfoSt(L&I Sci) 511(531)(P), 571(P); or cons instr.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 627G Music Librarianship**

3 cr. Undergraduate/Graduate.

Examination of materials used in obtaining music information and in establishing bibliographic control. Emphasis on reference, library instruction, collection management, and organization of music collections.

**Prerequisites:** jr st; InfoSt(L&I Sci) 511(531)(P), 571(P); or cons instr.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 630 Strategies for Managing Group Learning and Assessment in Libraries**

3 cr. Undergraduate/Graduate.

Drawing on inclusive pedagogical theories, students will develop their skills in designing effective instructional experiences to manage group learning and assessment in a library setting.

**Prerequisites:** junior standing or higher, or consent of instructor.

**Course Rules:** Counts as a repeat of CURRINS 510 and ED PSY 325.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 630G Strategies for Managing Group Learning and Assessment in Libraries**

3 cr. Undergraduate/Graduate.

Drawing on inclusive pedagogical theories, students will develop their skills in designing effective instructional experiences to manage group learning and assessment in a library setting.

**Prerequisites:** junior standing or higher, or consent of instructor.

**Course Rules:** Counts as a repeat of CURRINS 510 and ED PSY 325.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 637 Library Services for Young Children**

1 cr. Undergraduate/Graduate.

Successful public and school library personnel who serve young children must have knowledge of how to utilize materials, programming, technologies, research, and evaluation tools to create the best services possible for this age group.

**Prerequisites:** junior standing, concurrent enrollment or previous completion of INFOST 645 or INFOST 646; or consent of instructor.

**Course Rules:** Counts as a repeat of INFOST 647.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 637G Library Services for Young Children**

1 cr. Undergraduate/Graduate.

Successful public and school library personnel who serve young children must have knowledge of how to utilize materials, programming, technologies, research, and evaluation tools to create the best services possible for this age group.

**Prerequisites:** junior standing, concurrent enrollment or previous completion of INFOST 645 or INFOST 646; or consent of instructor.

**Course Rules:** Counts as a repeat of INFOST 647.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 638 Library Services for School-Aged Children**

1 cr. Undergraduate/Graduate.

A foundation for developing, planning, and implementing library services to meet the needs and interests of elementary school-aged children.

**Prerequisites:** junior standing; previous completion or concurrent enrollment in INFOST 645 or INFOST 646; or consent of instructor.

**Course Rules:** Counts as a repeat of INFOST 647.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 638G Library Services for School-Aged Children**

1 cr. Undergraduate/Graduate.

A foundation for developing, planning, and implementing library services to meet the needs and interests of elementary school-aged children.

**Prerequisites:** junior standing; previous completion or concurrent enrollment in INFOST 645 or INFOST 646; or consent of instructor.

**Course Rules:** Counts as a repeat of INFOST 647.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 639 Library Services for Teens**

1 cr. Undergraduate/Graduate.

A foundation for developing, planning, and implementing library services to meet the needs and interests of middle and high school-aged young adults.

**Prerequisites:** junior standing; previous completion or concurrent enrollment in INFOST 645 or INFOST 646; or consent of instructor.

**Course Rules:** Counts as a repeat of INFOST 647.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 639G Library Services for Teens**

1 cr. Undergraduate/Graduate.

A foundation for developing, planning, and implementing library services to meet the needs and interests of middle and high school-aged young adults.

**Prerequisites:** junior standing; previous completion or concurrent enrollment in INFOST 645 or INFOST 646; or consent of instructor.

**Course Rules:** Counts as a repeat of INFOST 647.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 640 Information Literacy Instruction**

3 cr. Undergraduate/Graduate.

Concepts and principles involved in teaching information literacy; emphasis on organizing and developing courses and individual sessions.

**Prerequisites:** junior standing and INFOST 501(P) or consent of instructor.

**Course Rules:** Previously INFOST 740.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 640G Information Literacy Instruction**

3 cr. Undergraduate/Graduate.

Concepts and principles involved in teaching information literacy; emphasis on organizing and developing courses and individual sessions.

**Prerequisites:** junior standing and INFOST 501(P) or consent of instructor.

**Course Rules:** Previously INFOST 740.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 642 School Library Media Programs and Resources**

3 cr. Undergraduate/Graduate.

A study of the functions of the school library media center as an educational component including service, administration, collection development and utilization of materials.

**Prerequisites:** junior standing; INFOST 511(P); INFOST 520(P); INFOST 571(P); or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 642G School Library Media Programs and Resources**

3 cr. Undergraduate/Graduate.

A study of the functions of the school library media center as an educational component including service, administration, collection development and utilization of materials.

**Prerequisites:** junior standing; INFOST 511(P); INFOST 520(P); INFOST 571(P); or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 643 Pre-Student Teaching Experience in School Libraries**

1-3 cr. Undergraduate/Graduate.

A 50-150 hour (1cr. = 50hr.) school library pre-student teaching experience for students working towards their K-12 library media license who are not already certified teachers.

**Prerequisites:** jr st; School Library Media Certification program students on Pathway 2A & 2B only. INFOST 520(P); INFOST 645 or INFOST 646(P) and INFOST 642(C). or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 643G Pre-Student Teaching Experience in School Libraries**

1-3 cr. Undergraduate/Graduate.

A 50-150 hour (1cr. = 50hr.) school library pre-student teaching experience for students working towards their K-12 library media license who are not already certified teachers.

**Prerequisites:** jr st; School Library Media Certification program students on Pathway 2A & 2B only. INFOST 520(P); INFOST 645 or INFOST 646(P) and INFOST 642(C). or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 644 Clinical Experience in School Libraries**

1-12 cr. Undergraduate/Graduate.

Field experience of 1-4 U/G credits (50-200 hours of clinical practice) to 12 undergrad credits (a full semester student teaching) in elementary and secondary school library media services under faculty and field supervisor guidance.

**Prerequisites:** jr st; school library media certification program students only; INFOST 642(C); or cons instr.

**Course Rules:** Retakable to 12 credits max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 644G Clinical Experience in School Libraries**

1-12 cr. Undergraduate/Graduate.

Field experience of 1-4 U/G credits (50-200 hours of clinical practice) to 12 undergrad credits (a full semester student teaching) in elementary and secondary school library media services under faculty and field supervisor guidance.

**Prerequisites:** jr st; school library media certification program students only; INFOST 642(C); or cons instr.

**Course Rules:** Retakable to 12 credits max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 645 Library Materials for Children**

3 cr. Undergraduate/Graduate.

Introduction to print and media resources available in library collections; selection procedures, evaluation criteria, access and promotion of use of materials.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 645G Library Materials for Children**

3 cr. Undergraduate/Graduate.

Introduction to print and media resources available in library collections; selection procedures, evaluation criteria, access and promotion of use of materials.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 646 Library Materials for Young Adults**

3 cr. Undergraduate/Graduate.

Criteria for evaluation and selection of materials for young adults, emphasizing current resources, techniques of reading guidance and book talks.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 646G Library Materials for Young Adults**

3 cr. Undergraduate/Graduate.

Criteria for evaluation and selection of materials for young adults, emphasizing current resources, techniques of reading guidance and book talks.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 647 Library Services for Children and Young Adults**

3 cr. Undergraduate/Graduate.

A foundation for developing, planning, and programming library services to meet the needs and interests of children and teens.

**Prerequisites:** junior standing and INFOST 645(P), INFOST 646(P), or INFOST 646(C); or consent of instructor.

**Course Rules:** Previously INFOST 745. Counts as a repeat of INFOST 637, INFOST 638, and INFOST 639.

**Last Taught:** Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 647G Library Services for Children and Young Adults**

3 cr. Undergraduate/Graduate.

A foundation for developing, planning, and programming library services to meet the needs and interests of children and teens.

**Prerequisites:** junior standing and INFOST 645(P), INFOST 646(P), or INFOST 646(C); or consent of instructor.

**Course Rules:** Previously INFOST 745. Counts as a repeat of INFOST 637, INFOST 638, and INFOST 639.

**Last Taught:** Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 650 An Introduction to Modern Archives Administration**

3 cr. Undergraduate/Graduate.

An introduction to the archives profession, archives administration, main uses of primary sources in academic research, and archival issues regarding the Internet and other technologies.

**Prerequisites:** jr st; InfoSt 501(C).

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 650G An Introduction to Modern Archives Administration**

3 cr. Undergraduate/Graduate.

An introduction to the archives profession, archives administration, main uses of primary sources in academic research, and archival issues regarding the Internet and other technologies.

**Prerequisites:** jr st; InfoSt 501(C).

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 655 Information and Records Management:**

3 cr. Undergraduate/Graduate.

Principles and practices of information and records management: organizational information needs, retention, schedules, vital records protection, micrographics, records centers and records management policy.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 655G Information and Records Management:**

3 cr. Undergraduate/Graduate.

Principles and practices of information and records management: organizational information needs, retention, schedules, vital records protection, micrographics, records centers and records management policy.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 656 Electronic Documents and Records Management**

3 cr. Undergraduate/Graduate.

Advanced concepts, unique challenges, and on-going issues of electronic records management, including automated systems, information lifecycle management, access, legality, media stability, migration, and long-term preservation.

**Prerequisites:** jr st; InfoSt(L&I Sci) 655(P) or cons instr.

**Course Rules:** Counts as repeat of InfoSt(L&I Sci) 691 w/same topic.

**Last Taught:** Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 656G Electronic Documents and Records Management**

3 cr. Undergraduate/Graduate.

Advanced concepts, unique challenges, and on-going issues of electronic records management, including automated systems, information lifecycle management, access, legality, media stability, migration, and long-term preservation.

**Prerequisites:** jr st; InfoSt(L&I Sci) 655(P) or cons instr.

**Course Rules:** Counts as repeat of InfoSt(L&I Sci) 691 w/same topic.

**Last Taught:** Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 660 Information Policy**

3 cr. Undergraduate/Graduate.

Explore various aspects of information policy including privacy, intellectual property, and intellectual freedom; covers applicable methodologies.

**Prerequisites:** jr st.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 660G Information Policy**

3 cr. Undergraduate/Graduate.

Explore various aspects of information policy including privacy, intellectual property, and intellectual freedom; covers applicable methodologies.

**Prerequisites:** jr st.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 661 Information Ethics**

3 cr. Undergraduate/Graduate.

Ethical traditions, concepts, and principles for the information professions in the global information society; ethical implications of information technologies.

**Prerequisites:** jr st & InfoSt(L&I Sci) 110(P); 501(P) or cons instr.

**Course Rules:** Counts as a repeat of L&I Sci 691 with similar topic/title.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 661G Information Ethics**

3 cr. Undergraduate/Graduate.

Ethical traditions, concepts, and principles for the information professions in the global information society; ethical implications of information technologies.

**Prerequisites:** jr st & InfoSt(L&I Sci) 110(P); 501(P) or cons instr.

**Course Rules:** Counts as a repeat of L&I Sci 691 with similar topic/title.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 670 Instructional Technologies**

3 cr. Undergraduate/Graduate.

Traditional technologies, multimedia formats, and computer-based technologies for instructional purposes.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 670G Instructional Technologies**

3 cr. Undergraduate/Graduate.

Traditional technologies, multimedia formats, and computer-based technologies for instructional purposes.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 671 Applied Web 3.0: Artificial Intelligence and Blockchain**

3 cr. Undergraduate/Graduate.

Introduction and broad survey of Web 3.0 including Artificial Intelligence AI and Blockchain. Topics: AI programming, blockchain technology and development, Artificial Intelligence, and machine learning.

**Prerequisites:** junior standing and one of the following: INFOST 350(P) or COMPSCI 351(P); or graduate standing and COMPSCI 702(P) or COMPSCI 751(P); or consent of instructor.

**Course Rules:** Counts as a repeat of INFOST 691 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 671G Applied Web 3.0: Artificial Intelligence and Blockchain**

3 cr. Undergraduate/Graduate.

Introduction and broad survey of Web 3.0 including Artificial Intelligence AI and Blockchain. Topics: AI programming, blockchain technology and development, Artificial Intelligence, and machine learning.

**Prerequisites:** junior standing and one of the following: INFOST 350(P) or COMPSCI 351(P); or graduate standing and COMPSCI 702(P) or COMPSCI 751(P); or consent of instructor.

**Course Rules:** Counts as a repeat of INFOST 691 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 674 The Search Engine Society**

3 cr. Undergraduate/Graduate.

Critical examination of the role of search engines in contemporary society, including impact on information organization and retrieval, information institutions, information policy, law, and ethics.

**Prerequisites:** jr st; InfoSt(L&I Sci) 501(P) or cons instr.

**Course Rules:** Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 674G The Search Engine Society**

3 cr. Undergraduate/Graduate.

Critical examination of the role of search engines in contemporary society, including impact on information organization and retrieval, information institutions, information policy, law, and ethics.

**Prerequisites:** jr st; InfoSt(L&I Sci) 501(P) or cons instr.

**Course Rules:** Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 675 Information Technology and Organizations**

3 cr. Undergraduate/Graduate.

Topical seminar, exploring the relationship between information technology (IT) culture, organizations and the organization of work, cultures, subcultures; sociology of IT work; enterprise systems; knowledge management; data mining and IT careers.

**Prerequisites:** jr st.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 675G Information Technology and Organizations**

3 cr. Undergraduate/Graduate.

Topical seminar, exploring the relationship between information technology (IT) culture, organizations and the organization of work, cultures, subcultures; sociology of IT work; enterprise systems; knowledge management; data mining and IT careers.

**Prerequisites:** jr st.

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 676 Content Management Systems**

3 cr. Undergraduate/Graduate.

Introduction to creating highly functional websites with various tools without using web development languages and coding scripts, but with open source web-based content management systems.

**Prerequisites:** junior standing; basic HTML knowledge preferred.

**Course Rules:** Counts as a repeat of INFOST 691 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 676G Content Management Systems**

3 cr. Undergraduate/Graduate.

Introduction to creating highly functional websites with various tools without using web development languages and coding scripts, but with open source web-based content management systems.

**Prerequisites:** junior standing; basic HTML knowledge preferred.

**Course Rules:** Counts as a repeat of INFOST 691 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 676X Content Management Systems**

3 cr. Undergraduate/Graduate.

Introduction to creating highly functional websites with various tools without using web development languages and coding scripts, but with open source web-based content management systems.

**Prerequisites:** junior standing; basic HTML knowledge preferred.

**Course Rules:** Counts as a repeat of INFOST 691 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 682 Digital Libraries**

3 cr. Undergraduate/Graduate.

Concepts and technologies for development of digital libraries. Topics include tools for multimedia digitization, organization of digital resources, and evaluation of digital libraries and gateways.

**Prerequisites:** jr st & InfoSt(L&I Sci) 110(P); 501(P); or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 682G Digital Libraries**

3 cr. Undergraduate/Graduate.

Concepts and technologies for development of digital libraries. Topics include tools for multimedia digitization, organization of digital resources, and evaluation of digital libraries and gateways.

**Prerequisites:** jr st & InfoSt(L&I Sci) 110(P); 501(P); or cons instr.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 685 Electronic Publishing and Web Design**

3 cr. Undergraduate/Graduate.

An introduction to principles of visual communications related to electronic media with emphasis on website development, electronic documents, and production and dissemination of electronic information.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 685G Electronic Publishing and Web Design**

3 cr. Undergraduate/Graduate.

An introduction to principles of visual communications related to electronic media with emphasis on website development, electronic documents, and production and dissemination of electronic information.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of InfoSt(L&I Sci) 691 w/similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 687 Data Analysis for Data Science**

3 cr. Undergraduate/Graduate.

Development and use of data science analysis skills in statistics, probability, forecasting, prediction, optimization, clustering and visualization.

**Prerequisites:** junior standing and completion of one of the following: INFOST 370(P), INFOST 582(P), or INFOST 799(P).

**Course Rules:** Counts as a repeat of INFOST 691 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 687G Data Analysis for Data Science**

3 cr. Undergraduate/Graduate.

Development and use of data science analysis skills in statistics, probability, forecasting, prediction, optimization, clustering and visualization.

**Prerequisites:** junior standing and completion of one of the following: INFOST 370(P), INFOST 582(P), or INFOST 799(P).

**Course Rules:** Counts as a repeat of INFOST 691 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 691 Special Topics in Information Science:**

1-3 cr. Undergraduate/Graduate.

An exploration of current topics in information science.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** Course prerequisites vary by topic; please consult the syllabus or contact the instructor for topic-specific prerequisites. May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 691G Special Topics in Information Science:**

1-3 cr. Undergraduate/Graduate.

An exploration of current topics in information science.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** Course prerequisites vary by topic; please consult the syllabus or contact the instructor for topic-specific prerequisites. May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 691X Special Topics in Information Science:**

1-3 cr. Undergraduate/Graduate.

An exploration of current topics in information science.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** Course prerequisites vary by topic; please consult the syllabus or contact the instructor for topic-specific prerequisites. May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 692 Special Topics in Information Science and Technology**

1-3 cr. Undergraduate/Graduate.

An exploration of current topics in information science and technology. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st or cons instr.

**Course Rules:** May be retaken w/ chg in topic to max of 9 cr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 692G Special Topics in Information Science and Technology**

1-3 cr. Undergraduate/Graduate.

An exploration of current topics in information science and technology. Specific topics and any additional prerequisites will be announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st or cons instr.

**Course Rules:** May be retaken w/ chg in topic to max of 9 cr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 695 Ethical Hacking I**

3 cr. Undergraduate/Graduate.

Fundamental concepts in computer security testing, the evolution of ethical hacking and the latest tools used in cyber security to test different computer systems.

**Prerequisites:** INFOST 325(P) or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 695G Ethical Hacking I**

3 cr. Undergraduate/Graduate.

Fundamental concepts in computer security testing, the evolution of ethical hacking and the latest tools used in cyber security to test different computer systems.

**Prerequisites:** INFOST 325(P) or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 696 Ethical Hacking II**

3 cr. Undergraduate/Graduate.

Advanced concepts in computer security testing, the latest tools used in cyber security to test different computer systems and the creation of personal testing tools.

**Prerequisites:** INFOST 695(P) or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 696G Ethical Hacking II**

3 cr. Undergraduate/Graduate.

Advanced concepts in computer security testing, the latest tools used in cyber security to test different computer systems and the creation of personal testing tools.

**Prerequisites:** INFOST 695(P) or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 697 Cisco Routing & Switching I**

3 cr. Undergraduate/Graduate.

Networking and security, including IP Address translation (masking), subnetting, access lists, port security, VPNs, routing protocols and passwords.

**Prerequisites:** jr st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 697G Cisco Routing & Switching I**

3 cr. Undergraduate/Graduate.

Networking and security, including IP Address translation (masking), subnetting, access lists, port security, VPNs, routing protocols and passwords.

**Prerequisites:** jr st.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 712 Resource Description for Library Catalogs**

3 cr. Graduate.

Application of standards and rules to the construction of tools for information retrieval, primarily digital resources and catalogs in library and information environments.

**Prerequisites:** grad st; InforSt 511 (P) or cons instr**Last Taught:** Fall 2022, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 714 Metadata**

3 cr. Graduate.

Principles and application of metadata for networked information resource organization, representation, retrieval, and interoperability using a variety of schemes; focus on cultural heritage digital repositories.

**Prerequisites:** grad st; MLIS prereqs: InfoSt 511(P); InfoSt 571(R) MSIST prereqs: InfoSt 582(P).**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 717 Information Architecture**

3 cr. Graduate.

Introduction to information architecture and user experience design, focusing on designing user-centered organization, labeling, navigation, search, metadata, and knowledge organization systems for websites.

**Prerequisites:** grad st; InfoSt(L&I Sci) 511(531)(P).**Last Taught:** Fall 2023, Spring 2021, Spring 2020, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 719 Advanced Topics in Information Organization**

3 cr. Graduate.

Advanced study of a particular topic in Information Organization.

**Prerequisites:** grad st; InfoSt(L&I Sci) 511(P) or cons instr.**Course Rules:** May be repeated w/ chg in topic to 9 cr. max.**Last Taught:** Spring 2015, Fall 2014, Summer 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 722 Entrepreneurship and Innovation for LIS Professionals**

3 cr. Graduate.

Introduces entrepreneurial concepts and practices in the library and information science professions, examines alternative career options, and provides an opportunity to apply entrepreneurial methods and processes.

**Prerequisites:** InfoSt 501(P) or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 734 Library Services and Resources for Adults**

3 cr. Graduate.

Introduction to the wide range of services and materials with which the library meets the needs of adult patrons.

**Prerequisites:** grad st; InfoSt(L&I Sci) 520(C), 571(P); or cons instr**Last Taught:** Fall 2023, Fall 2022, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 735 The Academic Library**

3 cr. Graduate.

Administration of the college and university library, including a study of budgets, personnel, building and collections requirements, and cooperative programs.

**Prerequisites:** grad st; InfoSt(L&I Sci) 501(C); 511(531)(P); 520(C); 524(540)(R); & 571(C); or cons instr**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 736 The Public Library**

3 cr. Graduate.

Overview of issues and functions of American public libraries; including trends in governance, program planning and evaluation, community analysis, alternative funding, library use and users.

**Prerequisites:** graduate standing and INFOST 501(C), or consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 738 Legal Information Sources and Services**

3 cr. Graduate.

A study of legal sources of federal and Wisconsin law including the use of law finders, statutes, cases and digests.

**Prerequisites:** grad st; InfoSt(L&I Sci) 571(P)**Last Taught:** Fall 2007, Spring 2006, Spring 2004, Spring 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 739 Digital Information Services**

3 cr. Graduate.

Examination of major issues involved in digital information services.

Comparison of differences and similarities between digital and face-to-face services, evaluation of DIS and current trends.

**Prerequisites:** graduate standing, INFOST 521(P), INFOST 571(P), and INFOST 682(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 741 Multicultural Children's Literature**

3 cr. Graduate.

Exploration of children's literature representing racialized groups in the United States; discussion will focus on evaluating and selecting material.

**Prerequisites:** grad st; InfoSt(L&I Sci) 645(P) or equivalent; or cons instr.**Course Rules:** Counts as repeat of 691 w/ same topic.**Last Taught:** Spring 2019, Fall 2015, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 750 Arrangement and Description in Archives**

3 cr. Graduate.

Development of the intellectual framework and critical evaluation skills necessary for the arrangement and description of archival collections.

**Prerequisites:** grad st; InfoSt(L&I Sci) 650(681)(C) or cons instr.**Last Taught:** Fall 2023, Fall 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**INFOST 752 Archival Outreach: Programs and Services**

3 cr. Graduate.

An introduction to archival outreach and reference services for sustaining an archival program committed to public service.

**Prerequisites:** grad st; InfoSt 650(C) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 753 Preserving Information Media**

3 cr. Graduate.

Examines all aspects of archival preservation of multiple media formats. Includes discussions of preservation practice, policy and programming in an archives.

**Prerequisites:** grad st; InfoSt(L&I Sci) 650(P) or cons instr.

**Course Rules:** InfoSt(L&I Sci) 791 with similar topic counts as repeat of 753.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 756 Community Archives**

3 cr. Graduate.

Exploration of community archives by illustrating the reasons for their creation, challenges that they present to traditional archives, and obstacles to their success.

**Prerequisites:** graduate standing and INFOST 650(C); or consent of instructor.

**Course Rules:** Counts as a repeat of INFOST 791 with the same topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 758 Technology Issues in Archives**

3 cr. Graduate.

This course addresses technology issues facing archivists today and its theoretical and practical implications in collection management, arrangement and description, reference, digitization, and electronic records.

**Prerequisites:** grad st; INFOST 650; or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 759 Fieldwork in Archives and Manuscripts**

1-3 cr. Graduate.

Field experience of 50 to 150 hours in an archives or manuscript repository under faculty and field supervisor guidance. Student must also complete a supervised field project.

**Prerequisites:** graduate standing and completion of one of the following: INFOST 524(P), INFOST 571(P), INFOST 650(P), or HIST 775(P); or consent of instructor.

**Course Rules:** May be repeated for total of 6 cr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 763 Topics in Information Policy**

1-3 cr. Graduate.

An array of coursework specifically related to the social, ethical, economic, legal, and philosophical aspects of information.

**Prerequisites:** grad st

**Course Rules:** May be repeated w/chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 771 Data Curation**

3 cr. Graduate.

Covers concepts and issues relevant to the curation, storage, management, and access of data including data management plans, open data initiatives, and repositories.

**Prerequisites:** graduate standing and INFOST 511(P) or INFOST 582(P); or consent of instructor.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 774 Online Information Retrieval**

3 cr. Graduate.

Study of bibliographic, non-bibliographic, full-text databases, including document delivery alternatives, evaluation and testing.

**Prerequisites:** grad st; InfoSt 501(P); 571(P); or cons instr.

**Last Taught:** Summer 2023, Summer 2021, Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 781 Applied Information and Internet Technologies**

3 cr. Graduate.

Introduces information and network concepts and technologies in information science professions, such as libraries and provides opportunities to apply information theories in problem solving processes.

**Prerequisites:** graduate standing.

**Course Rules:** Previously INFOST 632.

**Last Taught:** Summer 2011, Fall 2010, Summer 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 784 Information Security Management**

3 cr. Graduate.

Investigation of key aspects of information security management such as policy, risk analysis and management, education and awareness training, legal compliance, ethical and legal conduct.

**Prerequisites:** grad st; InfoSt 583 (P).

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 785 Database Management Systems for Information Professionals**

3 cr. Graduate.

Study of microcomputer data base management software (DBMS) and information retrieval (IR) systems and their potential applications for information services.

**Prerequisites:** grad st

**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 790 Project Design, Implementation, and Evaluation**

3 cr. Graduate.

Culminating experience for MSIST degree program comprising the design, implementation, and evaluation of a capstone project related to the MSIST degree tracks.

**Prerequisites:** graduate standing, MSIST degree candidate, INFOST 582(P), INFOST 583(P), COMPST 701(P), and COMPST 703(P); or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 791 Topics in Library and Information Science:**

1-3 cr. Graduate.

Graduate level treatment of current topics in library and information science. Specific topic and any additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** grad st; InfoSt 501(P) or cons instr**Course Rules:** May be repeated w/chg in topic to 9 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 799 Research Methods in Information Studies**

3 cr. Graduate.

Knowledge of research concepts, methods, and evaluation in library and information science, and applications of research in the information professions.

**Prerequisites:** grad st; InfoSt(L&I Sci) 501(P); 511(531)(P); 571(P), or cons instr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 850 Seminar in Modern Archives Administration**

3 cr. Graduate.

In-depth exploration of several aspects of archival work through extensive readings, discussions, practical exercises and a major seminar paper.

**Prerequisites:** grad st; InfoSt(L&I Sci) 650(681)(P) or cons instr.**Course Rules:** Counts as repeat of Hist 777.**Last Taught:** Spring 2011, Fall 2009, Spring 2008, Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 855 Advanced Appraisal**

3 cr. Graduate.

An overview of the history of archival appraisal and manuscript collecting, surveys recent appraisal methodologies and theories, providing practical experience in the application of appraisal theory and assessing the value of organizational records.

**Prerequisites:** grad st; INFOST 650; or cons instr**Last Taught:** Spring 2023, Fall 2020, Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 861 Seminar in Intellectual Freedom**

3 cr. Graduate.

Principles and practices of intellectual freedom, as related to the information professions. Emphasizes, but is not limited to, current issues in the U.S.

**Prerequisites:** graduate standing.**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 862 Legal Issues for Library and Information Managers**

3 cr. Graduate.

Legal issues arising in various library settings, including access rights, privacy and confidentiality, copyright, intellectual freedom and information liability and malpractice.

**Prerequisites:** grad st; InfoSt(L&I Sci) 501(P) or cons instr**Last Taught:** Spring 2023, Summer 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 863 Feminism, Librarianship, and Information**

3 cr. Graduate.

The nature of librarianship as a profession, issues related to information and technology, and practices of information services from gendered perspectives using applicable feminist theories.

**Prerequisites:** grad st; InfoSt 501(P); InfoSt 591(P)**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 864 Critical Approaches to Public Librarianship**

3 cr. Graduate.

Explores advanced concepts of the public library as a political institution in the public sphere. Includes investigations of legislative foundations, funding, governance and social engagement.

**Prerequisites:** grad st; InfoSt 501(P), 736(P) or cons instr.**Course Rules:** Counts as repeat of InfoSt 891 Philosophy, Policy, Politics.**Last Taught:** Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 888 Candidate for Degree:**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2019, Spring 2019, Fall 2017, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 891 Advanced Topics in Library and Information Science:**

1-3 cr. Graduate.

Seminar in advanced current topics in library and information science. Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** graduate standing; consent of instructor.**Course Rules:** May be repeated with change in topic to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 897 Information Science and Technology Independent Study**

1-3 cr. Graduate.

Advanced study under instructor guidance on a special topic in information science and technology. Regular instructor consultation and written report(s) required.

**Prerequisites:** graduate standing; MSIST degree candidate or consent of instructor.**Course Rules:** Repeatable to 6 cr max. A max of 6 cr between INFOST 897 and INFOST 999 may count toward the MSIST.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**INFOST 898 Master's Thesis**

1-3 cr. Graduate.

Research and writing in consultation with SOIS thesis advisor for M.L.I.S. candidates pursuing the Thesis Option. May be repeated until completion and defense of the thesis.

**Prerequisites:** grad st; InfoSt(L&I Sci) 890(P) or equiv; cons of thesis advisor.**Last Taught:** Fall 2017, Spring 2017, Summer 2016, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 899 MLIS Independent Study**

3 cr. Graduate.

Advanced study under faculty guidance, on a special aspect of library and information services. Regular faculty consultation and written report(s) required.

**Prerequisites:** graduate standing, INFOST 501(P), INFOST 511(P), INFOST 571(P), or consent of instructor.

**Course Rules:** A max of 6 cr between INFOST 899 and INFOST 999 may count toward the MLIS.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 901 Current Issues in Information Studies**

3 cr. Graduate.

Current topical issues in information studies, socializes doctoral students to research culture, and analyzes current research topics in the field.

**Prerequisites:** grad st (doctoral st); or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 902 Theoretical Foundations in Information Studies**

3 cr. Graduate.

This doctoral seminar introduces students to a range of fundamental theoretical foundations and models relevant to information studies.

**Prerequisites:** grad st (doctoral st) or cons instr.

**Last Taught:** Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 903 Qualitative Research Methods**

3 cr. Graduate.

Qualitative research design, data collection, data analysis tools and techniques as well as theory building in the context of information study research.

**Prerequisites:** grad st (doctoral st) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 904 Quantitative Research Methods**

3 cr. Graduate.

Quantitative research designs, data process and analysis, inferential statistical methods and theories, applications in information studies, and evaluation of quantitative research studies.

**Prerequisites:** grad st (doctoral st) or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 905 Mixed Methods Research for Information Studies**

3 cr. Graduate.

Presents techniques for designing and executing mixed methods research in information studies as well as arguments for and against the use of mixed methods for theory building.

**Prerequisites:** Counts as repeat of INFOST 891 w/same topic. Prereqs:

For MLIS: InfoSt 799(591)(P) or equiv or cons instr. For PhD: InfoSt 903(P); InfoSt 904(P); or cons of instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 910 Doctoral Seminar in the Organization of Information**

3 cr. Graduate.

In-depth and critical study of the historical, philosophical, theoretical, and methodological foundation of the organization of information.

**Prerequisites:** grad st (doctoral st); or cons instr.

**Last Taught:** Fall 2023, Spring 2022, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 960 Doctoral Seminar in Information Policy**

3 cr. Graduate.

Examination of the conceptual, institutional, and practical foundations of information policy, law, and ethics.

**Prerequisites:** grad st (doctoral st); or cons instr.

**Last Taught:** Fall 2022, Fall 2020, Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 970 Doctoral Seminar in Information Retrieval**

3 cr. Graduate.

Advanced research concepts, methods, and applications for information retrieval (IR) and its evaluation, and current topics of research interest to the IR community.

**Prerequisites:** grad st (doctoral st); or cons instr.

**Last Taught:** Spring 2023, Fall 2021, Spring 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 990 Fieldwork in Library and Information Science Services**

1-3 cr. Graduate.

Fieldwork experience of 50 to 150 hours under faculty and field supervisor guidance. Student must also complete a supervised field project.

**Prerequisites:** grad st; InfoSt(L&I Sci) 501(P), 511(531)(P), 571(P); cons instr.

**Course Rules:** May be repeated to max of 6 cr with cons adviser.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, UWinterIM 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 991 Fieldwork in Information Science and Technology**

1-3 cr. Graduate.

Practical experience in an information science and technology field. Regular faculty consultation and written report(s) required.

**Prerequisites:** graduate standing, INFOST 582(P), INFOST 583(P), COMPST 701(P), COMPST 703(P), or consent of instructor.

**Course Rules:** May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 997 Preliminary Examinations**

1-6 cr. Graduate.

Available for doctoral students taking preliminary exams. May be repeated twice to a max of 6 cr with cons of adviser.

**Prerequisites:** graduate standing.

**Course Rules:** Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 998 Doctoral Dissertation**

1-3 cr. Graduate.

Doctoral dissertation research and advisement for information studies PhD candidates and PhD candidates with an emphasis in library and information science.

**Prerequisites:** doctoral candidacy & cons doctoral advisor.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INFOST 999 Independent Research**

1-3 cr. Graduate.

Primary research under faculty guidance, on a special aspect of library and information services. Regular faculty consultation and written research report(s) required.

**Prerequisites:** graduate standing; INFOST 501(P), INFOST 511(P), INFOST 571(P), and INFOST 799(P), or consent of instructor.

**Course Rules:** Carries 3 cr limit for MLIS; may be repeated to 6 cr max for advanced certificate students.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## International Studies (INTLST)

**INTLST 193 First-Year Seminar.**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 250 Introduction to Study Abroad**

2 cr. Undergraduate.

Discussion of study abroad programs by addressing objectives, cross-cultural communication; specific programs and pre-departure information.

**Prerequisites:** none.

**Course Rules:** No degree cr for students with cr in IntlSt 350 'Studying in the World's Regions'(ER). Cr/no cr only; audit not permitted.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 260 Introduction to International Careers**

2 cr. Undergraduate.

Introduction to a wide variety of career options in area of international studies, partly through lectures with academics and professionals from relevant fields.

**Prerequisites:** none.

**Course Rules:** No degree cr for students with cr in IntlSt 350 'Careers in the World's Regions'(ER). Cr/no cr only; audit not permitted.

**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in a UWM sponsored program before course level, content, and credits are determined and/or in a specially prepared program course. Section title(s) and credits announced whenever course is offered.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 450 Internship in International Studies**

2-6 cr. Undergraduate.

Internship offering on the job experience to selected majors in international studies. Student enrolls for a specific number of credits.

**Prerequisites:** jr or sr st; gpa of 3.0; writ cons prog coord.

**Course Rules:** Retakable to 6 cr max. Cr/no cr only; audit not permitted.

**Last Taught:** Spring 2023, Summer 2022, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Fall 2019, Summer 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 498 Applied Foreign Language**

1 cr. Undergraduate.

Independent reading in a foreign language as companion to courses in international studies. To be arranged with International Studies coordinator.

**Prerequisites:** 2 yrs college-level work in a foreign language or equiv; cons IntlSt coord.

**Course Rules:** Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 550 Senior Seminar in International Studies:**

3 cr. Undergraduate/Graduate.

Interdisciplinary seminar with emphasis on functional/regional problems in world affairs.

**Prerequisites:** declared International Studies major or minor, or consent of instructor or program coordinator.

**Course Rules:** Retakable with change in topic to 9 cr max.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 550G Senior Seminar in International Studies:**

3 cr. Undergraduate/Graduate.

Interdisciplinary seminar with emphasis on functional/regional problems in world affairs.

**Prerequisites:** declared International Studies major or minor, or consent of instructor or program coordinator.

**Course Rules:** Retakable with change in topic to 9 cr max.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**INTLST 699 Independent Study**

1-6 cr. Undergraduate.

Advanced independent work under the supervision of an IntlSt faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult prog coord or advisor.

**Prerequisites:** jr st; 2.5 GPA; writ cons instr, prog coord, & asst dean for SAS.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Summer 2009, Summer 2008, Spring 2007, Summer 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Italian (ITALIAN)

**ITALIAN 20 Great Italians:**

1 cr. Undergraduate.

An introduction to the life and works of a major figure in Italian cultural history.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 3 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 103 First-Semester Italian**

4 cr. Undergraduate.

Introductory course for students who have not studied Italian previously. Oral practice, grammar, reading.

**Prerequisites:** none.

**Course Rules:** Students are required to spend an additional hr each week in the language lab in oral drill & comprehension. Counts as repeat of Italian 113.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 104 Second-Semester Italian**

4 cr. Undergraduate.

Continuation of ITALIAN 103. Expands oral, written, and reading skills.

**Prerequisites:** grade of C- or better in ITALIAN 103(P) or ITALIAN 113(P), or consent of instructor.

**Course Rules:** Counts as repeat of ITALIAN 114. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 110 Italian for Travelers**

2 cr. Undergraduate.

Basic conversational Italian for travelers. For students with no knowledge of Italian as well as for those with a basic foundation in the language.

**Prerequisites:** none.

**Last Taught:** Summer 2007, Summer 2006, Summer 2005, Summer 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 112 Italian Language and Culture for Professional Communication**

4 cr. Undergraduate.

Basic conversational Italian and discussions in English of contemporary culture; for those doing business in Italy.

**Prerequisites:** none.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 143 Multi-Racial Italy Today**

3 cr. Undergraduate.

Investigation on the various representations of Jewish people, Chinese people, and African people as essential and constitutive components of Italian national identity.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of ITALIAN 145 with the same topic.

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 145 Views of Italy:**

3 cr. Undergraduate.

Variable content, with specific topics focusing on the interrelation of literary works and sociocultural values and traditions of Italy.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 146 Italians and the Mafia**

3 cr. Undergraduate.

Examination of the Italian mafias and antimafia organizations through historical writings, fiction, documentaries, and digital media.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of ITALIAN 145 with the same topic.

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 155 Masterpieces of Italian Literature in Translation**

3 cr. Undergraduate.

Major works of different periods and genres. Introduction to the critical reading of literary texts.

**Prerequisites:** none.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2008, Fall 1999, Fall 1997, Spring 1997.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 197 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance in Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2018, Spring 2018, Spring 2013, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 203 Third-Semester Italian**

3 cr. Undergraduate.

Development of reading, writing, and oral skills; review and further study of grammar.

**Prerequisites:** grade of C- or better in ITALIAN 104(P) or ITALIAN 114(P), or consent of instructor.

**Course Rules:** Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 204 Fourth-Semester Italian**

3 cr. Undergraduate.

Continuation of ITALIAN 203.

**Prerequisites:** grade of C- or better in ITALIAN 203(P) or consent of instructor.

**Course Rules:** Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 215 Italian Conversation**

3 cr. Undergraduate.

Development of ability to speak and write Italian, with emphasis on everyday speech.

**Prerequisites:** Italian 104(P) or 114(P) or placement.

**Course Rules:** Should be taken conc with Italian 203 or 204. May be retaken to 6 cr max.

**Last Taught:** Spring 2022, Fall 2005, Spring 2005, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 242 Topics in Italian American Studies:**

3 cr. Undergraduate.

Interdisciplinary study of aspects of Italian American ethnicity, history, and culture.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 243 Topics in Italian American Film:**

3 cr. Undergraduate.

Study of selected topics in Italian American film.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 245 Italy and Its Global Fictions:**

3 cr. Undergraduate.

Themes or figures as they appear throughout Italian literature, film and media, and global representations.

**Prerequisites:** none.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2016, Spring 2015, Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 256 Introduction to Italian Food Studies: A Cultural History**

3 cr. Undergraduate.

Interdisciplinary study of Italian cooking and cuisine in fiction and non-fiction works from the Etruscan and Roman times to the present.

**Prerequisites:** none.

**Course Rules:** Taught in English.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 258 Contemporary Italian Society and Culture**

3 cr. Undergraduate.

Interdisciplinary study, using audio-visual materials, of social, economic, and cultural features shaping Italy today.

**Prerequisites:** soph st.

**Course Rules:** In English; reading & papers in Italian required of majors (option A).

**General Education Requirements:** HU

**Last Taught:** Fall 2014, Fall 2012, Spring 2011, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 265 Italian Women's Studies:**

3 cr. Undergraduate.

Past and present conceptions of women and womanhood in Italian literature, popular tradition, opera, film autobiography, and contemporary feminist writings.

**Prerequisites:** none.

**Course Rules:** Retakable w/chg in topic.

**General Education Requirements:** HU

**Last Taught:** Spring 2019, Fall 1991, Spring 1989, Spring 1987.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 277 Italian Discussion Section:**

1-2 cr. Undergraduate.

Discussion in Italian, designed to broaden perspectives, improve language skills.

**Prerequisites:** Italian 204(P) or cons instr.

**Course Rules:** Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 289 Internship in Italian, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Italian in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** Each cr earned for academic work based on 40 hrs internship. May be retaken to 6 cr max. Prereq Italian 104(P) or 114(P); 2.25 gpa; cons supervising faculty member.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 296 UROP Apprenticeship**

1-9 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One cr for 45 hrs of research.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** May be retaken to 9 cr max in any combination of UROP Apprenticeship courses.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 310 Italian Immersion**

1-2 cr. Undergraduate.

Concentrated, structured practice of spoken Italian on varied contemporary topics; small-group setting with native speakers, simulating immersion experience. Improve communication skills, build vocabulary. May be offered in short-term sessions.

**Prerequisites:** Italian 203(P) or cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 311 Advanced Conversation and Composition: Contemporary Italian Usage**

3 cr. Undergraduate.

Development of advanced speaking, writing, and reading skills. Films and readings emphasize twentieth century Italy. Focus varies each semester.

**Prerequisites:** Italian 204(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 312 Contemporary Italian Language and Culture**

3 cr. Undergraduate.

Contemporary culture through Italian readings, film, world wide web, and refinement of advanced conversation and composition skills. Themes vary each semester.

**Prerequisites:** Italian 204(P) or cons instr. Generates L&S credit for demonstrated equivalent preparation (14 cr).

**Course Rules:** May be retaken to 6 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 313 Translation: Italian-English, English-Italian**

3 cr. Undergraduate.

Contrastive study of literary and non-literary Italian and English prose styles and of the technical problems of translation.

**Prerequisites:** Italian 203(P) or cons instr.

**Last Taught:** Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 321 Introduction to Italian Literature**

3 cr. Undergraduate.

Varied approaches to reading works by major Italian authors.

Development of critical skills in speaking and writing. Texts vary each semester.

**Prerequisites:** Italian 204(P) or cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 322 Introduction to Italian Literature and Film**

3 cr. Undergraduate.

Interdisciplinary approaches to major works of literature and film.

Development of critical reading, speaking, and writing skills. Texts vary each semester.

**Prerequisites:** Italian 204(P) or cons instr.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 329 Italian Cinema**

3 cr. Undergraduate.

Historical and stylistic study of film as an expression of the contemporary culture of Italy.

**Prerequisites:** none.

**Course Rules:** Previously ITALIAN 229.

**Last Taught:** Fall 2009, Fall 2005, Fall 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 333 Dante's Divine Comedy in Translation**

3 cr. Undergraduate/Graduate.

Close reading of the Inferno, Purgatorio, and Paradiso, including their connections to the visual arts.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 333G Dante's Divine Comedy in Translation**

3 cr. Undergraduate/Graduate.

Close reading of the Inferno, Purgatorio, and Paradiso, including their connections to the visual arts.

**Prerequisites:** jr st.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 335 Political Theory, Historiography, and Scientific Thought in Italy**

3 cr. Undergraduate.

Nature of the universe and human history in works of Dante, Machiavelli, Galileo, Bruno, Campanella, Vico, Croce, and Gramsci. Reading and papers in Italian required of majors (option A).

**Prerequisites:** jr st; cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 342 Italian Immigration: A Sociocultural History**

3 cr. Undergraduate.

Interdisciplinary examination of the social and cultural history of Italian migrations with specific focus on community formation in the United States, aspects of ethnic identity, and heritage.

**Prerequisites:** junior standing.**Last Taught:** Spring 2023, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 345 Italians and the Holocaust in Italy**

3 cr. Undergraduate.

The Holocaust in Italy examined through testimonies, documentary and fiction film, digital media, and public arts of memory.

**Prerequisites:** none.**Course Rules:** Counts as a repeat of ITALIAN 357 with the same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 357 Topics in Italian Culture in Translation:**

3 cr. Undergraduate.

Examination of a specific topic or genre in works from one or more periods.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 383 Honors Seminar:**

3 cr. Undergraduate.

A period, figure, theme, or genre. Specific aims and method of course vary according to the topic.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2006, Fall 2005, Fall 2004, Spring 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 397 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2023, Summer 2022, Summer 2019, Summer 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 413 Introduction to Italian to English Translation**

3 cr. Undergraduate/Graduate.

Comprehensive overview of Italian to English translation; interactive learning of vocabulary and language usage through application of different translation topics; literary, technical, personal documents translation.

**Prerequisites:** two of Italian 311(P), 312(P), 321(P), or 322(P) or equiv; or admis to grad prog in Translation; or cons instr.**Last Taught:** Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 413G Introduction to Italian to English Translation**

3 cr. Undergraduate/Graduate.

Comprehensive overview of Italian to English translation; interactive learning of vocabulary and language usage through application of different translation topics; literary, technical, personal documents translation.

**Prerequisites:** two of Italian 311(P), 312(P), 321(P), or 322(P) or equiv; or admis to grad prog in Translation; or cons instr.**Last Taught:** Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 456 Topics in Italian Food Studies:**

3 cr. Undergraduate/Graduate.

Interdisciplinary study of a topic or period related to Italian food culture, with attention to historical and social contexts.

**Prerequisites:** jr st or cons instr.**Course Rules:** Taught in English. May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2022, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 456G Topics in Italian Food Studies:**

3 cr. Undergraduate/Graduate.

Interdisciplinary study of a topic or period related to Italian food culture, with attention to historical and social contexts.

**Prerequisites:** jr st or cons instr.**Course Rules:** Taught in English. May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2022, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 457 Topics in Italian Literature and Culture in Translation:**

3 cr. Undergraduate/Graduate.

Critical reading, lectures, and discussion of major works on a topic, genre, or period; attention to cultural and historical context.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 457G Topics in Italian Literature and Culture in Translation:**

3 cr. Undergraduate/Graduate.

Critical reading, lectures, and discussion of major works on a topic, genre, or period; attention to cultural and historical context.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**ITALIAN 460 The Italian Novel from Manzoni to the Present**

3 cr. Undergraduate/Graduate.

Major trends and critical problems.

**Prerequisites:** jr st, Italian 321(P) & 322(P), & cons instr; or grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 460G The Italian Novel from Manzoni to the Present**

3 cr. Undergraduate/Graduate.

Major trends and critical problems.

**Prerequisites:** jr st, Italian 321(P) & 322(P), & cons instr; or grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 463 Italian Poetry from Romanticism to Hermeticism**

3 cr. Undergraduate/Graduate.

Foscolo, Leopardi, Carducci, Pascoli, D'Annunzio, Marinetti, Campana, Ungaretti, Montale, Quasimodo.

**Prerequisites:** jr st & Italian 321(P) & 312(P); or grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 463G Italian Poetry from Romanticism to Hermeticism**

3 cr. Undergraduate/Graduate.

Foscolo, Leopardi, Carducci, Pascoli, D'Annunzio, Marinetti, Campana, Ungaretti, Montale, Quasimodo.

**Prerequisites:** jr st & Italian 321(P) & 312(P); or grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 466 Italian Theatre from the Commedia Dell'Arte to Pirandello**

3 cr. Undergraduate.

Textual approach and historical development of the genre from the seventeenth to the twentieth century.

**Prerequisites:** jr st; Italian 311(P) & 312(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 489 Internship in Italian, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of Italian in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; Italian 311(P) & 312(P); 2.25 gpa; cons supervising faculty member.

**Course Rules:** Each cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 552 The Renaissance:**

3 cr. Undergraduate/Graduate.

One or more aspects of intellectual, literary, and artistic production in Italy from Petrarch and Humanism to the Counter-Reformation.

**Prerequisites:** jr st & Italian 311(P) & 312(P); or grad st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 552G The Renaissance:**

3 cr. Undergraduate/Graduate.

One or more aspects of intellectual, literary, and artistic production in Italy from Petrarch and Humanism to the Counter-Reformation.

**Prerequisites:** jr st & Italian 311(P) & 312(P); or grad st.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 597 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 597G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 659 The Divine Comedy**

3 cr. Undergraduate/Graduate.

Lectures on the life and times of Dante and reading of selected passages from his minor works.

**Prerequisites:** jr st & Italian 311(P) & 312(P); or grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 659G The Divine Comedy**

3 cr. Undergraduate/Graduate.

Lectures on the life and times of Dante and reading of selected passages from his minor works.

**Prerequisites:** jr st & Italian 311(P) & 312(P); or grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 660 The Divine Comedy**

3 cr. Undergraduate/Graduate.

Continuation of Italian 659.

**Prerequisites:** jr st & Italian 659(P) or cons instr; or grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**ITALIAN 660G The Divine Comedy**

3 cr. Undergraduate/Graduate.

Continuation of Italian 659.

**Prerequisites:** jr st & Italian 659(P) or cons instr; or grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 670 Studies in Italian Literature:**

3 cr. Undergraduate/Graduate.

Major movements or periods, criticism, studies in genres, relations between literature and other disciplines/arts.

**Prerequisites:** jr st & Italian 311(P) & 312(P); or grad st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 670G Studies in Italian Literature:**

3 cr. Undergraduate/Graduate.

Major movements or periods, criticism, studies in genres, relations between literature and other disciplines/arts.

**Prerequisites:** jr st & Italian 311(P) & 312(P); or grad st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 671 Major Italian Authors:**

3 cr. Undergraduate.

Specific subjects may be the works of one or several authors studied in the aesthetic and intellectual contexts of the period covered.

**Prerequisites:** jr st; Italian 311(P) & 312(P).**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 675 Literary Theory and Critical Perspectives**

3 cr. Undergraduate.

Major trends in Italian critical thought, with emphasis on contemporary literary theory and methods; stylistic, psychoanalytic, Marxist, and semiotic criticism.

**Prerequisites:** jr st; Italian 311(P) & 312(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 697 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 697G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**ITALIAN 699 Advanced Independent Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of an Italian faculty or instructional academic staff member. For additional information, consult Italian prog coord.

**Prerequisites:** jr st; 2.0 GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2021, Spring 2021, Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Japanese (JAPAN)

**JAPAN 100 Introduction to Japanese Literature**

3 cr. Undergraduate.

Survey of Japanese literature from the Heian Period to the present day.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 101 First Semester Japanese**

5 cr. Undergraduate.

Beginning Japanese for students with no previous knowledge of the language.

**Prerequisites:** none.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 102 Second Semester Japanese**

5 cr. Undergraduate.

Continuation of Japan 101.

**Prerequisites:** grade of C- or better in Japan 101(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 110 Japanese Popular Culture**

3 cr. Undergraduate.

Elements of popular culture that have come to define modern-day Japan. In English.

**Prerequisites:** none.**Last Taught:** Spring 2021, Fall 2014, Spring 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 111 Elementary Japanese I**

3 cr. Undergraduate.

Non-intensive Japanese language course for students who have no prior Japanese.

**Prerequisites:** none.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 112 Elementary Japanese II**

3 cr. Undergraduate.

Non-intensive Japanese language course for students who have completed JAPAN 111.

**Prerequisites:** JAPAN 111(P).**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 113 Elementary Japanese III**

3 cr. Undergraduate.

Non-intensive Japanese language course for students who have completed JAPAN 112.

**Prerequisites:** JAPAN 112(P).

**Course Rules:** JAPAN 113 is equivalent to JAPAN 102.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 192 First-Year Seminar.**

3 cr. Undergraduate.

Specific humanities topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 197 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Fall 2022, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 199 Independent Study**

1-3 cr. Undergraduate.

Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 200 Japanese Culture and Its Effect on Language**

3 cr. Undergraduate.

Through various forms of media, examination of different aspects of Japanese culture and how it impacts language.

**Prerequisites:** none.

**Course Rules:** No cr for students w/cr in Linguis 200 with similar title.

**General Education Requirements:** HU

**Last Taught:** Fall 2019, Spring 2016, Spring 2014, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 201 Third-Semester Japanese**

5 cr. Undergraduate.

Continuation of Japan 102, with some emphasis on the practice of Japanese writing.

**Prerequisites:** grade of C- or better in Japan 102(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 202 Fourth-Semester Japanese**

5 cr. Undergraduate.

Continuation of Japan 201, with some emphasis on the practice of Japanese writing.

**Prerequisites:** grade of C- or better in Japan 201(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 220 Introduction to Japanese Food Studies**

3 cr. Undergraduate.

Cultural, historical, geographic, and sociological aspects of Japanese food culture as related to everyday Japanese culinary practices.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 221 Japanese Film: Themes and Methods**

3 cr. Undergraduate.

Major films representing milestones in Japanese film history, from the 1930s to the turn of the twenty-first century.

**Prerequisites:** none.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 277 Japanese Discussion Section:**

1-2 cr. Undergraduate.

Discussion in Japanese, designed to broaden perspectives, improve language skills. Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc.).

**Prerequisites:** Japan 202(Linguis 242)(P) or cons instr.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 289 Internship in Japanese, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Japanese in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** 2.50 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires department and associate dean approval. In exceptional circumstances, can be offered in one additional semester.

**Prerequisites:** none; additional prerequisites may be assigned to specific topic.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2020, Spring 2018, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 301 Fifth Semester Japanese**

4 cr. Undergraduate.

Continuation of Japan 202.

**Prerequisites:** grade of C- or better in Japan 202(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 302 Sixth Semester Japanese**

4 cr. Undergraduate.

Continuation of Japan 301.

**Prerequisites:** grade of C- or better in Japan 301(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 310 Enhanced Knowledge & Skills for the Japanese Language Proficiency Test**

3 cr. Undergraduate.

Preparation for levels N2 and N3 of the Japanese Language Proficiency Exam.

**Prerequisites:** May be retaken to 12 credits max. Prereq; Japan 202(P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro credits).

**Last Taught:** Fall 2022, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 312 Japanese Conversation II**

3 cr. Undergraduate.

Training in advanced Japanese conversation skills for a wide variety of social settings.

**Prerequisites:** JAPAN 201(P).

**Last Taught:** Spring 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 321 Analyzing Hollywood-Japan Film Remakes**

3 cr. Undergraduate.

Critical knowledge and understanding of Japanese society and elements of Japanese culture acquired through an investigation of Hollywood-Japan film remakes.

**Prerequisites:** jr st.

**Course Rules:** In English. Counts as a repeat of Japan 499 w/same topic.

**Last Taught:** Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 330 Japanese Language and Culture**

3 cr. Undergraduate.

Japanese expression and culture; influence of Japanese history, customs, and geographic features on the Japanese language.

**Prerequisites:** Prereq; Japan 202 (Linguis 242)(P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro credits).

**Last Taught:** Spring 2017, Spring 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 331 Reading Japanese Short Stories**

3 cr. Undergraduate.

Introduction to Japanese short stories to improve reading skills, vocabulary, and understanding of Japanese culture.

**Prerequisites:** Japan 202(P).

**Course Rules:** Generates L&S credits for demonstrated equivalent preparation (14 retro crs).

**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 332 Extensive Reading in Japanese**

1 cr. Undergraduate.

Reading practice utilizing easy readers, children's books, manga, and novels. Counts as repeat of Japan 299 w/ similar topic. May be retaken w/chg in topic to 3 cr max.

**Prerequisites:** jr st, Japan 101(P).

**Last Taught:** Spring 2023, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 345 Japanese News Media**

3 cr. Undergraduate.

Training in reading and consuming Japanese news media in a variety of formats.

**Prerequisites:** JAPAN 301(C) or consent of instructor.

**Course Rules:** Retakeable with change in topic to 9 credits max.

**Last Taught:** Fall 2023, Spring 2022, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 351 Japanese Performance Traditions**

3 cr. Undergraduate.

Japanese performance of drama and comedy from noh and kabuki to modern performance.

**Prerequisites:** jr st; satisfaction of OWC-A GER.

**General Education Requirements:** HU, OWCB

**Last Taught:** Spring 2022, Fall 2019, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 352 Japanese Performance Traditions: Readings**

1 cr. Undergraduate.

Readings in Japanese performance texts from medieval noh scripts to modern Japanese theater.

**Prerequisites:** jr st or cons instr; completion of OWC-A GER; Japan 351(C)

**Last Taught:** Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 355 Seminar in Japanese Literature and Culture:**

3 cr. Undergraduate.

Readings and discussion in English on selected topics in Japanese literature and culture.

**Prerequisites:** jr st; completion of Oral and Written Communication (OWC) Competency Part A.**Course Rules:** May be retaken to a max of 9 crs.**General Education Requirements:** OWCB**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 356 Seminar in Japanese Literature: Readings**

1 cr. Undergraduate.

Readings of Japanese literature in Japanese, offered as an optional lab to JAPAN 355.

**Prerequisites:** JAPAN 301(C) or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 361 Translating Japanese Media**

3 cr. Undergraduate.

Development of the vocabulary, grammar knowledge, translating skills, and cultural sensitivities necessary to produce viable translations.

**Prerequisites:** Japan 202(P).**Course Rules:** Generates L&S credits for demonstrated equivalent preparation (14 retro crs).**Last Taught:** Fall 2021, Spring 2020, Fall 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 370 Fun Kanji**

2 cr. Undergraduate.

Extensive practice in use of kanji, in order to enhance students' ability to read Japanese materials fluently.

**Prerequisites:** jr st and Japan 101(P).**Course Rules:** Counts as repeat of Japan 299 w/ similar topic.**Last Taught:** Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 397 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before coursework level, content, and credits are determined and/or in specially-prepared program coursework.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** Spring 2023, Fall 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 401 Seventh Semester Japanese**

4 cr. Undergraduate.

Continuation of Japan 302.

**Prerequisites:** grade of C- or better in Japan 302(P) or equiv. Generates L&S credits for demonstrated equivalent preparation (16 retro crs).**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 402 Eighth Semester Japanese**

4 cr. Undergraduate.

Continuation of Japan 401.

**Prerequisites:** grade of C- or better in Japan 401(P). Generates L&S credits for demonstrated equivalent preparation (16 retro crs).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 416 Introduction to Translation: Japanese to English**

3 cr. Undergraduate.

Basic skills for translating texts from Japanese to English; focus on articles and documents encountered in business, banking, legal, medical, and academic contexts.

**Prerequisites:** jr st; grade of B or better in 300-level or above Japanese language course. .**Last Taught:** Fall 2013, Fall 2012, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 441 Business Japanese I**

3 cr. Undergraduate.

Language and cultural studies that develop the practical knowledge and skills needed for doing business with Japan.

**Prerequisites:** Japan 302(P).**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 489 Internship in Japanese, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles of Japanese in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.50 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.**Last Taught:** Fall 2021, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereq may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2016, Spring 2013, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 500 Research and Research Writing in Japanese**

3 cr. Undergraduate.

Capstone course for Japanese major. Students conduct research in Japanese and produce a thesis and presentation based on that research.

**Prerequisites:** grade of B- or better in Japan 401(P); pass level N3 of Japanese Language Proficiency Test; or cons instr.**Course Rules:** Not open to students who have completed Japanese capstone req under FLL 499 or Japan 699.**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAPAN 516 Seminar in Advanced Translation: Japanese to English**

3 cr. Undergraduate.

Translation of ideas and conceptual knowledge in subject areas that include economics, law, society, culture, and history.

**Prerequisites:** Japan 416(P).**Last Taught:** Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 597 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 597G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 697 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 697G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAPAN 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of a Japanese faculty or academic staff member.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2022, Spring 2020, Fall 2017, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Jewish Studies (JEWISH)

**JEWISH 100 Introduction to Judaism**

3 cr. Undergraduate.

Laws, beliefs, rituals, and holidays of the Jewish religion and people; development of Judaism.

**Prerequisites:** none.**Course Rules:** Previously HEBR ST 100. No credit for students with credit in HEBR ST 238 with same topic.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 101 Jewish Culture in America: History, Literature, Film**

3 cr. Undergraduate.

Cross-disciplinary study of modern Jewish culture in America, with particular attention given to Jewish-American literature, film, and history of the nineteenth and twentieth centuries.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2021, Spring 2020, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 131 Introduction to Biblical Studies**

3 cr. Undergraduate.

Introduction to biblical and post-biblical literature; languages and scripts of the Bible; cultural and historical background of the Bible; ancient and modern bible translations.

**Prerequisites:** none.**Course Rules:** Previously HEBR ST 131.**General Education Requirements:** HU**Last Taught:** Spring 2008, Spring 2005, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific humanities topics are announced in the Timetable each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** HU**Last Taught:** Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 193 First-Year Seminar:**

3 cr. Undergraduate.

Specific social science topics are announced in the Timetable each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 199 Independent Study**

1-3 cr. Undergraduate.

Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Spring 2018, Spring 2010, Fall 2009, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 230 Bible Stories**

3 cr. Undergraduate.

Introduction to the central stories of the Hebrew Bible with particular attention to their literary, aesthetic, social and moral meanings.

**Prerequisites:** none.**Course Rules:** Previously HEBR ST 230.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 231 Introduction to the Old Testament/Hebrew Bible**

3 cr. Undergraduate.

The books of the Jewish Scriptures/Christian Old Testament; brief survey of history of ancient Israel. Emphasis on reading biblical texts as ancient religious literature.

**Prerequisites:** none.**Course Rules:** Previously HEBR ST 231.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 232 Survey of the Literature of the Post-Biblical Period**

3 cr. Undergraduate.

Readings (in English) of the Apocrypha & Pseudepigrapha, Philo and Josephus, and the Rabbinic literature of the Talmud and Midrash covering the period to 640 C.E.

**Prerequisites:** none; one course in 100-level lit-in-trans or 200-level English lit advisable.**Course Rules:** Previously HEBR ST 232.**General Education Requirements:** HU**Last Taught:** Spring 1996, Spring 1994, Spring 1991.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 234 Survey of Modern Hebrew and Jewish Literature in Translation**

3 cr. Undergraduate.

Hebrew civilization in the modern period (1789 to present). Readings (in English) in modern Hebrew literature, history, and philosophy.

**Prerequisites:** none. One course in 100-level lit in trans or 200-level English lit advisable.**Course Rules:** Previously HEBR ST 234.**Last Taught:** Fall 1997, Fall 1995, Fall 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 235 The Dead Sea Scrolls and the Bible**

3 cr. Undergraduate.

Literature and theology of the 'Dead Sea Scrolls,' emphasizing their relationship to the Bible. Their importance for studying the history of early Judaism and Christianity.

**Prerequisites:** none.**Course Rules:** Previously HEBR ST 235.**General Education Requirements:** HU**Last Taught:** Spring 2012, Fall 2006, Fall 2005, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 247 Topics in Jewish Literature, Art, and Culture:**

3 cr. Undergraduate.

Introduction to various aspects of modern Jewish literature, art, and culture; possible topics include Jewish music, Jewish American literature, Holocaust literature, and Jewish art.

**Prerequisites:** none.**Course Rules:** May be retaken with change in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Spring 2014, Fall 2012, Fall 2011, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 252 American Jewish Community: 1654 to the Present**

3 cr. Undergraduate.

The social and intellectual development of the largest Jewish community in the world, its problems and its immigrant backgrounds.

**Prerequisites:** sophomore standing.**Course Rules:** Previously HEBR ST 252.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 261 Representing the Holocaust in Words and Images**

3 cr. Undergraduate.

Holocaust literature and film; issues of representation and memory. Texts include memoirs, graphic novels, fiction, and documentaries.

**Prerequisites:** none.**Course Rules:** No credit for students with credit in HEBR ST 238 with same topic. HEBR ST 261/JEWISH 261 were previously jointly offered. They count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 282 Jewish Identity in Contemporary America**

3 cr. Undergraduate.

What it means to be Jewish in America; how individuals and communities shape identities; how minority culture is shaped by American values.

**Prerequisites:** none.**Course Rules:** No credit for students with credit in HEBR ST 254 with same topic. HEBR ST 282 and JEWISH 282 were previously jointly offered, and count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2010, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 289 Internship in Jewish Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Jewish studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Jewish; 2.50 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.**Last Taught:** Fall 2011, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2019, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 321 The Holocaust and the Politics of Memory**

3 cr. Undergraduate.

Exploration of the political, sociological, and cultural motivations behind public debates about the Holocaust in post-WWII Germany, Israel, and France.

**Prerequisites:** jr st.**Last Taught:** Fall 2013, Spring 2012, Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 328 The Arab-Israeli Conflict**

3 cr. Undergraduate/Graduate.

Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic.

**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 328G The Arab-Israeli Conflict**

3 cr. Undergraduate/Graduate.

Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic.

**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 331 Topics in Biblical Literature:**

3 cr. Undergraduate.

Analysis of genres or issues in biblical literature; topics may include wisdom literature, prophetic writings, Bible as literature, God in the Old Testament.

**Prerequisites:** jr st.**Course Rules:** May be retaken with change in topic to 9 cr max.

Previously HEBR ST 331.

**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 332 Women in the Bible**

3 cr. Undergraduate.

Analyzes stories about women in the Old Testament from a literary, cultural and historical perspective; includes how these texts have influenced modern views of women.

**Prerequisites:** jr st.**Course Rules:** Previously HEBR ST 332.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 350 Global Jewish Film and Television:**

3 cr. Undergraduate.

Global Jewish identity in its historic and contemporary cultural dimensions through film and media texts, analysis, and criticism.

**Prerequisites:** junior standing.

**Course Rules:** Retakable with change in topic to 9 cr max. ENGLISH 350, FILMSTD 350, and JEWISH 350 are jointly offered; with the same topic, they count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 358 The Jews of Modern Europe: History and Culture**

3 cr. Undergraduate/Graduate.

History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.

**Prerequisites:** jr st.

**Course Rules:** Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 358G The Jews of Modern Europe: History and Culture**

3 cr. Undergraduate/Graduate.

History of the Jews in Europe from the middle of the eighteenth century to the present, with an emphasis on their cultural production.

**Prerequisites:** jr st.

**Course Rules:** Hist 358 & Jewish 358 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 368 Jewish and Christian Responses to the Holocaust**

3 cr. Undergraduate.

Jewish and Christian answers to theological questions raised by the Holocaust, such as 'Where was God?' Focus on interfaith dialogue and understanding.

**Prerequisites:** jr st.

**Course Rules:** No credit for students with credit in HEBR ST 254 with same topic. HEBR ST 368 and JEWISH 368 were previously jointly offered; they count as repeats of one another.

**General Education Requirements:** HU**Last Taught:** Spring 2022, Spring 2020, Spring 2017, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JEWISH 379 Introduction to Jewish History**

3 cr. Undergraduate.

Historical survey of major currents in Jewish culture and society from antiquity to the present day, with particular focus on the modern era.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Course Rules:** HIST 379 and JEWISH 379 are jointly offered; they count as repeats of one another.

**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**JEWISH 411 Old Testament Texts:**

3 cr. Undergraduate/Graduate.

Reading of Hebrew text through grammatical and critical analysis.

Specific topics and any additional prerequisites will be announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st; HEBR ST 106(P) or HEBR ST 202(P).

**Course Rules:** Previously HEBR ST 411. Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 1994, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 411G Old Testament Texts:**

3 cr. Undergraduate/Graduate.

Reading of Hebrew text through grammatical and critical analysis.

Specific topics and any additional prerequisites will be announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st; HEBR ST 106(P) or HEBR ST 202(P).

**Course Rules:** Previously HEBR ST 411. Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 1994, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 421 Introduction to Yiddish Literature:**

3 cr. Undergraduate.

Development of Yiddish literature from medieval times to the twentieth century; close readings of works of major writers.

**Prerequisites:** jr st.

**Course Rules:** In English. May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 449 Modern Jewish Thought**

3 cr. Undergraduate.

Historical development of Jewish philosophical thought since the nineteenth century; close reading of influential thinkers of modern and contemporary times.

**Prerequisites:** jr st.

**Course Rules:** No cr for students w/cr in Hebr St 499 w/same title.

**Last Taught:** Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 489 Internship in Jewish Studies, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles of Jewish studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above Jewish course; 2.50 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2021, Spring 2018, Fall 2013, Summer 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 500 Seminar in Jewish Studies:**

3 cr. Undergraduate.

Seminar on a particular topic in Jewish Studies.

**Prerequisites:** jr st; a Hebr St or Jewish course; or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of a Jewish studies faculty or academic staff member.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JEWISH 799 Independent Study**

1-3 cr. Graduate.

Independent reading or project; topic selected in consultation with supervising professor.

**Prerequisites:** grad st

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Journalism, Advertising, and Media Studies (JAMS)

**JAMS 101 Introduction to Mass Media**

3 cr. Undergraduate.

Overview of mass media from the printing press to the internet. Focus on media technologies, industries, content, and critical approaches.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 111 Gender and the Media**

3 cr. Undergraduate.

How gender representations in popular media inform and construct our understandings of the world; gender in popular culture, including new media; critical analysis of representations.

**Prerequisites:** none.

**Course Rules:** No credit for students with credit in JAMS 460.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 113 Internet Culture**

3 cr. Undergraduate.

Social, cultural, and historical dimensions of the Internet.

**Prerequisites:** none.**Course Rules:** DAC 113 and JAMS 113 are jointly offered and count as repeats of one another.**General Education Requirements:** HU**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 116 Journalism, Documentary, and Democracy**

3 cr. Undergraduate.

The role of journalism and documentary in democracy examined through a variety of media products.

**Prerequisites:** none.**Last Taught:** Fall 2016, Summer 2015, Summer 2014, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 192 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** HU**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 193 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics announced in Schedule of Classes each time course is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.5 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Spring 2011, Summer 2008, Spring 2008, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 201 Media Writing**

3 cr. Undergraduate.

Techniques and strategies for writing that can communicate effectively with media audiences; emphasizes innovation and creativity within the constraints of good grammar and style.

**Prerequisites:** satisfaction of OWC-A GER**General Education Requirements:** OWCB**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 204 News Writing**

3 cr. Undergraduate.

Writing for print/online, audio, and video journalism.

**Prerequisites:** a grade of C or better in JAMS 101(P) and JAMS 201(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 207 Introduction to Advertising and Public Relations**

3 cr. Undergraduate.

A practical approach to developing, implementing, and evaluating advertising and public relations strategies.

**Prerequisites:** C or better in JAMS 101(P) and JAMS 201(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 212 Introduction to Corporate Communication**

3 cr. Undergraduate.

The profession of corporate communication; focus on the variety of mass communication strategies in the field.

**Prerequisites:** none.**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 214 Advertising in American Society**

3 cr. Undergraduate.

A critical survey of advertising's development and current practices as well as its impact on knowledge, attitudes, and behaviors.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2022, UWinterIM 2020, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 231 Publication Design**

3 cr. Undergraduate.

Principles of print layout and design.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 232 Photojournalism**

3 cr. Undergraduate.

The history of photography and the practice of photojournalism, including aesthetic, conceptual, and technical developments. Digital production and distribution.

**Prerequisites:** soph st.**Last Taught:** Spring 2020, Summer 2015, Summer 2014, Summer 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 262 Principles of Media Studies**

3 cr. Undergraduate.

Central issues and concerns in the field of media studies. Cultural study of media industries and production practices. Analysis of media texts and audiences.

**Prerequisites:** C or better in JAMS 101(P) and JAMS 201(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 280 Selected Topics in Mass Communication:**

3 cr. Undergraduate.

Selected topics not addressed in regularly-approved courses.

**Prerequisites:** soph st; add'l prereqs, if any, announced in the Schedule of Classes.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Summer 2017, Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 289 Internship in Journalism and Media Communication, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** GPA of at least 2.5; a grade of C or better in JAMS 204(P), JAMS 207(P), or JAMS 262(P); declared JAMS major or minor; and consent of the department internship committee.

**Course Rules:** Students earn one academic credit per 40 hours of internship placement. Does not count toward JAMS major or minor. Cr/no cr only. May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Fall 2022, Summer 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance into UROP; prior or conc reg in UROP seminar.

**Last Taught:** Spring 2011, Fall 2010, Fall 2009, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2013, Fall 2012, Spring 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 302 Introduction To Video Storytelling**

3 cr. Undergraduate.

Introduction to video producing, recording, and editing of visual stories.

**Prerequisites:** grade of C or better in JAMS 201(P).

**Course Rules:** Counts as a repeat of JAMS 380 with the same topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 304 News Literacy**

3 cr. Undergraduate.

Assessing the quality and trustworthiness of news sources and analyzing coverage of current events using investigative tools, fact checking and critical thinking skills.

**Prerequisites:** none.

**Course Rules:** Not open for credit to students with credit in JAMS 356.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 306 Feature and Magazine Article Writing:**

3 cr. Undergraduate.

Using interviews, analysis and/or observation to produce feature and profile stories.

**Prerequisites:** jr st; declared JAMS major/minor or English major.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 307 Persuasive Media Writing and Production:**

3 cr. Undergraduate.

Writing, design, and production of persuasive media elements through individual and group work and skills-based activities.

**Prerequisites:** declared JAMS major/minor; grade of C or better in JAMS 207(P).

**Course Rules:** May not be retaken for cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 317 Design for Advertising**

3 cr. Undergraduate.

Basic principles of design and typesetting will be utilized to create and design a variety of individual ad types and ad campaigns.

**Prerequisites:** declared JAMS major or minor, and a grade of C or better in JAMS 204, JAMS 207, or JAMS 262.

**Course Rules:** Counts as a repeat of JAMS 380 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 320 News Reporting**

3 cr. Undergraduate.

Reporting in a newsroom setting using digital distribution tools to reach audiences.

**Prerequisites:** JAMS major or minor and a grade of C or better in JAMS 204(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 325 Audio Storytelling**

3 cr. Undergraduate.

Analysis of audio storytelling techniques and impact; audio storytelling production.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of JAMS 380 w/similar topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 332 Introduction to Digital Documentary**

3 cr. Undergraduate.

Analyzing, filming and editing a quality documentary for client use, broadcast television, or film festival entry.

**Prerequisites:** junior standing and a grade of C or better in JAMS 302(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 336 Media Graphics**

3 cr. Undergraduate.

Production and analysis of mass media graphics, photographs, and illustrations.

**Prerequisites:** junior standing; JAMS major/minor or Digital Arts and Culture (DAC) status; grade of C or better in ART 118(P) or JAMS 113(P).**Course Rules:** DAC 336 and JAMS 336 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 342 Television News Reporting**

3 cr. Undergraduate.

Reporting, writing, and editing television news, including field camera operation and video editing.

**Prerequisites:** declared JAMS major or minor; grade of C or better in JAMS 302(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 370 Introduction to Social Media and Search Engine Optimization**

3 cr. Undergraduate.

Principles of professional social media management and content creation; search engine optimization for online media.

**Prerequisites:** junior standing.**Course Rules:** Counts as repeat of JAMS 380 with similar topic, including 'Professional Social Media & Online Audience Growth'.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 380 Special Topics in Journalism, Advertising, and Media Studies:**

3 cr. Undergraduate.

Special topics not addressed in regularly-approved courses.

**Prerequisites:** jr st; any add'l prereqs announced in Schedule of Classes.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 399 On-Campus Internship**

3 cr. Undergraduate.

Professional internship in journalism, public relations, advertising, or other media.

**Prerequisites:** GPA of 2.5 or higher; a grade of C or better in JAMS 204(P), JAMS 207(P), or JAMS 262(P); declared JAMS major or minor; and consent of department internship committee.**Course Rules:** Students earn one academic credit per 40 hours of internship placement. May be retaken to 6 cr max in combination with JAMS 600.**Last Taught:** Spring 2023, Fall 2022, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 407 Media Planning**

3 cr. Undergraduate.

Exploration and analysis of advertising media buying and planning.

**Prerequisites:** junior standing; a grade of C or better in JAMS 207(P); or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 417 Branding and Campaign Analysis**

3 cr. Undergraduate.

Discuss how good brand management helps create effective campaigns in advertising and public relations.

**Prerequisites:** JAMS major or minor and a grade of C or better in JAMS 204(P), JAM 207(P), or JAMS 262(P).**Course Rules:** May not be retaken for credit; counts as a repeat of JAMS 380 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 450 Race and Ethnicity in the Media**

3 cr. Undergraduate.

How popular media representations of race inform understandings of past and contemporary society; race in popular culture, especially new media; critical analysis of media content and forms.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of JMC 660 w/similar topic.**Last Taught:** UWinteriM 2018, UWinteriM 2017, UWinteriM 2016,

UWinteriM 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 460 History of Mass Media**

3 cr. Undergraduate.

Evolution of mass media in the United States; how technological, cultural, political and economic changes have affected the media.

**Prerequisites:** jr st.**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 461 Media Ethics**

3 cr. Undergraduate.

Practical application of ethical principles to controversies in print and broadcast journalism, advertising, public relations, and new technologies of mass communication.

**Prerequisites:** junior standing.**Course Rules:** Previously JAMS 361.**General Education Requirements:** HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 481 Topics in Social Media:**

3 cr. Undergraduate.

Topics examining social media's use, influence and/or development.

**Prerequisites:** May be retaken w/chg in topic to 6 cr max. Prereq. jr st.

Not open for cr to students w/ cr in JAMS 380 w/ similar topic.

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 489 Internship in Journalism and Media Communication, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles of journalism and media communication in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** GPA of 2.5 or higher; a grade of C or better in JAMS 307(P), JAMS 320(P), or JAMS 562(P); declared JAMS major or minor; and consent of department internship committee.

**Course Rules:** Students earn one academic credit per 40 hours of internship placement. A three-credit internship, therefore, requires the student to complete at least 120 hours. Does not count toward JAMS major or minor. Cr/no cr only. May be retaken to 6 cr max.

**Last Taught:** Spring 2023, Fall 2022, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 1999, Fall 1998, Spring 1998, Spring 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 500 Advanced Integrated Reporting**

3 cr. Undergraduate.

Advanced reporting and writing in an integrated newsroom setting.

**Prerequisites:** junior standing; declared JAMS major or minor; a grade of C or better in JAMS 320(P).

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 502 Specialized Reporting:**

3 cr. Undergraduate.

Overview of the problems and challenges of specialized reporting in an area such as social science, science, the humanities and the arts.

**Prerequisites:** jr st; declared JAMS major or minor; grade of C or better in JAMS 320(P).

**Course Rules:** May be retaken w/chg in topic to 9 cr max. Not open for cr to student w/cr in JAMS 602 w/similar topic.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 504 Critical and Opinion Writing**

3 cr. Undergraduate.

Opinion, column and review writing for multiple platforms.

**Prerequisites:** junior standing.

**Last Taught:** Summer 2022, Summer 2021, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 505 Research for Advertising and Public Relations**

3 cr. Undergraduate/Graduate.

Development of market and audience research strategies through hands-on projects.

**Prerequisites:** junior standing; a grade of C or better in JAMS 207(P); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 505G Research for Advertising and Public Relations**

3 cr. Undergraduate/Graduate.

Development of market and audience research strategies through hands-on projects.

**Prerequisites:** junior standing; a grade of C or better in JAMS 207(P); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 524 Advertising and Public Relations Campaigns**

3 cr. Undergraduate.

Advanced course in advertising and public relations; emphasis on applying integrated practices and principles.

**Prerequisites:** jr st; grade of C or better in JAMS 222(P), 224(P), or 307(P); declared JAMS major or minor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 559 Freedom of Expression in the Digital Age**

3 cr. Undergraduate/Graduate.

First Amendment, copyright, privacy, libel, and other legal issues in contemporary news, media, persuasive communication, and social communication.

**Prerequisites:** jr st.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 559G Freedom of Expression in the Digital Age**

3 cr. Undergraduate/Graduate.

First Amendment, copyright, privacy, libel, and other legal issues in contemporary news, media, persuasive communication, and social communication.

**Prerequisites:** jr st.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 562 Media Studies and Culture**

3 cr. Undergraduate/Graduate.

Mass media and the production of culture; media industries, content, and audiences; focus on contemporary issues.

**Prerequisites:** jr st; grade of C or better in JAMS 262(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 562G Media Studies and Culture**

3 cr. Undergraduate/Graduate.

Mass media and the production of culture; media industries, content, and audiences; focus on contemporary issues.

**Prerequisites:** jr st; grade of C or better in JAMS 262(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 600 Off-Campus Internship**

3 cr. Undergraduate.

Professional internship in journalism, public relations, advertising, or other media.

**Prerequisites:** GPA of 2.5 or greater; a grade of C or better in JAMS 307(P), JAMS 320(P), or JAMS 562(P); declared JAMS major or minor; and consent of department internship committee.

**Course Rules:** Students earn one academic credit per 40 hours of internship placement. May be retaken to 6 cr max in combination with JAMS 399.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 600G Off-Campus Internship**

3 cr. Undergraduate.

Professional internship in journalism, public relations, advertising, or other media.

**Prerequisites:** GPA of 2.5 or greater; a grade of C or better in JAMS 307(P), JAMS 320(P), or JAMS 562(P); declared JAMS major or minor; and consent of department internship committee.

**Course Rules:** Students earn one academic credit per 40 hours of internship placement. May be retaken to 6 cr max in combination with JAMS 399.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 614 Seminar in Media and Public Opinion**

3 cr. Undergraduate/Graduate.

Preparation to be critical consumer of polls and media coverage of them; theories and findings regarding propaganda and media influence on public opinion.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 614G Seminar in Media and Public Opinion**

3 cr. Undergraduate/Graduate.

Preparation to be critical consumer of polls and media coverage of them; theories and findings regarding propaganda and media influence on public opinion.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 615 Seminar in Media and Politics**

3 cr. Undergraduate/Graduate.

How news media cover politics; role of traditional and new media in political campaigns; political content and effects of entertainment media and documentaries.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 615G Seminar in Media and Politics**

3 cr. Undergraduate/Graduate.

How news media cover politics; role of traditional and new media in political campaigns; political content and effects of entertainment media and documentaries.

**Prerequisites:** jr st.

**Last Taught:** Fall 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 616 Seminar in Sports, Media, and Society**

3 cr. Undergraduate/Graduate.

Lens of sports to explore the ways we know what we know about how media operate in a society and asks students to produce research adding to that knowledge.

**Prerequisites:** junior standing and JAMS major or minor; or graduate standing.

**Course Rules:** Counts as a repeat of JAMS 660 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 616G Seminar in Sports, Media, and Society**

3 cr. Undergraduate/Graduate.

Lens of sports to explore the ways we know what we know about how media operate in a society and asks students to produce research adding to that knowledge.

**Prerequisites:** junior standing and JAMS major or minor; or graduate standing.

**Course Rules:** Counts as a repeat of JAMS 660 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 620 Seminar in Global Media**

3 cr. Undergraduate/Graduate.

Economic, regulatory, and cultural characteristics of national and global mass media.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 620G Seminar in Global Media**

3 cr. Undergraduate/Graduate.

Economic, regulatory, and cultural characteristics of national and global mass media.

**Prerequisites:** jr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 660 Seminar in Contemporary Issues in Media Studies:**

3 cr. Undergraduate/Graduate.

Research-oriented approaches to theoretical and social issues in mass communication.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 660G Seminar in Contemporary Issues in Media Studies:**

3 cr. Undergraduate/Graduate.

Research-oriented approaches to theoretical and social issues in mass communication.

**Prerequisites:** junior standing.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 661 Seminar in Media Communication and Society:**

3 cr. Undergraduate/Graduate.

Topics related to the mass media; the research process; development of a seminar paper based on original research.

**Prerequisites:** junior standing; additional prerequisites, if any, announced in the Schedule of Classes.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 661G Seminar in Media Communication and Society:**

3 cr. Undergraduate/Graduate.

Topics related to the mass media; the research process; development of a seminar paper based on original research.

**Prerequisites:** junior standing; additional prerequisites, if any, announced in the Schedule of Classes.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 699 Advanced Independent Study**

1-6 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** jr st, 2.0 GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 700 Approaches to Media Studies**

3 cr. Graduate.

Review and analysis of research in media studies; preparation for scholarly writing.

**Prerequisites:** admis to MA prog in Media Studies or cons instr.**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 701 Media Studies Research Design**

3 cr. Graduate.

Qualitative and quantitative research methods in media studies; preparation of a research proposal.

**Prerequisites:** admis to MA prog in Media Studies or cons instr.**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 815 Media and Cultural Studies**

3 cr. Graduate.

Cultural approaches to the study of media; design and execution of a research project.

**Prerequisites:** grad st.**Last Taught:** Fall 2020, Fall 2016, Spring 2007, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 820 Persuasion in Media**

3 cr. Graduate.

Examination of theoretical approaches, research methods, and findings in the study of persuasive media; design and execution of a research project.

**Prerequisites:** grad st.**Last Taught:** Fall 2008, Spring 1999, Spring 1997, Fall 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 830 Topics in Media History:**

3 cr. Graduate.

Historical approaches to the study of media; design and execution of a research project.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2021, Spring 2020, Spring 2018, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 840 Topics in Media Law and Ethics:**

3 cr. Graduate.

In-depth study and discussion of law and ethics as they relate to the mass media; development of original research for publication in scholarly journals.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2017, Fall 2015, Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 845 Topics in Gender, Sexuality, and Media:**

3 cr. Graduate.

Analysis of gender, sexuality, and other aspects of identity in and related to media.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 850 Global Media and Local Cultures**

3 cr. Graduate.

Seminar covering major theories and critiques of globalization, with a particular emphasis on the study of media and culture.

**Prerequisites:** grad st.**Last Taught:** Spring 2008, Fall 2005, Fall 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 855 Topics in New Media:**

3 cr. Graduate.

History, theory, and/or criticism of new media.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2020, Spring 2017, Fall 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**JAMS 860 Seminar in Media Studies:**

3 cr. Graduate.

In-depth study and discussion of a current topic in media studies.

Specific topics announced in the Schedule of Classes.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2020, Fall 2019, Fall 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 888 Candidate for Degree**

0 cr. Graduate.

Available for grad students who must meet minimum cr load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2020, Spring 2020, Summer 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 990 Research and Thesis**

1-6 cr. Graduate.

Production of a thesis under the supervision of the student's major professor with the consultation of the degree committee.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 991 Professional Project**

1-6 cr. Graduate.

Preparation and execution of a project which applies mass communication research and theory in a professional setting.

**Prerequisites:** grad st; cons instr.**Course Rules:** Students enroll under major prof with consultation of degree committee.**Last Taught:** Spring 2021, Spring 2020, Fall 2019, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**JAMS 999 Graduate Independent Study**

1-3 cr. Graduate.

Supervised research of a particular topic area either not covered by other courses or at a level of sophistication beyond that of courses which cover the topic.

**Prerequisites:** grad st; 3.00 grad gpa; writ cons grad dir.**Course Rules:** Retakable to 6 cr max.**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Kinesiology (KIN)

**KIN 190 Topics Course in Physical Activity:**

1-3 cr. Undergraduate.

Introductory level topics of current interest in health and physical activity.

Special course fees may be required depending on topic.

**Prerequisites:** none, except as required for specific topic.**Course Rules:** Counts as repeat of Spt&Rec 290 & Kin 290 with same topic. May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 200 Introduction to Kinesiology**

3 cr. Undergraduate.

Introduction to the discipline of kinesiology and its subdisciplines of exercise physiology, motor behavior, biomechanics, and psychology and sociology of physical activity.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 202 Field Work in Kinesiology**

1 cr. Undergraduate.

Practical, supervised, service-learning in the field of kinesiology.

**Prerequisites:** Kin 201(C).**Course Rules:** Counts as repeat of Kin 210.**Last Taught:** Spring 2011, Fall 2010, Spring 2010, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 211 First Aid and Cardiopulmonary Resuscitation**

1 cr. Undergraduate.

CPR for adults, children, and infants; AED; and First Aid.

**Prerequisites:** none.**Last Taught:** UWinterIM 2014, Spring 2009, Fall 2008, Summer 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 212 Fieldwork in Athletic Training**

1 cr. Undergraduate.

On-site observation of the athletic training profession. Students will rotate through different on-campus sites.

**Prerequisites:** Kin 310(C).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 216 Organization and Administration of Athletic Training**

3 cr. Undergraduate.

Delivery of athletic training services in various settings. Topics include program, personnel, information management, budgeting, documentation, insurance, legal considerations and current topics.

**Prerequisites:** admitted to athletic training maj; Kin 316(P); Kin 410(C) & Kin 416(C); or cons instr.**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 220 Anatomical Kinesiology**

3 cr. Undergraduate.

Anatomical analysis of the human body including joint actions, anatomical, muscular, and neuromuscular control aspects necessary for movement.

**Prerequisites:** none.**Course Rules:** Previously KIN 325.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 230 Health Aspects of Exercise and Nutrition**

3 cr. Undergraduate.

Examines physical fitness and proper nutrition as lifestyle choices in maintaining optimal health and minimizing health risks.

**Prerequisites:** none.**Course Rules:** Not open to students with credit in KIN 530, KIN 532, or PRPP 736. KIN 230 and NUTR 230 are jointly offered; they count as repeats of one another.**General Education Requirements:** NS**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**KIN 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective**

3 cr. Undergraduate.

Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.

**Prerequisites:** soph st or cons instr.

**Course Rules:** BMS/ComSDis/HCA/Kin/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 255 Women in Sport and Physical Activity**

3 cr. Undergraduate.

Introduction theory and research on female participation in sport and physical activity.

**Prerequisites:** soph st or cons instr.

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 270 Statistics in the Health Professions: Theory and Practice**

3 cr. Undergraduate.

Overview of statistical theory and practical application for health professionals. Includes problem solving strategies, descriptive and inferential techniques, and critical evaluation of research design.

**Prerequisites:** Satisfaction of Quantitative Literacy Part A.

**General Education Requirements:** QL B

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 289 Seminar in Athletic Training**

0 cr. Undergraduate.

Exposure to peer presentations, guest lectures on current topics, current literature updates/discussion, and program information updates.

**Prerequisites:** acceptance into Athletic Training prog.

**Course Rules:** Must be taken by student in the ATEP each sem of prog. Fee for 1 cr assessed.

**Last Taught:** Spring 2008, Fall 2007, Spring 2007, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 290 Special Topics in Human Movement Sciences:**

1-3 cr. Undergraduate.

Topics of current interest in kinesiology, health, and fitness. Special course fees may be required depending on course.

**Prerequisites:** specified in semester Schedule whenever required for a topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 296 UROP Research Study:**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising faculty member. One credit for 45 hours research.

**Prerequisites:** Acceptance to UROP prior or conc reg in UROP sem; cons instr.

**Course Rules:** May be retaken to 9 cr max in any combination of UROP Research Study courses.

**Last Taught:** Spring 2019, Fall 2017, Fall 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specifically prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2018, Spring 2010, Fall 2009, Summer 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 298 Independent Projects**

1-3 cr. Undergraduate.

Designed for individual and small group research projects under faculty supervision.

**Prerequisites:** writ cons instr.

**Last Taught:** Fall 2021, Spring 2020, Fall 2016, Summer 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 299 Independent Reading**

1-3 cr. Undergraduate.

Designed for individual and small groups in special study. Meetings/nature of study to be arranged with staff/faculty chosen to supervise.

**Prerequisites:** cons instr.

**Last Taught:** Spring 2020, Spring 2019, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 300 Professional Preparation Seminar**

1 cr. Undergraduate.

Seminar lecture/discussion to prepare students for internships and other professional opportunities. Topics include goal setting, resume-writing, site selection, interviewing techniques, and professional development.

**Prerequisites:** KIN 200(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 301 Field Experience in Kinesiology - I**

1 cr. Undergraduate.

Science and methods of exercise instruction for leading groups.

**Prerequisites:** admis to Kin major.

**Course Rules:** Counts as repeat of Kin 290 w/same topic.

**Last Taught:** Fall 2017, Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 302 Field Experience in Kinesiology - II**

1 cr. Undergraduate.

Science and methods of exercise instruction for coaching and training individuals.

**Prerequisites:** admis to Kin major.

**Last Taught:** Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 303 Field Experience in Kinesiology - III**

1 cr. Undergraduate.

Continued exposure to hands-on aspect of the field; prepare students for internship and develop advanced professional skills and conduct.

**Prerequisites:** Kin 302(P); & Kin 325(P), 336(C), 430(C) or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 310 Responding to Emergencies**

1 cr. Undergraduate.

Focus on the development of skills necessary for professionals to act as 'first responders' in providing emergency medical care.

**Prerequisites:** Kin 212(C).**Course Rules:** Credit/No Credit only.**Last Taught:** Fall 2014, Fall 2013, Fall 2012, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 311 CPR/AED Recertification**

1 cr. Undergraduate.

CPR/AED recertification and review of basic First Aid.

**Prerequisites:** Kin 211 or CPR & standard first aid certification.**Last Taught:** Spring 1990, Spring 1989, Fall 1987, Fall 1986.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 312 Introduction to Prevention, Recognition, and Treatment of Athletic Injuries**

3 cr. Undergraduate.

Introduction to athletic training principles and techniques necessary for the prevention, recognition, care, and rehabilitation of athletic injuries.

**Prerequisites:** enrolled in ATEP Program, Kin 310(P); or cons instr.**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 314 Recognition and Evaluation of Injuries: Lower Extremity**

3 cr. Undergraduate.

Techniques/knowledge necessary to perform examination, treatment, prevention, and rehabilitation of sport-related injuries and illnesses of the lower extremity and associated areas.

**Prerequisites:** admis to athletic training major; Kin 413(C), & 416(C); or cons instr.**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 315 Recognition and Evaluation of Injuries: Upper Extremity**

3 cr. Undergraduate.

Techniques/knowledge necessary to perform examination, treatment, prevention, and rehabilitation of sport-related injuries and illnesses of the upper extremity and associated areas.

**Prerequisites:** admis to athletic training major; Kin 413(P), & 416(C); or cons instr.**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 316 Recognition and Evaluation of Athletic Injuries: Head, Neck, and Trunk**

3 cr. Undergraduate.

Techniques/knowledge necessary to perform examination, treatment, prevention, and rehabilitation of sport-related injuries and illnesses of the head, neck, and torso.

**Prerequisites:** admis to athletic training major; Kin 315(P), 414(C) & 416(C); or cons instr.**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 320 Biomechanics**

3 cr. Undergraduate.

Application of physical laws and mechanical principles to human movement.

**Prerequisites:** KIN 220(P) and satisfaction of GER Quantitative Literacy Part B; or consent of instructor.**Course Rules:** Not open to students with credit in KIN 520.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 330 Exercise Physiology**

4 cr. Undergraduate.

Study of the physiological responses to exercise and the adaptations to physical training.

**Prerequisites:** KIN 230(P) and satisfaction of GER Quantitative Literacy Part B; or consent of instructor.**Course Rules:** Not open to students with credit in KIN 530, KIN 532, or KIN 536.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 335 Exercise Testing: Assessing Physical Fitness**

3 cr. Undergraduate.

Guidelines and methods for administering, interpreting, and communicating health-related physical fitness assessments for individuals. Combines lecture and discussion with hands-on laboratory experience.

**Prerequisites:** KIN 200(P), KIN 230(P), and valid CPR/AED certification.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 336 Principles of Strength and Conditioning**

3 cr. Undergraduate.

Basic principles necessary to understand the effects of exercise and conditioning on human physiology. Exercise techniques and measures used to assess performance outcome.

**Prerequisites:** KIN 220(325)(P) and KIN 330(P); or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 337 Exercise Prescription: Principles of Exercise Program Design**

3 cr. Undergraduate.

Guidelines and methods for designing, implementing, and evaluating exercise programs for individuals. Combines lecture and discussion with hands-on laboratory experience.

**Prerequisites:** KIN 200(P), KIN 220(P), KIN 230(P), and valid CPR/AED certification.**Last Taught:** Fall 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 350 Psychological Aspects of Sport and Exercise**

3 cr. Undergraduate.

Examines relationships between psychological function and participation in sport and exercise. Topics include motivation, stress, group dynamics, and performance enhancement.

**Prerequisites:** Satisfaction of GER Quantitative Literacy Part B or consent of instructor.**Course Rules:** Not open to students with credit in KIN 550, KIN 551, or KIN 552.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 351 Sociological Aspects of Health and Human Movement**

3 cr. Undergraduate.

Introduction to sociology of physical activity. Examination of diversity and social inequality as they relate to health and physical activity.

**Prerequisites:** satisfaction of GER Quantitative Literacy Part B or consent of instructor.

**Course Rules:** Not open to students with credit in KIN 570.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 360 Motor Development Across the Lifespan**

3 cr. Undergraduate.

Introduction to gross motor behavior development through the lifespan (neo-natal to senior adult). Growth, maturation, environmental influences, and developmental theories.

**Prerequisites:** satisfaction of GER Quantitative Literacy Part B or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 361 Principles of Motor Learning**

3 cr. Undergraduate.

An overview of the principles of motor skill acquisition emphasizing variables related to the learner and the learning environment.

**Prerequisites:** satisfaction of GER Quantitative Literacy Part B or consent of instructor.

**Course Rules:** Not open to students with credit in KIN 561.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 365 Health Aspects of Mind and Body Practices**

3 cr. Undergraduate.

Exploration of the scientific research available on the effectiveness of common mind and body practices and the mechanisms through which these practices affect health.

**Prerequisites:** BMS 260(C) or equiv.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 368 Intervention Strategies in Complementary and Integrative Health Approaches**

3 cr. Undergraduate.

Examination of the efficacy of commonly used strategies and therapies considered to be Complementary and Alternative Medicine.

**Prerequisites:** BMS 260(P) or equiv.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 400 Ethics and Values in the Health and Fitness Professions**

3 cr. Undergraduate.

Exploration of morality and ethics and their importance in the allied health professions.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 400X Ethics and Values in the Health and Fitness Professions**

3 cr. Undergraduate.

Exploration of morality and ethics and their importance in the allied health professions.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 410 Medical Aspects of Illness Management**

3 cr. Undergraduate.

Knowledge and techniques used in identification and management of common medical conditions and illnesses in physically active populations.

**Prerequisites:** admis to Athletic Training major; Kin 316(P), 216(C), & 416(C), or cons instr.

**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 412 Foundations of Injury Prevention & Performance**

3 cr. Undergraduate.

The foundational knowledge, skills, and science that inform injury prevention, rehabilitation, and performance in sport and physical activity.

**Prerequisites:** Admis to athletic training prog; Kin 315(P), 320(P), & 416(C); or cons instr.

**Course Rules:** Counts as repeat of Kin(HMS) 290 w/same topic.

**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 413 Therapeutic Modalities in Athletic Training**

3 cr. Undergraduate.

Introduction to tissue healing, pain control, indications, contraindications, protocols, and the body's responses to various therapeutic modalities.

**Prerequisites:** admis to athletic training major; Kin 314(C), & 416(C); or cons instr.

**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 414 Therapeutic Exercise and Rehabilitation Techniques in Athletic Training**

3 cr. Undergraduate.

Introduction to the theory and practical aspects of therapeutic exercise and rehabilitation techniques used in the care of musculo-skeletal injuries.

**Prerequisites:** admis to athletic training prog; Kin 412(P) & 416(C); or cons instr.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 416 Competencies in Athletic Training**

2 cr. Undergraduate.

Practice, testing, and practical field application of educational competencies and clinical proficiencies in athletic training.

**Prerequisites:** acceptance into student Athletic Training prog.

**Course Rules:** May be retaken to 10 cr max.

**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 430 Exercise Testing for Fitness Assessment and Exercise Prescription**

3 cr. Undergraduate.

Methods for assessing physical fitness in various populations, guidelines for graded exercise testing and exercise prescription. Integrates lecture material with laboratory experience.

**Prerequisites:** Kin 330(P) or cons instr; current CPR/AED cert.**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 440 Innovative Approaches to Health and Wellness Coaching**

3 cr. Undergraduate.

Study of health and wellness coaching theory and practice related to health behavior change.

**Prerequisites:** senior standing or consent of instructor.

**Course Rules:** Counts as repeat of KIN 590 with same topic. KIN 440 was previously KIN 482. KIN 440 and NUTR 440 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 480 Organization and Administration in the Exercise and Fitness Industry**

3 cr. Undergraduate.

Study of the delivery of exercise services in relationship to organization and administration of programs with emphasis on promotions, budget, supervision, equipment and facilities.

**Prerequisites:** admis to Kin major; or Kin minor; or cons instr.**Last Taught:** Fall 2019, Fall 2018, Fall 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 481 Program Development and Evaluation in the Exercise and Fitness Industry**

3 cr. Undergraduate.

Study of systematic program design and evaluation including systems approach, evaluation models, problem solving by objectives, management by objectives and accountability.

**Prerequisites:** Kin 330(P), 350(P), 351(P); or cons instr. Preference is given to students in the Health Promotion track.**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 489 Kinesiology Internship**

1-6 cr. Undergraduate.

Application of kinesiology principles through guided, intensive field experience in exercise, sport, and health settings. Supervised development of professional skills and career exploration.

**Prerequisites:** advanced to Kin major, KIN 200(P), KIN 220(P), KIN 300(P), min GPA 2.0, and proof of CPR/AED.**Course Rules:** May be retaken to max of 6 cr. Not open for cr to students with cr in SPT&REC 489(ER).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2023, Summer 2019, Summer 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 520 Introduction to Biomechanics Research**

3 cr. Undergraduate/Graduate.

Introduction to biomechanics experimental methods and instrumentation. Emphasis on understanding the research literature and research process, from study design to data analysis.

**Prerequisites:** a grade of C or better in KIN 320(P); or graduate standing; or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 520G Introduction to Biomechanics Research**

3 cr. Undergraduate/Graduate.

Introduction to biomechanics experimental methods and instrumentation. Emphasis on understanding the research literature and research process, from study design to data analysis.

**Prerequisites:** a grade of C or better in KIN 320(P); or graduate standing; or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 522 Biomechanics of Athletic Performance**

3 cr. Undergraduate/Graduate.

Exploration of the mechanical factors that affect performance in a variety of athletic activities with a focus on methods to detect and correct faults in technique.

**Prerequisites:** junior standing; grade of C or better in KIN 320(P); or graduate standing; or consent of instructor.**Last Taught:** Fall 2021, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 522G Biomechanics of Athletic Performance**

3 cr. Undergraduate/Graduate.

Exploration of the mechanical factors that affect performance in a variety of athletic activities with a focus on methods to detect and correct faults in technique.

**Prerequisites:** junior standing; grade of C or better in KIN 320(P); or graduate standing; or consent of instructor.**Last Taught:** Fall 2021, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 530 Physiology of Performance**

3 cr. Undergraduate/Graduate.

Advanced study of the physiological responses to exercise and the adaptations to physical training.

**Prerequisites:** junior standing; grade of C or better in KIN 330(P); Kinesiology major or intended major; or graduate standing.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 530G Physiology of Performance**

3 cr. Undergraduate/Graduate.

Advanced study of the physiological responses to exercise and the adaptations to physical training.

**Prerequisites:** junior standing; grade of C or better in KIN 330(P); Kinesiology major or intended major; or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 531 Clinical Exercise Physiology**

3 cr. Undergraduate/Graduate.

Study of the physiological responses to exercise and the adaptations to physical training for those with chronic diseases, conditions and/or physical shortcomings.

**Prerequisites:** junior standing, a grade of C or better in KIN 330(P), and Kinesiology major or intended major; or graduate standing.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 531G Clinical Exercise Physiology**

3 cr. Undergraduate/Graduate.

Study of the physiological responses to exercise and the adaptations to physical training for those with chronic diseases, conditions and/or physical shortcomings.

**Prerequisites:** junior standing, a grade of C or better in KIN 330(P), and Kinesiology major or intended major; or graduate standing.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 532 Electrocardiography Interpretation**

3 cr. Undergraduate/Graduate.

In depth study of the 12 lead EKG and selected cardiovascular medications encountered in preventative and rehabilitative exercise programs.

**Prerequisites:** jr st; grade of C or better in Kin 330(P); 430(R); or grad st or cons instr.

**Course Rules:** Counts as repeat of Kin 590(HMS 590) with similar title.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 532G Electrocardiography Interpretation**

3 cr. Undergraduate/Graduate.

In depth study of the 12 lead EKG and selected cardiovascular medications encountered in preventative and rehabilitative exercise programs.

**Prerequisites:** jr st; grade of C or better in Kin 330(P); 430(R); or grad st or cons instr.

**Course Rules:** Counts as repeat of Kin 590(HMS 590) with similar title.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 533 Physiology of Performance: Testing and Application**

3 cr. Undergraduate/Graduate.

Practical exercise testing knowledge and application of typical performance measures.

**Prerequisites:** junior standing and KIN 335(P); or consent of instructor; or graduate standing.

**Course Rules:** Previously KIN 733.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 533G Physiology of Performance: Testing and Application**

3 cr. Undergraduate/Graduate.

Practical exercise testing knowledge and application of typical performance measures.

**Prerequisites:** junior standing and KIN 335(P); or consent of instructor; or graduate standing.

**Course Rules:** Previously KIN 733.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 534 Physical Activity, Exercise and Health**

3 cr. Undergraduate/Graduate.

The role of physical activity and exercise in the prevention and treatment of various chronic conditions and diseases.

**Prerequisites:** junior standing or greater; or graduate standing.

**Course Rules:** Previously KIN 732.

**Last Taught:** Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 534G Physical Activity, Exercise and Health**

3 cr. Undergraduate/Graduate.

The role of physical activity and exercise in the prevention and treatment of various chronic conditions and diseases.

**Prerequisites:** junior standing or greater; or graduate standing.

**Course Rules:** Previously KIN 732.

**Last Taught:** Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 550 Psychological Aspects of Human Movement**

3 cr. Undergraduate/Graduate.

Study of the relationships between psychological factors and human physical activity. Introduction to research relevant to sport and exercise psychology.

**Prerequisites:** jr st; must have obtained a grade of C or better in Kin 350(P) or cons instr.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 550G Psychological Aspects of Human Movement**

3 cr. Undergraduate/Graduate.

Study of the relationships between psychological factors and human physical activity. Introduction to research relevant to sport and exercise psychology.

**Prerequisites:** jr st; must have obtained a grade of C or better in Kin 350(P) or cons instr.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 555 Exercise Psychology**

3 cr. Undergraduate/Graduate.

Psychological antecedents and consequences of physical activity in relation to mental health and public health.

**Prerequisites:** jr st; Grade C or better in Kin 350(P) or cons instr.

**Course Rules:** Counts as repeat of Kin 590 with same topic.

**Last Taught:** Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 555G Exercise Psychology**

3 cr. Undergraduate/Graduate.

Psychological antecedents and consequences of physical activity in relation to mental health and public health.

**Prerequisites:** jr st; Grade C or better in Kin 350(P) or cons instr.**Course Rules:** Counts as repeat of Kin 590 with same topic.**Last Taught:** Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 556 Multilevel Approaches to Changing Physical Activity and Eating Behaviors**

3 cr. Undergraduate/Graduate.

An introduction to key theoretical and conceptual frameworks for understanding health-related behavior and evidence-based practical approaches for promoting behavior change.

**Prerequisites:** a grade of C or better in KIN 350(P); or graduate standing; or consent of instructor.**Course Rules:** Counts as repeat of KIN 590 with the same topic. KIN 556 and NUTR 556 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 556G Multilevel Approaches to Changing Physical Activity and Eating Behaviors**

3 cr. Undergraduate/Graduate.

An introduction to key theoretical and conceptual frameworks for understanding health-related behavior and evidence-based practical approaches for promoting behavior change.

**Prerequisites:** a grade of C or better in KIN 350(P); or graduate standing; or consent of instructor.**Course Rules:** Counts as repeat of KIN 590 with the same topic. KIN 556 and NUTR 556 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 561 Investigating Motor Behavior in Health, Aging, and Disease**

3 cr. Undergraduate/Graduate.

An introduction to the major theoretical and empirical perspectives used to examine how the nervous system and musculoskeletal system work cooperatively to produce human movement in health, aging, and disease.

**Prerequisites:** junior standing; a grade of C or better in KIN 361(P) or consent of instructor.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 561G Investigating Motor Behavior in Health, Aging, and Disease**

3 cr. Undergraduate/Graduate.

An introduction to the major theoretical and empirical perspectives used to examine how the nervous system and musculoskeletal system work cooperatively to produce human movement in health, aging, and disease.

**Prerequisites:** junior standing; a grade of C or better in KIN 361(P) or consent of instructor.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 570 Sociological Aspects of Physical Activity**

3 cr. Undergraduate/Graduate.

Relationships between sociological factors and human physical activity. Introduction to research relevant to the sociology of sport and other forms of physical activity.

**Prerequisites:** junior standing and a grade of C or better in KIN 351(P); or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 570G Sociological Aspects of Physical Activity**

3 cr. Undergraduate/Graduate.

Relationships between sociological factors and human physical activity. Introduction to research relevant to the sociology of sport and other forms of physical activity.

**Prerequisites:** junior standing and a grade of C or better in KIN 351(P); or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 573 Body Image: Influences and Health-Related Implications**

3 cr. Undergraduate/Graduate.

In-depth examination of the multidimensional body image construct: body image development, assessment, and modification; impact on health and behavior; body image in special populations.

**Prerequisites:** jr st; Psych 101(P).**Course Rules:** Counts as repeat of Kin 590 with same topic.**Last Taught:** Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 573G Body Image: Influences and Health-Related Implications**

3 cr. Undergraduate/Graduate.

In-depth examination of the multidimensional body image construct: body image development, assessment, and modification; impact on health and behavior; body image in special populations.

**Prerequisites:** jr st; Psych 101(P).**Course Rules:** Counts as repeat of Kin 590 with same topic.**Last Taught:** Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**KIN 574 Obesity and Weight Management**

3 cr. Undergraduate/Graduate.

Examination of the epidemiology of obesity, genetic and environmental contributors, body weight regulation, health and psychosocial consequences, and approaches to assessment, prevention, and treatment.

**Prerequisites:** junior standing and a grade of C or better in BMS 232(P) or NUTR 235(P).**Course Rules:** Counts as repeat of KIN 590 with same topic. KIN 574 and NUTR 574 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 574G Obesity and Weight Management**

3 cr. Undergraduate/Graduate.

Examination of the epidemiology of obesity, genetic and environmental contributors, body weight regulation, health and psychosocial consequences, and approaches to assessment, prevention, and treatment.

**Prerequisites:** junior standing and a grade of C or better in BMS 232(P) or NUTR 235(P).

**Course Rules:** Counts as repeat of KIN 590 with same topic. KIN 574 and NUTR 574 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 575 The Social Construction of Obesity**

3 cr. Undergraduate/Graduate.

Examines how obesity is socially constructed and how it shapes conceptions of fitness and physical activity.

**Prerequisites:** jr st; grade of C or better in Kin 351(P); or cons instr.

**Course Rules:** Counts as repeat of HMS 590 with same topic.

**Last Taught:** Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 575G The Social Construction of Obesity**

3 cr. Undergraduate/Graduate.

Examines how obesity is socially constructed and how it shapes conceptions of fitness and physical activity.

**Prerequisites:** jr st; grade of C or better in Kin 351(P); or cons instr.

**Course Rules:** Counts as repeat of HMS 590 with same topic.

**Last Taught:** Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 580 Sports Nutrition**

3 cr. Undergraduate/Graduate.

The integration and application of nutrition and exercise science principles to maximize health, fitness, and sport performance.

**Prerequisites:** junior standing and a grade of C or better in NUTR 235(P) or BMS 232(P).

**Course Rules:** Counts as a repeat of NUTR 550, or BMS 590 or KIN 590 with similar topic. NUTR 580 and KIN 580 are jointly offered; they count as repeats of one another.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 580G Sports Nutrition**

3 cr. Undergraduate/Graduate.

The integration and application of nutrition and exercise science principles to maximize health, fitness, and sport performance.

**Prerequisites:** junior standing and a grade of C or better in NUTR 235(P) or BMS 232(P).

**Course Rules:** Counts as a repeat of NUTR 550, or BMS 590 or KIN 590 with similar topic. NUTR 580 and KIN 580 are jointly offered; they count as repeats of one another.

**Last Taught:** Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 590 Current Topics in Human Kinetics:**

1-3 cr. Undergraduate/Graduate.

The specific topic will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing; consent of instructor for graduate credit.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Summer 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 590G Current Topics in Human Kinetics:**

1-3 cr. Undergraduate/Graduate.

The specific topic will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing; consent of instructor for graduate credit.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Summer 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 642G Professionalism and Ethos of Care**

3 cr. Undergraduate/Graduate.

The ethics of professional practice, fiduciary relationships, rights, duties associated with the patient/therapist relationship, and the role character plays in ethical decision-making.

**Prerequisites:** grad st; good standing in DPT prog

**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 701 Seminar in Human Movement Sciences**

1-3 cr. Graduate.

Research in the Human Movement Sciences subdisciplines including critical review of theories, perspectives and methods. Faculty, student presentations of current work.

**Prerequisites:** grad st

**Course Rules:** Retakable to 3 cr max.

**Last Taught:** Spring 2013, Spring 2012, Fall 2011, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 702 Statistical Analysis in the Health Sciences**

3 cr. Graduate.

Univariate, bivariate, and multivariate analyses as they apply to health science research.

**Prerequisites:** grad st; intro level statistics course at U/G or G level.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 703 Research Methods in Kinesiology**

3 cr. Graduate.

Methods for multi-disciplinary human movement inquiry; problem/statistical design; critique of available literature; preliminary thesis/project design.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 706 Research & Applied Statistics in Physical Therapy**

3 cr. Graduate.

Specific quantitative research designs and statistics with an emphasis on clinical research; methods for critically evaluating research literature.

**Prerequisites:** grad st, admis to DPT program; or cons instr.

**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Summer 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 710 Evidence Based Practice: Levels of Evidence**

1 cr. Graduate.

Strategies for evaluating the evidence underlying physical therapy practice as a framework for creating and evaluating best practice decisions.

**Prerequisites:** grad st, admis to DPT Program; or cons instr.

**Last Taught:** Summer 2009, Summer 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 711 Evidence Based Practice: Interventions**

1 cr. Graduate.

Focus on information access and retrieval from research literature used to inform physical therapy interventions for treatment of movement disorders.

**Prerequisites:** grad st; admis to DPT Program or cons instr.

**Last Taught:** Fall 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 712 Evidence Based Practice: Tests & Measures**

1 cr. Graduate.

Focus on the critical analysis of published clinical research related to physical therapy tests and measures.

**Prerequisites:** grad st; admis to DPT program or cons instr.

**Last Taught:** Spring 2010, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 713 Professional Issues in Physical Therapy**

1 cr. Graduate.

Strategies for growth & adaptation of physical therapy practice in the context of a changing health care environment.

**Prerequisites:** grad st; valid license to practice physical therapy or cons instr

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 714 Evidence for Practice I**

3 cr. Graduate.

Provides clinicians with a rubric for searching & evaluating the published literature supporting physical therapy practice & informing best practice decisions.

**Prerequisites:** grad st; valid license to practice physical therapy or cons instr

**Last Taught:** Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 715 Evidence for Practice II**

3-6 cr. Graduate.

Synthesis of prior coursework in the development and presentation of a clinical practice decision supported with best evidence practices.

**Prerequisites:** grad st; valid license to practice physical therapy.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Summer 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 716 Seminar: The Culture of Evidence**

1 cr. Graduate.

The role of evidence in physical therapy clinical decision making with application to current interventions.

**Prerequisites:** grad st; valid license to practice physical therapy or cons instr

**Last Taught:** Summer 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 717 Pharmacology In Rehabilitation**

2 cr. Graduate.

Pharmacologic agents encountered in physical therapy rehabilitation settings focusing on pharmacodynamics, pharmacokinetics, biotransformation of drugs, and clinical application for relevant drug classifications.

**Prerequisites:** grad st, admis to DPT Program; or cons instr

**Last Taught:** Spring 2013, Spring 2012, Fall 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 720 Advanced Biomechanics Research**

3 cr. Graduate.

Introduction to advanced biomechanics collection techniques. Course focuses on basic programming, data collection/analysis, and presentation skills.

**Prerequisites:** grad st; Kin 520(C); or cons instr

**Course Rules:** Counts as repeat of Kin 590 with same topic.

**Last Taught:** Fall 2021, Fall 2018, Fall 2016, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 721 Muscle Mechanics & Modeling**

3 cr. Graduate.

An in-depth background in muscle mechanics. Basic muscle mechanics, classic research studies, and the development of a computer muscle model to understand force production and movement control through musculoskeletal modeling.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Counts as repeat of KIN 590 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 725 Interdisciplinary Themes in Biomechanics**

3 cr. Graduate.

Emphasis on biomechanical research themes of an interdisciplinary character. Readings drawn from primary research literature.

**Prerequisites:** grad st; Kin 520(P) or cons instr.

**Last Taught:** Fall 2014, Fall 2010, Spring 2006, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 743 Health Systems Review**

2 cr. Graduate.

Provides systems overview of screening procedures necessary to provide a comprehensive physical therapy diagnosis with an emphasis on screening for referral.

**Prerequisites:** grad st; valid license to practice physical therapy or cons instr

**Last Taught:** Spring 2008, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 761 Concepts of Human Motor Control**

3 cr. Graduate.

A systematic examination of neuromotor control mechanisms and critical review of research in human motor behavior focusing on variables limiting or facilitating performance and/or skill acquisition.

**Prerequisites:** grad st, Kin 561(P) or cons instr.

**Last Taught:** Spring 2022, Fall 2019, Fall 2017, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**KIN 762 Research Practicum in Motor Control**

3 cr. Graduate.

Demonstration/participation laboratory focused on human motor control experimental design. Topics include sampling, subject protection, techniques for quantification of motor performance characteristics and neuromuscular correlates.

**Prerequisites:** grad st; Kin 561(P) or cons instr.

**Last Taught:** Spring 2018, Spring 2017, Spring 2008, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 763 Neural Control of Movement**

3 cr. Graduate.

Fundamental concepts and current issues in how the brain and other neurological structures contribute to the control of movement.

**Prerequisites:** grad st, Kin 561(P) or cons instr.

**Last Taught:** Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 764 Neurophysiology of Human Movement**

3 cr. Graduate.

A neurophysiologic perspective on key areas of human motor control.

**Prerequisites:** grad st, Kin 561(P) or cons instr.

**Course Rules:** Counts as repeat of Kin(HMS) 590 with same topic.

**Last Taught:** Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 780 Clinical Teaching**

2 cr. Graduate.

Exploration of patient education intervention focusing on patient adherence in the context of learning theory, adult learning, and learning domains.

**Prerequisites:** grad st, admis to DPT Program; or cons instr.

**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 798 Independent Project**

1-6 cr. Graduate.

Student research in consultation with and supervised by a graduate faculty member.

**Prerequisites:** grad st; cons instr

**Course Rules:** Retakable w/ chg in topic to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 799 Independent Reading**

1-3 cr. Graduate.

Independent study of a topic selected by the student in consultation with the supervising graduate faculty member.

**Prerequisites:** grad st; cons instr.

**Course Rules:** May be repeated with change in topic to max of 6 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 830 Physiological Adaptations to Exercise**

3 cr. Graduate.

Physiological factors related to performing physical activity and exercise on a chronic basis; various environmental influences on physical performance.

**Prerequisites:** grad st; a grade of C or better in Kin 530(P).

**Last Taught:** Fall 2013, Fall 2011, Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 850 Seminar in Psychological Aspects of Physical Activity:**

3 cr. Graduate.

Advanced seminar on selected topics in the psychology of physical activity.

**Prerequisites:** grad st; Kin 550(P) or cons instr.

**Course Rules:** May be repeated with change in topic to max of 6 cr.

**Last Taught:** Spring 2018, Spring 2017, Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 871 Socialization and Physical Activity**

3 cr. Graduate.

Advanced seminar on research relevant to the development/lack of development of physically active lifestyles.

**Prerequisites:** grad st; Kin 870(P) or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Summer 2019, Summer 2018, Spring 2018, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 890 Capstone Project**

1-6 cr. Graduate.

Preparation of a research project under the supervision of the student's major professor.

**Prerequisites:** grad st.

**Course Rules:** Not open to students selecting options A.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 891 Research Seminar**

3 cr. Graduate.

Advanced seminar on the synthesis and critique of research literature within the student's primary and secondary subdisciplines.

**Prerequisites:** grad st; completion of all or conc reg in remaining coursework for degree.

**Course Rules:** Not open to option A or C students.

**Last Taught:** Summer 2013, Summer 2012, Spring 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 895 Research and Thesis**

1-6 cr. Graduate.

Preparation of a thesis under the direction of the student's primary and secondary advisors.

**Prerequisites:** grad st; cons instr

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 909 Guided Teaching Experience in Health Sciences**

3 cr. Graduate.

This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.

**Prerequisites:** graduate standing, one of the following: ATRAIN 900(P), OCCTHPY 900(P), PRPP 900(P), or PT 900(P), and consent of instructor.

**Course Rules:** Satisfactory/Unsatisfactory only. ATRAIN 909, BMS 909, COMSDIS 909, HCA 909, KIN 909, OCCTHPY 909, PT 909, and PRPP 909 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 910 Advanced Seminar in Health Sciences**

1 cr. Graduate.

Faculty, graduate students, and invited guests will present their research and engage in discussion around themes of broad interest, e.g., public health.

**Prerequisites:** grad st

**Course Rules:** Retakable to 4 cr max.

**Last Taught:** Spring 2021, Spring 2019, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 930 Seminar in Exercise Physiology**

1-3 cr. Graduate.

Evaluation of current research and methodology in exercise physiology.

**Prerequisites:** grad st; cons instr

**Course Rules:** Retakable to 9 cr max w/change in topic.

**Last Taught:** Spring 2021, Fall 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 990 Research and Thesis**

1-6 cr. Graduate.

Preparation of a thesis under the direction of the student's primary and secondary advisors.

**Prerequisites:** grad st.

**Course Rules:** May be repeated to max of 6 cr. Not open to students selecting options B or C.

**Last Taught:** Summer 2007, Spring 2007, Fall 2006, Summer 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 991 Doctoral Dissertation**

1-12 cr. Graduate.

Dissertation research

**Prerequisites:** grad st; admit to Ph.D. candidacy

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KIN 999 Advanced Independent Study**

1-6 cr. Graduate.

Independent study on topic selected by student and supervising graduate faculty member.

**Prerequisites:** grad st; cons instr

**Last Taught:** Fall 2022, Summer 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Korean (KOREAN)

**KOREAN 101 First-Semester Korean**

5 cr. Undergraduate.

Beginning Korean for students with no previous knowledge of the language.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 102 Second-Semester Korean**

5 cr. Undergraduate.

Continuation of Korean 101.

**Prerequisites:** Korean 101(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 192 First-Year Seminar**

3 cr. Undergraduate.

Specific humanities topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 199 Independent Study**

1-3 cr. Undergraduate.

Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 201 Third Semester Korean**

5 cr. Undergraduate.

Continuation of Korean 102.

**Prerequisites:** Korean 102(NP) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 202 Fourth Semester Korean**

5 cr. Undergraduate.

Continuation of Korean 201.

**Prerequisites:** Korean 201(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (12 retro cr).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 221 Korean Culture and Society**

3 cr. Undergraduate.

Exploration of Korean history, language, religion, and social values through literature, film, and discussion.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of FLL 216 w/same topic.

**General Education Requirements:** HU

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 289 Internship in Korean, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Korean in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** 2.50 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc regin UROP seminar.

**Course Rules:** One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 301 Fifth Semester Korean**

3 cr. Undergraduate.

First half of a third year course designed for those who have successfully completed Korean language study up through the 200-level.

**Prerequisites:** KOREAN 202(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 302 Sixth Semester Korean**

3 cr. Undergraduate.

Sixth semester course of the Korean language sequence. Korean language skills in speaking, writing, listening, and reading at the intermediate/advanced level.

**Prerequisites:** KOREAN 301(P).

**Course Rules:** Generates L&S credit for demonstrated equivalent preparation (16 retro cr).

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 325 Korean Contemporary Culture and the Korean Wave**

3 cr. Undergraduate.

Korean contemporary culture, including diverse Korean media products such as cinema, drama, and music, focusing on contemporary Korean media contents referred to 'Hallyu (the Korean Wave)'.

**Prerequisites:** junior standing or greater and completion of OWC-A.

**General Education Requirements:** OWCB

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 489 Internship in Korean, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles of Korean in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.50 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2018, Spring 2017, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**KOREAN 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of a Korean faculty or academic staff member.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2022, Fall 2021, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Latin (LATIN)

**LATIN 103 First Semester Latin**

4 cr. Undergraduate.

A systematic introduction to the morphology, syntax, and vocabulary of Latin.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATIN 104 Second Semester Latin**

4 cr. Undergraduate.

Continuation of Latin 103: systematic introduction to the morphology, syntax, and vocabulary of Latin.

**Prerequisites:** Latin 103(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (4 retro crs).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LATIN 150 Intensive Latin**

4 cr. Undergraduate.

Rapid introduction to Latin for students in fields other than classics who require a knowledge of Latin for continued work in their fields. Readings concentrate on medieval Latin.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LATIN 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Summer 2020, Fall 2008, Summer 2008, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LATIN 205 Third Semester Latin**

4 cr. Undergraduate.

Continuation of Latin 104: systematic introduction to the morphology, syntax, and vocabulary of Latin.

**Prerequisites:** Latin 104(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (8 retro crs).**Course Rules:** Counts as repeat of Latin 201.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LATIN 289 Internship in Latin, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Latin in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Latin; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LATIN 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one additional semester.

**Prerequisites:** none; additional prerequisites may be assigned to specific topic.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LATIN 306 Readings in Latin Literature:**

3 cr. Undergraduate.

Reading of texts of Latin literature with emphasis on morphology, syntax, vocabulary; a transition to 500 level courses.

**Prerequisites:** LATIN 205(P) or equivalent HS prep as determined by placement test. Generates L&S credit for demonstrated equivalent preparation (12 retro crs).**Course Rules:** Counts as repeat of 2 cr of LATIN 203 & 1 cr of LATIN 310. May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LATIN 489 Internship in Latin, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of Latin in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Latin; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Last Taught:** Spring 2005, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LATIN 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2010, Spring 2001, Fall 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LATIN 501 Readings in Latin Prose:**

3 cr. Undergraduate/Graduate.

Extensive reading in a major author or related major authors; e.g., Cicero, Caesar, the historians, Seneca, Pliny the Younger.

**Prerequisites:** junior standing and LATIN 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2021, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LATIN 501G Readings in Latin Prose:**

3 cr. Undergraduate/Graduate.

Extensive reading in a major author or related major authors; e.g., Cicero, Caesar, the historians, Seneca, Pliny the Younger.

**Prerequisites:** junior standing and LATIN 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2021, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATIN 502 Readings in Latin Poetry:**

3 cr. Undergraduate/Graduate.

Extensive reading in a major or related major authors, e.g., the comic dramatists, the lyric poets, the elegists, the satirists, the writers of epic.

**Prerequisites:** jr st; Latin 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs)..

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATIN 502G Readings in Latin Poetry:**

3 cr. Undergraduate/Graduate.

Extensive reading in a major or related major authors, e.g., the comic dramatists, the lyric poets, the elegists, the satirists, the writers of epic.

**Prerequisites:** jr st; Latin 306(P) or equiv; equiv H.S. prep determined by placement test. Generates L&S credit for demonstrated equivalent preparation (16 retro crs)..

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATIN 508 Latin Prose Composition**

3 cr. Undergraduate/Graduate.

Survey of Latin syntax and idioms, with appropriate exercises in prose composition. Required of Latin majors.

**Prerequisites:** Latin 310(P) or equiv prep as judged by instr.

**Last Taught:** Spring 2007, Spring 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATIN 508G Latin Prose Composition**

3 cr. Undergraduate/Graduate.

Survey of Latin syntax and idioms, with appropriate exercises in prose composition. Required of Latin majors.

**Prerequisites:** Latin 310(P) or equiv prep as judged by instr.

**Last Taught:** Spring 2007, Spring 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATIN 699 Directed Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a Classics faculty or instructional academic staff member. Students must submit a study proposal. For more information, consent of instructor, department chair, and Assistant Dean for Student Academic

**Last Taught:** Fall 2023, Fall 2022, Fall 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Latin American and Caribbean Studies (LACS)

**LACS 101 Introduction to Latin American and Caribbean Studies**

3 cr. Undergraduate.

Lectures and discussion of a range of topics relating to Latin America and the Caribbean that lead to an understanding of the cultures of these areas.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 193 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 199 Independent Study:**

1-3 cr. Undergraduate.

Independent work under supervision of faculty or academic staff member. For further information, consult the program director.

**Prerequisites:** 2.0 GPA, consent of instructor, program director, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 201 Special Topics in Latin American and Caribbean Studies:**

3 cr. Undergraduate.

Topics concerning Latin America and/or the Caribbean, with little or no focus on their diasporas.

**Prerequisites:** none.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 289 Internship in Latin American/Caribbean Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of history in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** 2.50 gpa, cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combinations of UROP apprenticeship courses.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only progr dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 301 Advanced Topics in Latin American and Caribbean Studies:**

3 cr. Undergraduate.

Advanced-level topics concerning Latin America and/or the Caribbean, with little or no focus on their diasporas.

**Prerequisites:** jr st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 326 Brazilian Politics and Society**

3 cr. Undergraduate.

Puzzles and complexities of governing Brazil in 20th and 21st centuries. Historical and institutional foundations of the Brazilian state; current political, economic, and social environment.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course. LACS 326 & Pol Sci 326 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 489 Internship in Latin American/Caribbean Studies, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles of Latin American/Caribbean studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.50 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Last Taught:** Spring 2017, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 496 Advanced UROP Apprenticeship**

1-3 cr. Undergraduate.

Advanced undergraduate research participation in a project developed with a supervising member of the faculty of staff.

**Prerequisites:** acceptance to UROP; prior UROP apprenticeship or equiv rsrch experience.

**Course Rules:** One cr for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** Retakable with change in topic.

**Last Taught:** Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** Retakable with change in topic.

**Last Taught:** Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only progr dir & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of a Latin American/Caribbean studies faculty or academic staff member.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, program director, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable with change in topic to 9 cr max in any combination of LACS/Latino 698, LACS 699, and Latino 699.

**Last Taught:** Fall 2021, Spring 2021, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACS 789 Graduate Internship in Latin American and Caribbean Studies**

1-3 cr. Graduate.

Application of basic principles of Latin American/Caribbean Studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Latin American, Caribbean, and U.S. Latinx Studies (LACUSL)

**LACUSL 199 Independent Study**

1-3 cr. Undergraduate.

Independent work under supervision of faculty or academic staff member. For further information, consult the program coordinator.

**Prerequisites:** 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 200 Special Topics in Latin American, Caribbean, and U.S. Latinx Studies:**

3 cr. Undergraduate.

Various topics that integrate the experiences of Latin American, Caribbean, and U.S. Latinx populations, environments, and/or cultures.

**Prerequisites:** none.

**Course Rules:** Retakable with change in topic to 9 cr max. Counts as repeat of LACS 200/LATINO 200 with same topic.

**Last Taught:** Fall 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 201 Latin American, Caribbean, and U.S. Latinx Arts and Culture:**

3 cr. Undergraduate.

Approaches to the art, literature, and other cultural productions of Latin America, the Caribbean, and the Latinx U.S.

**Prerequisites:** none.

**Course Rules:** Retakable with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 289 Internship-Latin American, Caribbean, & U.S. Latinx Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Latin American, Caribbean, and U.S. Latinx studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** 2.50 GPA and consent of supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Last Taught:** Summer 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. Retakable w/ chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 300 Advanced Topics in Latin American, Caribbean, and U.S. Latinx Studies:**

3 cr. Undergraduate.

Advanced study of topics that integrate the experiences of U.S. Latinx populations with their countries of origin.

**Prerequisites:** junior standing.

**Course Rules:** Retakable with change in topic to 9 cr max. Counts as repeat of LACS 200/LATINO 300 with same topic.

**Last Taught:** Spring 2016, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 324 Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre**

3 cr. Undergraduate.

Survey of Latin American, Caribbean, and U.S. Latinx theatre and performance. History and cultures of the Americas that shape these productions.

**Prerequisites:** junior standing.

**Course Rules:** Counts as repeat of LACS 324 or LATINO 324. LACUSL 324 and THEATRE 324 are jointly offered and count as repeats of one another.

**General Education Requirements:** A, CD

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 489 Internship in Latin American, Caribbean, and US Latinx Studies, Upper Level**

1-6 cr. Undergraduate.

Application of basic principles of Latin American, Caribbean, and U.S. Latinx studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** junior standing; 2.50 GPA; and written consent of supervising professor.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Last Taught:** Fall 2022, Spring 2020, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 496 UROP Apprenticeship, Upper Level**

1-3 cr. Undergraduate.

Advanced-level undergraduate research in a project developed with a supervising member of the faculty or academic staff. One credit for 45 hours research.

**Prerequisites:** jr st; acceptance to UROP; prior on conc reg in UROP seminar.

**Course Rules:** Retakable to 9 cr max in any combination of UROP apprenticeship courses.

**Last Taught:** Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UW-sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only prog coord & assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 680 LACUSL Senior Research Project**

3 cr. Undergraduate.

Independent capstone project for the LACUSL major, integrating Latinx and Latin American/Caribbean perspectives on a topic selected by the student in consultation with their faculty mentor.

**Prerequisites:** senior standing and declared LACUSL major.

**Last Taught:** Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LACUSL 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced independent work under supervision of faculty or academic staff member. For further information, consult the program coordinator.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, program coordinator, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Fall 2023, Fall 2019, Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Latinx Studies (LATINX)

**LATINX 101 Introduction to Latino Studies**

3 cr. Undergraduate.

Analyses of the historical and structural forces which have shaped the experience of Latinos in the U.S., including the relationship between Latinos and social institutions.

**Prerequisites:** none.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 199 Independent Study**

1-3 cr. Undergraduate.

Independent study under supervision of faculty or academic staff member. For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Summer 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 201 Special Topics in U.S. Latino Studies:**

3 cr. Undergraduate.

Interdisciplinary topics central to U.S. Latino studies.

**Prerequisites:** none.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 267 The History of Latinos in the United States**

3 cr. Undergraduate.

History and culture of Latinos in the United States from the colonial period to the present; emphasis on Mexican American, Puerto Rican, and Cuban experiences.

**Prerequisites:** none.

**Course Rules:** Hist 267 & Latino 267 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, HU

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 279 Introduction to U.S. Latino/a Literature:**

3 cr. Undergraduate.

Latino/a American literature with a focus on region, genre, theme, or period.

**Prerequisites:** grade of C or better in English 102(P) or score at level 4 on EPT.

**Course Rules:** Retakable w/chg in topic to 9 cr max. English 279 & Latino 279 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 289 Internship in Latino Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Latino Studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** 2.50 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Last Taught:** Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**LATINX 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 301 Advanced Topics in U.S. Latino Studies:**

3 cr. Undergraduate.

Advanced-level interdisciplinary topics central to U.S. Latino studies.

**Prerequisites:** jr st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 323 Perspectives on Latino Communities**

3 cr. Undergraduate.

Sociological analysis of the experiences of Latinos. Examination of immigration and mode of incorporation from theoretical perspectives.

Emphasis on Chicanos, Cubans, and Puerto Ricans.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Course Rules:** LATINX 323 and SOCIOL 323 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 374 Survey of U.S. Latino/a Literature**

3 cr. Undergraduate.

A general, representative study of U.S. Latino/a literature.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req.

**Course Rules:** English 374 & Latino 374 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 388 Latino Politics**

3 cr. Undergraduate.

Contemporary Latino politics in the U.S.; demographic analysis; interplay between political incorporation and political institutional responses;

Chicano movement, immigration policies, public opinion, voting behavior, representation.

**Prerequisites:** jr st.

**Course Rules:** Latino 388 & Pol Sci 388 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 489 Internship in Latino Studies, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles of Latino Studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.50 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 523 Studies in U.S. Latino/a Literature:**

3 cr. Undergraduate.

Critical study of themes, figures, aspects, trends, etc. in U.S. Latino/a Literature.

**Prerequisites:** Retakable w/chg in topic to 9 cr max. English 523 & Latino 523 are jointly offered; they count as repeats of one another. Prerq: jr st; satisfaction of GER English Composition competency req.

**General Education Requirements:** CD

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LATINX 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of a Latino Studies faculty or academic staff member.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Associate Dean for Student Academic Services.

**Course Rules:** Retakable w/chg in topic to 9 cr max in any combination of LACS/Latino 698, LACS 699, and Latino 699.

**Last Taught:** Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Lesbian, Gay, Bisexual & Transgender Studies (LGBT)

**LGBT 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific humanities topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LGBT 193 First-Year Seminar:**

3 cr. Undergraduate.

Specific social science topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** SS**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 199 Independent Study**

1-3 cr. Undergraduate.

Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** Retakable to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 200 Introduction to Lesbian, Gay, Bisexual, and Transgender Studies**

3 cr. Undergraduate.

Explores ideas about sexual identity and community through theory, literature, film, photography, music, and popular culture.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 275 Queer Migrations**

3 cr. Undergraduate.

How gender, race, and sexuality shape the migration processes; how concerns about sexuality shape U.S. immigration and citizenship policy; how mass migrations transform diverse queer communities.

**Prerequisites:** none.**Course Rules:** No cr for students w/cr in Ethnic 250 w/similar topic.

Ethnic 275 &amp; LGBT 275 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, HU**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 289 Internship in LGBT Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of LGBT studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** 2.50 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.**Last Taught:** Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 290 Topics in LGBT Studies:**

3 cr. Undergraduate.

Selected LGBT topics and issues. Specific topics and add'l prereqs announced in Schedule of Classes each time course is offered.

**Prerequisites:** none.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2021, Spring 2020, Spring 2016, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.**Course Rules:** Not open to jrs & srs.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 489 Internship in LGBT Studies, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles of LGBT studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st: 2.50 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.**Last Taught:** Summer 2015, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LGBT 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** Retakable w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LGBT 599 Selected Topics in LGBT Studies:**

3 cr. Undergraduate.

Focus on a particular LGBT topic and/or issue.

**Prerequisites:** junior standing; LGBT 200(P) or consent of instructor.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LGBT 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of a LGBT studies faculty or academic staff member.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2022, Summer 2020, Spring 2020, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Letters and Science-Humanities (L&S HUM)

**L&S HUM 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2014, Fall 2012, Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S HUM 289 Internship in Humanities, Lower Division:**

1-6 cr. Undergraduate.

Application of basic principles of humanities in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in humanities; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S HUM 293 Sophomore Scholars Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** soph st.

**Course Rules:** Open only to soph. Retakable w/chg in topic to 6 cr max.

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S HUM 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.

**Last Taught:** Fall 2019, Fall 2017, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S HUM 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Fall 2022, Spring 2022, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S HUM 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Spring 1990, Spring 1989, Fall 1987, Fall 1986.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S HUM 489 Internship in Humanities, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of humanities in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in humanities; 2.25 gpa; cons supervising faculty.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S HUM 496 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** jr st; acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.

**Last Taught:** Spring 2022, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S HUM 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S HUM 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Fall 2013, Summer 1987.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S HUM 701 Topics in the Humanities:**

1-3 cr. Graduate.

Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st; cons instr**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Summer 1995, Spring 1995, Fall 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S HUM 800 Newberry Library Renaissance Seminar:**

1-3 cr. Graduate.

Graduate seminars at the Newberry Library on such topics as philology, paleography, and archival sciences. Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** grad st; cons major adviser & chair of Renaissance Advisory Comm**Course Rules:** Retakable w/topic chg to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Letters and Science-Natural Science (L&S NS)

**L&S NS 111 Introduction to the Practice of Pharmacy**

1 cr. Undergraduate.

Overview of pharmacy, including historical perspectives. Specialization options, current issues and future trends; service learning component.

**Prerequisites:** cons L&S pre-health professions advisor.**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S NS 120 STEM CELL Success and Career Seminar**

1 cr. Undergraduate.

Strategies and practices to promote college success in STEM disciplines Retakeable for cr to 4 cr max.

**Prerequisites:** none.**Last Taught:** Spring 2019, Fall 2018, Spring 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S NS 289 Internship in Natural Sciences, Lower Division:**

1-6 cr. Undergraduate.

Application of basic principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in natural sciences; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max.**Last Taught:** Spring 2016, Spring 2015, Fall 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S NS 295 Seminar in the Natural Sciences:**

1-3 cr. Undergraduate.

Seminar on various topics in the natural sciences. Topic and prerequisites (if any) announced in Schedule of Classes each time course is offered.

**Prerequisites:** none.**Course Rules:** Retakable w/chg in topic to 6 cr max.**General Education Requirements:** NS**Last Taught:** Fall 2011, Fall 2009, UWinterIM 2008, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S NS 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.**Last Taught:** Spring 2017, Fall 2016, Fall 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S NS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** acceptance for Study Abroad Program.**Course Rules:** Retakable with change in topic.**Last Taught:** Fall 2023, Fall 2019, Spring 2018, UWinterIM 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S NS 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Fall 2000, Spring 1998.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S NS 489 Internship in Natural Sciences, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of natural sciences in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in natural sciences; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S NS 496 UROP Apprenticeship, Upper Level**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.

**Prerequisites:** jr st; acceptance to UROP; prior or conc reg in UROP seminar.**Course Rules:** Retakable to 9 cr max in any combination of UROP Apprenticeship courses.**Last Taught:** Spring 2019, Fall 2017, Spring 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S NS 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Last Taught:** UWinterIM 2024, UWinterIM 2023, UWinterIM 2020, UWinterIM 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S NS 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Letters and Science-Social Sciences (L&S SS)

**L&S SS 100 Experiential Learning**

1-3 cr. Undergraduate.

Provides reflection, journaling, and other practices designed to make experiential learning activities more meaningful and impactful.

**Prerequisites:** none.

**Course Rules:** May be retaken twice, for a max of 6 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S SS 193 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S SS 268 Practicum in Mock Trial I**

1-3 cr. Undergraduate.

Introduction to the issues, concepts, and practice of mock trial.

**Prerequisites:** none.

**Course Rules:** Retakable to 6 cr max. Students may not earn more than a total of 9 cr in Pol Sci/L&S SS 268/468 combined.

**Last Taught:** Fall 2019, Spring 2019, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S SS 289 Internship in Social Sciences, Lower Division:**

1-6 cr. Undergraduate.

Application of basic principles of social sciences in a business, organizational, educational, political, or other appropriate settings.

**Prerequisites:** intro course in social sciences; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs work in internship. Retakable to 6 cr max.

**Last Taught:** Spring 2018, Fall 2017, Summer 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S SS 291 UROP Seminar**

1 cr. Undergraduate.

Discussion of the methodology and intellectual underpinnings of academic research. Required of all UROP participants.

**Prerequisites:** acceptance to UROP; conc reg in UROP apprenticeship.

**Course Rules:** Retakable to max 4 cr in any combination of L&S SS 291, 294, & 295.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S SS 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. Retakable to 9 cr max in any combination of UROP apprenticeship courses.

**Last Taught:** Fall 2018, Spring 2018, Fall 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S SS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** Retakable with change in topic.

**Last Taught:** Fall 2023, Summer 2022, Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S SS 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires department and associate dean approval. In exceptional circumstances, can be offered in one additional semester.

**Prerequisites:** none; additional prerequisites may be assigned to specific topic.

**Course Rules:** Retakable with change in topic.

**Last Taught:** Fall 2023, Spring 1997, Fall 1996, Spring 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S SS 468 Practicum in Mock Trial II**

1-3 cr. Undergraduate.

Continuation of the study of the issues, concepts, and practice of mock trial.

**Prerequisites:** jr st; Commun/Pol Sci 268(P); satisfaction of GER English Composition competency req.

**Course Rules:** Retakable to 6 cr max. Students may not earn more than a total of 9 cr in Pol Sci/L&S SS 268/468 combined.

**Last Taught:** Fall 2019, Spring 2019, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S SS 489 Internship in Social Sciences, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of social sciences in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in social sciences; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. Retakable to 6 cr max.

**Last Taught:** Spring 2019, Fall 2014, Summer 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**L&S SS 496 UROP Apprenticeship, Upper-Level**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hrs research.

**Prerequisites:** jr st; acceptance to UROP; prior or conc reg in UROP seminar.**Course Rules:** Retakable to 9 cr max in any combination of UROP Apprenticeship courses.**Last Taught:** Spring 2023, Spring 2020, Fall 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S SS 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Spring 2020, Spring 2018, Spring 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S SS 498 Washington Internship**

9 cr. Undergraduate.

Thirty-six hours of work per week in approved internships in Washington, D.C. supervised by the Washington Center for Learning Alternatives. Weekly seminar attendance.

**Prerequisites:** jr st, nomination by Washington Intern Committee, & conc reg in appropriate 699 or other independent study course.**Course Rules:** Cr/no cr only.**Last Taught:** Summer 2014, Spring 2013, Fall 2011, Summer 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**L&S SS 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** Retakable w/chg in topic.**Last Taught:** Fall 1997, Spring 1997, Fall 1996.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Linguistics (LINGUIS)

**LINGUIS 100 The Diversity of Human Language**

3 cr. Undergraduate.

Survey course on the nature and diversity of human language. Topics include language and society, dialects, language and culture, language acquisition, and language typology.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 199 Independent Study**

1-3 cr. Undergraduate.

**Prerequisites:** 2.0 GPA, consent of instructors, and either Linguis 100 or any Linguis course 200 or above.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2007, Spring 2006, Fall 2005, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 210 Power of Words**

3 cr. Undergraduate.

Dynamic role of language in interpersonal relations, social attitudes and behavior. Topics include: patterns of culture and language, language as identification; prejudice, politics, and advertisement.

**Prerequisites:** none.**General Education Requirements:** CD, HU**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 211 Origins of Words**

3 cr. Undergraduate.

Vocabulary of English from historical origins to the present; how words and word patterns change over time under influences of both internal and external forces.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Fall 2012, Spring 2011, Spring 2007, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 212 Language and Gender**

3 cr. Undergraduate.

How patterns of speaking reflect, perpetuate, and create our experience of gender; how gender interacts with race, class, socioeconomic status, age, occupational and social roles.

**Prerequisites:** none.**Course Rules:** Counts as a repeat of Linguis 200 with same topic.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 289 Internship in Linguistics, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of linguistics in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Linguis; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/topic chg.**Last Taught:** Fall 2019, Spring 2019, Fall 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 303 Fifth Semester of an Uncommonly Taught Language:**

3-4 cr. Undergraduate.

Continuation of FLL/Linguis 204(Linguis 232). Number of credits earned by student is determined by the credit value assigned to section number.

**Prerequisites:** FLL/Linguis 204(Linguis 232)(P) in same language.**Course Rules:** May be retaken w/chg in language. FLL 303 & Linguis 303 are jointly offered; w/same topic, they count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 304 Sixth Semester of an Uncommonly Taught Language:**

3 cr. Undergraduate.

Continuation of AMLLC 303 and LINGUIS 303. Number of credits earned by student is determined by the credit value assigned to section number.

**Prerequisites:** AMLLC 303(P) or LINGUIS 303(P) in the same language.

**Course Rules:** Previously FLL 304. May be retaken with change in language. AMLLC 304 and LINGUIS 304 are jointly offered; with the same topic, they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 350 Introduction to Linguistics**

3 cr. Undergraduate.

Introduction to basic linguistic principles and concepts. Elementary analysis of sentence patterns, sound systems and language change.

**Prerequisites:** jr st or a linguistics course.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 398 Topics in Linguistics:**

1-6 cr. Undergraduate/Graduate.

Topics in any of several recognized areas of linguistics.

**Prerequisites:** jr st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2016, Summer 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 398G Topics in Linguistics:**

1-6 cr. Undergraduate/Graduate.

Topics in any of several recognized areas of linguistics.

**Prerequisites:** jr st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2016, Summer 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 400 Introduction to English Linguistics**

3 cr. Undergraduate/Graduate.

Application of linguistic theory and techniques to modern English. Course is required of all English majors and minors in the College of Community Engagement & Professions' School of Education.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Course Rules:** ENGLISH 400 and LINGUIS 400 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2021, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 400G Introduction to English Linguistics**

3 cr. Undergraduate/Graduate.

Application of linguistic theory and techniques to modern English. Course is required of all English majors and minors in the College of Community Engagement & Professions' School of Education.

**Prerequisites:** junior standing and satisfaction of GER English Composition competency requirement.

**Course Rules:** ENGLISH 400 and LINGUIS 400 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2021, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 406 Advanced English Grammar**

3 cr. Undergraduate/Graduate.

Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 403(P).

**Course Rules:** English 406 & Linguistics 406 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 406G Advanced English Grammar**

3 cr. Undergraduate/Graduate.

Continuation of English 403 with emphasis on the analysis of complex sentences and discourse syntax.

**Prerequisites:** jr st; satisfaction of GER English Composition competency req; English 403(P).

**Course Rules:** English 406 & Linguistics 406 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 415 First Language Acquisition**

3 cr. Undergraduate/Graduate.

Examination of research on what individuals know about their first language at different ages and the kinds of theories offered to explain these data.

**Prerequisites:** jr st & Linguistics 350(P); or grad st & cons instr.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 415G First Language Acquisition**

3 cr. Undergraduate/Graduate.

Examination of research on what individuals know about their first language at different ages and the kinds of theories offered to explain these data.

**Prerequisites:** jr st & Linguistics 350(P); or grad st & cons instr.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 420 Introduction to Second Language Acquisition**

3 cr. Undergraduate/Graduate.

Principles and methods of describing and comparing the structure of two or more languages with emphasis on the implications of this comparison for language learning.

**Prerequisites:** jr st; Linguistics 350(P) or equiv.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 420G Introduction to Second Language Acquisition**

3 cr. Undergraduate/Graduate.

Principles and methods of describing and comparing the structure of two or more languages with emphasis on the implications of this comparison for language learning.

**Prerequisites:** jr st; Linguistics 350(P) or equiv.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 430 Language and Society**

3 cr. Undergraduate/Graduate.

The influence of society on language and of language on society. Language as social interaction, speech styles, social dialects; effects on language change.

**Prerequisites:** jr st & LINGUIS 350(P).**General Education Requirements:** SS**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 430G Language and Society**

3 cr. Undergraduate/Graduate.

The influence of society on language and of language on society. Language as social interaction, speech styles, social dialects; effects on language change.

**Prerequisites:** jr st & LINGUIS 350(P).**General Education Requirements:** SS**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 432 Urban Dialects**

3 cr. Undergraduate/Graduate.

Study of language variation in urban areas. Structure of black English vernacular and its relation to other dialects. Social and educational implications of dialect variation.

**Prerequisites:** jr st & LINGUIS 100 or 350.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 432G Urban Dialects**

3 cr. Undergraduate/Graduate.

Study of language variation in urban areas. Structure of black English vernacular and its relation to other dialects. Social and educational implications of dialect variation.

**Prerequisites:** jr st & LINGUIS 100 or 350.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 440 Psycholinguistics**

3 cr. Undergraduate/Graduate.

A survey of the history, goals, methods, and findings of psycholinguistics. Principal topics: phonetic perception, speech production, syntactic processing, linguistic memory, meaning, and language acquisition.

**Prerequisites:** jr st; LINGUIS 350(R) or PSYCH 101(R); or grad st & cons instr.**General Education Requirements:** SS**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 440G Psycholinguistics**

3 cr. Undergraduate/Graduate.

A survey of the history, goals, methods, and findings of psycholinguistics. Principal topics: phonetic perception, speech production, syntactic processing, linguistic memory, meaning, and language acquisition.

**Prerequisites:** jr st; LINGUIS 350(R) or PSYCH 101(R); or grad st & cons instr.**General Education Requirements:** SS**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 441 Introduction to TESOL Methods**

3 cr. Undergraduate.

Overview of the various approaches to teaching English as a second language (TESOL) to adult/university-level learners.

**Prerequisites:** junior standing or consent of instructor.**Course Rules:** Previously LINGUIS 565.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 450 Introduction to Phonetics**

3 cr. Undergraduate.

Introduction to phonetics, the basics of speech production and speech acoustics.

**Prerequisites:** junior standing.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 455 Semantics**

3 cr. Undergraduate.

The study of meaning in language; its role in grammatical description. Basic concepts used in semantic analysis and discussion of their place in grammatical theory.

**Prerequisites:** jr st & LINGUIS 350(P) or PHILOS 211(P), cons instr.**Course Rules:** Previously LINGUIS 466.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 461 Introduction to Phonology**

3 cr. Undergraduate.

Basic properties of sounds, sound patterns, and sound processes of spoken language.

**Prerequisites:** jr st & LINGUIS 350(P); or cons instr.**Course Rules:** Previously LINGUIS 460.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 464 Introduction to Syntax**

3 cr. Undergraduate/Graduate.

Study of word and sentence formation in languages. Practice in analysis and argumentation using data from various languages.

**Prerequisites:** jr st & LINGUIS 350(P); or grad st & cons instr.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 464G Introduction to Syntax**

3 cr. Undergraduate/Graduate.

Study of word and sentence formation in languages. Practice in analysis and argumentation using data from various languages.

**Prerequisites:** jr st & LINGUIS 350(P); or grad st & cons instr.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 468 Language in its Various Forms:**

3 cr. Undergraduate/Graduate.

Analysis and description of various language types. Topics may include language change, language development, dialectology, and language typology.

**Prerequisites:** junior standing and LINGUIS 350(P); or graduate standing; or consent of instructor.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**LINGUIS 468G Language in its Various Forms:**

3 cr. Undergraduate/Graduate.

Analysis and description of various language types. Topics may include language change, language development, dialectology, and language typology.

**Prerequisites:** junior standing and LINGUIS 350(P); or graduate standing; or consent of instructor.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 470 Historical/Comparative Linguistics**

3 cr. Undergraduate/Graduate.

The study of language change; introduction to internal reconstruction and the comparative method; generative approaches to historical change.

**Prerequisites:** jr st & Linguis 350(P); or grad st & cons instr.

**Last Taught:** Fall 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 470G Historical/Comparative Linguistics**

3 cr. Undergraduate/Graduate.

The study of language change; introduction to internal reconstruction and the comparative method; generative approaches to historical change.

**Prerequisites:** jr st & Linguis 350(P); or grad st & cons instr.

**Last Taught:** Fall 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 474 Language Typology and Language Universals**

3 cr. Undergraduate/Graduate.

Comparison of phonetic, syntactic, and lexical patterns of different languages, with emphasis on deriving statements about properties of all languages or of significant subclasses of languages.

**Prerequisites:** jr st & Linguis 350(P); or grad st & cons instr.

**Last Taught:** Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 474G Language Typology and Language Universals**

3 cr. Undergraduate/Graduate.

Comparison of phonetic, syntactic, and lexical patterns of different languages, with emphasis on deriving statements about properties of all languages or of significant subclasses of languages.

**Prerequisites:** jr st & Linguis 350(P); or grad st & cons instr.

**Last Taught:** Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 476 Linguistic Theory**

3 cr. Undergraduate/Graduate.

Survey of twentieth century American linguistic theories from traditionalism through American structuralism to generative grammar, including discussion of some current issues.

**Prerequisites:** jr st & Linguis 350(P); or grad st & cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 476G Linguistic Theory**

3 cr. Undergraduate/Graduate.

Survey of twentieth century American linguistic theories from traditionalism through American structuralism to generative grammar, including discussion of some current issues.

**Prerequisites:** jr st & Linguis 350(P); or grad st & cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 489 Internship in Linguistics, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of linguistics in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in linguistics; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2010, Fall 2005, Spring 2005, Spring 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 490 Field Methods**

3 cr. Undergraduate/Graduate.

Work with a native speaker of a foreign language. Gathering and collation of data. Evaluation of possible phonemic and grammatical analyses.

**Prerequisites:** jr st & Linguis 350(P); or grad st & cons instr.

**Last Taught:** Fall 2014, Fall 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 490G Field Methods**

3 cr. Undergraduate/Graduate.

Work with a native speaker of a foreign language. Gathering and collation of data. Evaluation of possible phonemic and grammatical analyses.

**Prerequisites:** jr st & Linguis 350(P); or grad st & cons instr.

**Last Taught:** Fall 2014, Fall 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 510 Methodologies in English Language Teaching**

3 cr. Undergraduate.

Students develop comprehensive understanding of sound methodological approaches that can be used in teaching of reading, writing, grammar, and listening/speaking to ESL/EFL learners.

**Prerequisites:** junior standing or above and LINGUIS 441(P) (previously LINGUIS 565).

**Course Rules:** Previously LINGUIS 410.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 520 Advanced Second Language Acquisition:**

3 cr. Undergraduate/Graduate.

Readings, discussions, and analyses of current issues in second-language acquisition theory.

**Prerequisites:** jr st; Linguis 420(P) or equiv.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 520G Advanced Second Language Acquisition:**

3 cr. Undergraduate/Graduate.

Readings, discussions, and analyses of current issues in second-language acquisition theory.

**Prerequisites:** jr st; Linguis 420(P) or equiv.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 550 Advanced Phonetics**

3 cr. Undergraduate.

Auditory phonetics; issues in speech production and speech acoustics; quantitative study of speech sounds in linguistic contexts; independent experimental research on topic selected by student.

**Prerequisites:** junior standing and LINGUIS 450(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 555 Advanced Semantics**

3 cr. Undergraduate.

Readings, discussion, and analysis of current issues in formal semantics for natural language.

**Prerequisites:** junior standing and LINGUIS 466(P) or equivalent.

**Course Rules:** Previously LINGUIS 566.

**Last Taught:** Fall 2022, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 561 Advanced Phonology**

3 cr. Undergraduate.

Fundamental issues in generative phonology; emphasis on comparing alternative models of phonological description.

**Prerequisites:** junior standing and LINGUIS 460(P).

**Course Rules:** Previously LINGUIS 560.

**Last Taught:** Fall 2022, Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 564 Advanced Syntax**

3 cr. Undergraduate/Graduate.

Continuation of Linguis 464, with greater emphasis on the evaluation and justification of competing solutions and competing models of grammar.

**Prerequisites:** jr st & Linguis 464(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 564G Advanced Syntax**

3 cr. Undergraduate/Graduate.

Continuation of Linguis 464, with greater emphasis on the evaluation and justification of competing solutions and competing models of grammar.

**Prerequisites:** jr st & Linguis 464(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 567 Materials and Curriculum for TESOL**

3 cr. Undergraduate.

Designed for prospective ESL/EFL teachers. Focus on planning and designing courses to meet the needs of specific populations of language learners.

**Prerequisites:** junior standing or above and LINGUIS 441(P) (previously LINGUIS 565).

**Course Rules:** ENGLISH 567 and LINGUIS 567 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 569 Practicum in Teaching ESL to Adult Learners**

3 cr. Undergraduate.

A structured, supervised practicum in language teaching to students in the adult/university TESOL certificate program.

**Prerequisites:** junior standing or above, LINGUIS 441(P) (previously 565) and LINGUIS 510(P) (previously 410).

**Course Rules:** ENGLISH 569 and LINGUIS 569 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 570 Issues in Bilingualism**

3 cr. Undergraduate/Graduate.

Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints.

**Prerequisites:** jr st.

**Course Rules:** Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 570G Issues in Bilingualism**

3 cr. Undergraduate/Graduate.

Study of bilingual competence, bilingual community, and second language acquisition from sociolinguistic, psycholinguistic, and general linguistic standpoints.

**Prerequisites:** jr st.

**Course Rules:** Anthro 570 & Linguis 570 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 590 Morphology**

3 cr. Undergraduate/Graduate.

Introduction to morphology, which is the study of word formation in human language.

**Prerequisites:** jr st & Linguis 350(P); or grad st & cons instr.

**Course Rules:** Counts as repeat of Linguis 763.

**Last Taught:** Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 590G Morphology**

3 cr. Undergraduate/Graduate.

Introduction to morphology, which is the study of word formation in human language.

**Prerequisites:** jr st & Linguis 350(P); or grad st & cons instr.

**Course Rules:** Counts as repeat of Linguis 763.

**Last Taught:** Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 699 Independent Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a Linguis faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult dept chair.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 12 cr max.

**Last Taught:** Spring 2023, Spring 2019, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 708 Proseminar in Linguistics**

3 cr. Graduate.

Presents a range of linguistic constructs, demonstrating through readings, problems, and exercises how these concepts can be used in the analysis of language.

**Prerequisites:** grad st.

**Course Rules:** Linguis 708(701) & MALLT 708 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 715 First Language Acquisition**

3 cr. Graduate.

Examination of research on what individuals know about their first language at different ages and the kinds of theories offered to explain these data.

**Prerequisites:** graduate standing.

**Course Rules:** No credit for students with graduate credit in LINGUIS 415.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 720 Introduction to Second Language Acquisition**

3 cr. Graduate.

Introduction to theories of second language acquisition.

**Prerequisites:** grad st.

**Course Rules:** Previously LINGUIS 766.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 741 Introduction to TESOL Methods**

3 cr. Graduate.

Designed for prospective ESL/EFL teachers. Graduate level introduction to the field of adult TESOL.

**Prerequisites:** graduate standing.

**Course Rules:** Previously LINGUIS 767.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 750 Introduction to Phonetics**

3 cr. Graduate.

Introduction to phonetics, the basics of speech production and speech acoustics.

**Prerequisites:** graduate standing.

**Course Rules:** Not open for cr to students w/ graduate credit in LINGUIS 450.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 755 Semantics**

3 cr. Graduate.

The study of meaning in language; its role in grammatical description. Basic concepts used in semantic analysis and discussion of their place in grammatical theory.

**Prerequisites:** graduate standing.

**Course Rules:** No credit for students with graduate credit in LINGUIS 455.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 760 Research Methods in Linguistics and ESL**

3 cr. Graduate.

Introduction to basic research methodology in linguistics and ESL.

**Prerequisites:** grad st; cons instr.

**Course Rules:** English 760 & Linguis 760 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 761 Introduction to Phonology**

3 cr. Graduate.

Introduction to the basic properties of sounds, sound patterns, and sound processes of spoken language.

**Prerequisites:** grad st; Linguis 350(P) or equiv.

**Course Rules:** Counts as repeat of LINGUIS 460.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 763 Morphology**

3 cr. Graduate.

A graduate-level introduction to morphological theory.

**Prerequisites:** grad st; Linguis 460(P) & 464(P) or equiv.

**Last Taught:** Fall 2020, Fall 2019, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 764 Introduction to Syntax**

3 cr. Graduate.

Investigation of the syntax or sentence structure properties of human language.

**Prerequisites:** grad st.

**Course Rules:** Not open for cr to students w/grad cr in LINGUIS 464.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 765 Pragmatics**

3 cr. Graduate.

Investigation of selected topics in the relationship between linguistic expressions and those who use them.

**Prerequisites:** grad st; Linguis 466(P) or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 768 Language in its Various Forms:**

3 cr. Graduate.

Analysis and description of various language types. Topics may include language change, language development, dialectology, and language typology.

**Prerequisites:** graduate standing.

**Course Rules:** May be retaken with change in topic to 9 cr max; counts as repeat of LINGUIS 468G if the topic is identical.

**Last Taught:** Fall 2023, Spring 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 770 Historical and Comparative Linguistics**

3 cr. Graduate.

The study of phonological and morphological change by studying the process of internal reconstruction, the comparative method, and the historical processes of analogical, grammatical, and semantic change in languages.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Spring 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 774 Language Typology and Universals**

3 cr. Graduate.

Comparison of phonetic, syntactic, and lexical patterns of different languages, with emphasis on deriving statements about properties of all languages or of significant subclasses of languages.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 798 Internship in Linguistics**

1-3 cr. Graduate.

Application of advanced principles of linguistics in an internship experience in a business, organizational, educational, political, governmental or other appropriate setting.

**Prerequisites:** grad st.**Course Rules:** One cr earned for academic work based on minimum 40 hrs in internship. Paper or project req'd.**Last Taught:** Summer 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 799 Independent Reading and Research for Master's Students**

1-3 cr. Graduate.

Independent reading and/or research under the supervision of a Linguistics faculty member on a linguistics topic relating to the student's area of interest.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 801 Seminar in Syntax and Semantics:**

3 cr. Graduate.

Advanced topics in the theory of syntax, including but not limited to, syntactic description, variation, and typology.

**Prerequisites:** grad st**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 802 Seminar in Phonology and Phonetics:**

3 cr. Graduate.

Advanced topics in phonological theory, including, but not limited to, phonological description, variation, and typology.

**Prerequisites:** grad st**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2022, Spring 2020, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 803 Seminar in Language Acquisition:**

3 cr. Graduate.

Theory of adult language acquisition, including, but not limited to, interpretation of learner errors, description of acquisition strategies, and analysis of learning sequences.

**Prerequisites:** grad st**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2022, Fall 2018, Fall 2015, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 804 Seminar in Language Variation:**

3 cr. Graduate.

Advanced topics in social dialects, including, but not limited to, language variation, social markers, and the concept of a standard language.

**Prerequisites:** grad st**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2021, Fall 2019, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 806 Seminar in Linguistics:**

3 cr. Graduate.

Advanced-level seminar in which students do in-depth research on a particular area of linguistics through readings, class discussion, and writing a research paper.

**Prerequisites:** graduate standing; consent of instructor.**Course Rules:** Retakable with change in topic to 9 cr max.**Last Taught:** Spring 2022, Fall 2021, Spring 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 810 Methodologies in English Language Teaching**

3 cr. Graduate.

Methodological approaches that can be used in the teaching of reading, writing, grammar, and listening/speaking to ESL/EFL learners.

**Prerequisites:** graduate standing and completion of LINGUIS 741 (previously 767).**Course Rules:** Counts as a repeat of LINGUIS 410G.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 850 Advanced Phonetics**

3 cr. Graduate.

Auditory phonetics; issues in speech production and speech acoustics; quantitative study of speech sounds in linguistic contexts; independent experimental research on topic selected by student.

**Prerequisites:** graduate standing.**Last Taught:** Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**LINGUIS 855 Advanced Semantics**

3 cr. Graduate.

Readings, discussion, and analysis of current issues in formal semantics for natural language.

**Prerequisites:** graduate standing.**Course Rules:** No credit for students with graduate credit in LINGUIS 555.**Last Taught:** Fall 2023, Fall 2022, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 861 Advanced Phonology**

3 cr. Graduate.

Fundamental issues in generative phonology; emphasis on comparing alternative models of phonological description.

**Prerequisites:** graduate standing.

**Course Rules:** No credit for students with graduate credit in LINGUIS 561.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 864 Advanced Syntax**

3 cr. Graduate.

Emphasis on the evaluation and justification of competing solutions and competing models of grammar/syntax.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 867 Materials and Curriculum for TESOL**

3 cr. Graduate.

Designed for prospective ESL/EFL teachers. Focus on planning and designing materials and curriculum to meet the needs of specific populations of language learners.

**Prerequisites:** graduate standing and LINGUIS 741(P) (previously 767).

**Course Rules:** Counts as repeat of LINGUIS 567G or ENGLISH 567G.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 869 Practicum in Teaching ESL to Adult Learners**

1-6 cr. Graduate.

Field experience in teaching English as a second language to adult learners.

**Prerequisites:** graduate standing, completion of LINGUIS 741 (previously 767) and LINGUIS 810 (formerly 410G), and program director consent.

**Course Rules:** Repeatable to 6 cr max. Previously LINGUIS 789 and ENGLISH 789. LINGUIS 869 and ENGLISH 869 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 888 Candidate for Degree**

0 cr. Graduate.

Available for students who must meet minimum credit requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 10 cr max. Satisfactory/Unsatisfactory only.

**Last Taught:** Spring 2019, Spring 2016, Fall 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 990 Research in Linguistics**

1-3 cr. Graduate.

Research and writing of the doctoral dissertation under the supervision of the major professor.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**LINGUIS 999 Independent Reading for Doctoral Students**

1-3 cr. Graduate.

Individual work directed by a member of the graduate faculty; for doctoral students unable to secure needed content in regular courses.

**Prerequisites:** grad st; cons instr

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## M.A. in Language, Literature, and Translation (MALLT)

**MALLT 700 Language Teaching Methods**

3 cr. Graduate.

Introduction to practical issues of language instruction for new teaching assistants and language teachers; explores some theoretical issues related to second- and foreign language learning.

**Prerequisites:** grad st

**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 703 Seminar in Language and Communication:**

3 cr. Graduate.

Survey of basic theories on the nature of language and of the modes of verbal communication, with emphasis on the socio-cultural aspects.

**Prerequisites:** grad st; proficiency in a language other than English

**Last Taught:** Fall 2011, Spring 2011, Spring 2009, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 706 Seminar in Foreign Language Methodology and Pedagogy**

3 cr. Graduate.

Nature and direction of recent developments in foreign language methodology and instructional principles.

**Prerequisites:** grad st

**Last Taught:** Spring 2013, Spring 2010, Fall 2006, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 708 Proseminar in Linguistics**

3 cr. Graduate.

Presents a range of linguistic constructs, demonstrating through readings, problems, and exercises how these concepts can be used in the analysis of language.

**Prerequisites:** grad st.

**Course Rules:** Linguis 708(701) & MALLT 708 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 709 Seminar in Literary and Cultural Translation**

3 cr. Graduate.

Development of translation strategies focusing on a variety of literary genres, using theoretical premises influencing literary translation and tackling practical matters such as publication processes.

**Prerequisites:** graduate standing.

**Course Rules:** MALLT 709 and TRNSLTN 709 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020, Spring 2018, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 712 Bibliographic and Research Methodology in Foreign Language and Literature**

3 cr. Graduate.

Discussion of types of research in languages and literatures, bibliographic resources and sources of research support.

**Prerequisites:** grad st

**Last Taught:** Spring 2010, Fall 1999, Fall 1998, Fall 1996.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 721 The Old Testament in Literature and the Arts**

3 cr. Graduate.

The impact of the Old Testament on literature and the arts; its influence on major subsequent religious classics and through them on music, philosophy, and the visual arts.

**Prerequisites:** grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 728 Literary Translation**

3 cr. Graduate.

Seminar in literary translation focusing on various genres including prose, poetry, essays, and theater; publication and copyright matters.

**Prerequisites:** grad st; admission to Translation Program.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 740 Approaches to the Modern I**

3 cr. Graduate.

Seminar on the major figures and intellectual forces that have shaped multiple approaches to the modern across the academy.

**Prerequisites:** grad st.

**Course Rules:** English 740, Hist 740, & MALLT 740 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2021, Spring 2017, Fall 2013, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 741 Approaches to the Modern II**

3 cr. Graduate.

Seminar on major figures and intellectual forces that have shaped approaches to the modern across periods.

**Prerequisites:** grad st.

**Course Rules:** English 741, Hist 741 & MALLT 741 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2020, Spring 2013, Fall 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 781 Graduate Study Abroad: Language and Culture:**

1-3 cr. Graduate.

Coursework in a foreign language or culture taken in a UWM exchange program at a foreign university; subject to review and evaluation of the MALLT program faculty.

**Prerequisites:** grad st; cons MALLT coord comm chair.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2017, Summer 2014, Summer 2012, Summer 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 782 Graduate Study Abroad: Pre-1900 Literature:**

1-3 cr. Graduate.

Coursework in pre-1900 literature taken in a UWM exchange program at a foreign university; subject to review and evaluation of the MALLT program faculty.

**Prerequisites:** grad st; cons MALLT coord comm chair.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 1999, Fall 1998, Spring 1996, Fall 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 783 Graduate Study Abroad: Post-1900 Literature:**

1-3 cr. Graduate.

Coursework in post-1900 literature taken in a UWM exchange program at a foreign university; subject to review and evaluation of the MALLT program faculty.

**Prerequisites:** grad st; cons MALLT coord comm chair.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2007, Fall 2006, Fall 2002, Spring 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 790 Thesis**

1-6 cr. Graduate.

Independent study and research on a master's thesis under supervision of the student's advisory committee.

**Prerequisites:** grad st; cons advisory committee.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Spring 2020, Fall 2017, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 791 Reading and Research - Greek or Latin**

1-3 cr. Graduate.

Reading and research under the direction of a member of the MALLT faculty.

**Prerequisites:** grad st.

**Last Taught:** Fall 2016, Spring 2014, Spring 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 792 Reading and Research - Comparative Literature**

1-3 cr. Graduate.

Reading and research under the direction of a member of the MALLT faculty.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Spring 2017, Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 793 Reading and Research - French or Italian**

1-3 cr. Graduate.

Reading and research under the direction of a member of the MALLT faculty.

**Prerequisites:** grad st.

**Last Taught:** Summer 2021, Spring 2018, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 794 Reading and Research - German**

1-3 cr. Graduate.

Reading and research under the direction of a member of the MALLT faculty.

**Prerequisites:** grad st.

**Last Taught:** Fall 2017, Spring 2014, Spring 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 795 Reading and Research - Hebrew or Arabic**

1-3 cr. Graduate.

Reading and research under the direction of a member of the MALLT faculty.

**Prerequisites:** grad st.

**Last Taught:** Fall 2010, Fall 2009, Summer 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MALLT 796 Reading and Research - Language**

1-3 cr. Graduate.

Reading and research under the direction of a member of the MALLT faculty.

**Prerequisites:** grad st.**Last Taught:** Fall 2007, Fall 2004, Fall 1996, Spring 1996.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MALLT 797 Reading and Research - Polish or Russian or Serbo-Croatian**

1-3 cr. Graduate.

Reading and research under the direction of a member of the MALLT faculty.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Spring 2021, Spring 2020, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MALLT 798 Reading and Research - Spanish or Portuguese**

1-3 cr. Graduate.

Reading and research under the direction of a member of the MALLT faculty.

**Prerequisites:** grad st.**Last Taught:** Spring 2002, Spring 2000, Spring 1999, Fall 1998.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MALLT 799 Reading and Research**

1-3 cr. Graduate.

Directed reading and research on a topic selected by the student in consultation with his/her advisory committee.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2020, Fall 2018, Summer 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MALLT 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Spring 2021, Summer 2020, Summer 2019, Summer 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Materials Science and Engineering (MATLENG)

**MATLENG 150 It's a Material World: The Role of Materials in Society**

3 cr. Undergraduate.

Introductory course on the nature of materials and their role in the development of society. Historical perspectives, current societal issues, and future trends are discussed.

**Prerequisites:** none.**General Education Requirements:** NS+**Last Taught:** Spring 2009, Spring 2008, Spring 2007, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 201 Engineering Materials**

4 cr. Undergraduate.

Basic behavior and processing of engineering materials emphasizing metals and alloys and including ceramics and plastics. Laboratory work is included.

**Prerequisites:** MATH 231(C), score of 1 on chemistry placement test or a grade C or better in CHEM 100(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 299 Topics in Materials:**

1-3 cr. Undergraduate.

Work on new material in materials. Section title and credits announced whenever course is offered.

**Prerequisites:** specific courses dependent on topic.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Fall 2008, Spring 2006, Fall 2005, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 316 Thermodynamics of Materials**

3 cr. Undergraduate.

Chemical thermodynamics and application of thermodynamics to single and multi-component materials systems. Topics include heat and mass balance, enthalpy, entropy, free energy, reaction equilibria, behavior of solutions; phase diagrams.

**Prerequisites:** MATH 233(P), PHYSICS 209(P) or PHYSICS 219(P), MATLENG 201(P) and CHEM 104(P) OR CHEM 105(P).**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 316G Thermodynamics of Materials**

3 cr. Undergraduate.

Chemical thermodynamics and application of thermodynamics to single and multi-component materials systems. Topics include heat and mass balance, enthalpy, entropy, free energy, reaction equilibria, behavior of solutions; phase diagrams.

**Prerequisites:** MATH 233(P), PHYSICS 209(P) or PHYSICS 219(P), MATLENG 201(P) and CHEM 104(P) OR CHEM 105(P).**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 330 Materials and Processes in Manufacturing**

3 cr. Undergraduate.

Principles and practice of manufacturing processes for engineering materials. Processes include casting, forging, rolling, extrusion, sintering and machining. Laboratory work is included.

**Prerequisites:** MATLENG 201(P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 380 Engineering Basis for Materials Selection**

3 cr. Undergraduate.

The study of the basis for materials selection in the design of engineering systems. Materials design parameters, classes of materials case studies in material's selections.

**Prerequisites:** MATLENG 201(P).**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 385 Introduction to Biomaterials**

3 cr. Undergraduate.

Introduction to the fundamentals of biomaterials including ceramics, metals, and polymers. Important issues in the selection, design, manufacturing, and evaluation of biomaterials. Current applications, and emerging technologies.

**Prerequisites:** junior standing and MATLENG 201(P).

**Last Taught:** Spring 2021, Spring 2020, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 402 Physical Metallurgy**

3 cr. Undergraduate/Graduate.

Crystal binding and electron theory of solids, phase diagrams, diffusion, nucleation and growth, recrystallization, precipitation hardening, solidification, austenite decomposition.

**Prerequisites:** junior standing and MATLENG 201(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 402G Physical Metallurgy**

3 cr. Undergraduate/Graduate.

Crystal binding and electron theory of solids, phase diagrams, diffusion, nucleation and growth, recrystallization, precipitation hardening, solidification, austenite decomposition.

**Prerequisites:** junior standing and MATLENG 201(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 410 Mechanical Behavior of Materials**

3 cr. Undergraduate/Graduate.

An introduction to the mechanical behavior of metals, ceramics, polymers and composite materials. Topics include elastic, plastic and viscoelastic deformation, fracture, fatigue, and creep.

**Prerequisites:** junior standing and MATLENG 201(P); or graduate standing; or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 410G Mechanical Behavior of Materials**

3 cr. Undergraduate/Graduate.

An introduction to the mechanical behavior of metals, ceramics, polymers and composite materials. Topics include elastic, plastic and viscoelastic deformation, fracture, fatigue, and creep.

**Prerequisites:** junior standing and MATLENG 201(P); or graduate standing; or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 411 Materials Laboratory**

3 cr. Undergraduate.

Experiments demonstrating the basic laws governing the processing, structure, and properties of materials.

**Prerequisites:** junior standing and MATLENG 201(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 431 Welding Engineering**

3 cr. Undergraduate/Graduate.

An engineering course on joining processes; reaction of materials to welding, brazing and soldering; distortion; process and material selection and structural engineering considerations.

**Prerequisites:** junior standing and MATLENG 201(P).

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 431G Welding Engineering**

3 cr. Undergraduate/Graduate.

An engineering course on joining processes; reaction of materials to welding, brazing and soldering; distortion; process and material selection and structural engineering considerations.

**Prerequisites:** junior standing and MATLENG 201(P).

**Last Taught:** Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 443 Transport Phenomena in Materials Processing**

3 cr. Undergraduate/Graduate.

A study of phenomena related to transport of mass, energy, and momentum with applications to materials processing.

**Prerequisites:** junior standing, MATLENG 316(P); and ELECENG 234(P) or MATH 234(P); or graduate standing.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 443G Transport Phenomena in Materials Processing**

3 cr. Undergraduate/Graduate.

A study of phenomena related to transport of mass, energy, and momentum with applications to materials processing.

**Prerequisites:** junior standing, MATLENG 316(P); and ELECENG 234(P) or MATH 234(P); or graduate standing.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 452 Ceramic Materials**

3 cr. Undergraduate/Graduate.

Ceramic bonding, crystallography and structure, defects and Brouwer diagram, mass and electrical transport of ceramics, phase equilibria, mechanical properties, and processing of ceramics including sintering.

**Prerequisites:** junior standing and MATLENG 201(P) or graduate standing.

**Course Rules:** Not open for cr to students with cr in MATLENG 451(ER).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 452G Ceramic Materials**

3 cr. Undergraduate/Graduate.

Ceramic bonding, crystallography and structure, defects and Brouwer diagram, mass and electrical transport of ceramics, phase equilibria, mechanical properties, and processing of ceramics including sintering.

**Prerequisites:** junior standing and MATLENG 201(P) or graduate standing.

**Course Rules:** Not open for cr to students with cr in MATLENG 451(ER).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**MATLENG 453 Polymeric Materials**

3 cr. Undergraduate/Graduate.

Structure, crystallinity of polymers, amorphous polymers and elastomers, synthesis method, polymerization, copolymerization, polymer characterization, polymer solutions, and viscoelasticity, deformation mechanics of polymers.

**Prerequisites:** junior standing, MATLENG 201(P), and MATLENG 316(P) or MECHENG 301(P).

**Course Rules:** Not open for credit to students with credit in MATLENG 451(ER).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 453G Polymeric Materials**

3 cr. Undergraduate/Graduate.

Structure, crystallinity of polymers, amorphous polymers and elastomers, synthesis method, polymerization, copolymerization, polymer characterization, polymer solutions, and viscoelasticity, deformation mechanics of polymers.

**Prerequisites:** junior standing, MATLENG 201(P), and MATLENG 316(P) or MECHENG 301(P).

**Course Rules:** Not open for credit to students with credit in MATLENG 451(ER).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 456 Metal Casting Engineering**

3 cr. Undergraduate/Graduate.

Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MATLENG 456 and MECHENG 456 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 456G Metal Casting Engineering**

3 cr. Undergraduate/Graduate.

Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MATLENG 456 and MECHENG 456 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 457 Engineering Composites**

3 cr. Undergraduate/Graduate.

Study of the structure-property relationships in composite materials. Properties of fibers and other reinforcements. Metal, polymer and ceramic matrix composites.

**Prerequisites:** junior standing and MATLENG 201(P); or graduate standing.

**Course Rules:** MATLENG 457 and MECHENG 457 are jointly offered and count as repeats of each other.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 457G Engineering Composites**

3 cr. Undergraduate/Graduate.

Study of the structure-property relationships in composite materials. Properties of fibers and other reinforcements. Metal, polymer and ceramic matrix composites.

**Prerequisites:** junior standing and MATLENG 201(P); or graduate standing.

**Course Rules:** MATLENG 457 and MECHENG 457 are jointly offered and count as repeats of each other.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 460 Nanomaterials and Nanomanufacturing**

3 cr. Undergraduate/Graduate.

Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MATLENG 460 and MECHENG 460 are jointly offered; they count as repeats of each other.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 460G Nanomaterials and Nanomanufacturing**

3 cr. Undergraduate/Graduate.

Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MATLENG 460 and MECHENG 460 are jointly offered; they count as repeats of each other.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 461 Environmental Degradation of Materials**

3 cr. Undergraduate/Graduate.

Technical and economic aspects of material degradation including corrosion and corrosion control. Forms of corrosion, other degradation mechanisms, thermodynamics, kinetics, materials, design, protection strategies.

**Prerequisites:** junior standing and MATLENG 201(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 461G Environmental Degradation of Materials**

3 cr. Undergraduate/Graduate.

Technical and economic aspects of material degradation including corrosion and corrosion control. Forms of corrosion, other degradation mechanisms, thermodynamics, kinetics, materials, design, protection strategies.

**Prerequisites:** junior standing and MATLENG 201(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 465 Friction and Wear**

3 cr. Undergraduate/Graduate.

Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MATLENG 465 and MECHENG 465 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 465G Friction and Wear**

3 cr. Undergraduate/Graduate.

Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MATLENG 465 and MECHENG 465 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 471 Heat Treatment of Materials**

3 cr. Undergraduate/Graduate.

Study of the heat treatment processes and their effect on the microstructure and properties of metals. Emphasis is on steels, but all alloy systems of importance are covered.

**Prerequisites:** junior standing and MATLENG 201(P); or graduate standing.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 471G Heat Treatment of Materials**

3 cr. Undergraduate/Graduate.

Study of the heat treatment processes and their effect on the microstructure and properties of metals. Emphasis is on steels, but all alloy systems of importance are covered.

**Prerequisites:** junior standing and MATLENG 201(P); or graduate standing.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 481 Electronic Materials**

3 cr. Undergraduate/Graduate.

Modern principles of semiconductor fabrication, crystals, electrical and thermal conductivity phenomena, band gap and structure, doping effects, dielectric and optical properties, semiconductor homo and hetero-junctions, solar cells, thermo-electric materials; with projects.

**Prerequisites:** junior standing and PHYSICS 210(P) or PHYSICS 220(P); or consent of instructor.

**Course Rules:** MATLENG 481 and ELECENG 481 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 481G Electronic Materials**

3 cr. Undergraduate/Graduate.

Modern principles of semiconductor fabrication, crystals, electrical and thermal conductivity phenomena, band gap and structure, doping effects, dielectric and optical properties, semiconductor homo and hetero-junctions, solar cells, thermo-electric materials; with projects.

**Prerequisites:** junior standing and PHYSICS 210(P) or PHYSICS 220(P); or consent of instructor.

**Course Rules:** MATLENG 481 and ELECENG 481 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 483 Materials for Energy Systems**

3 cr. Undergraduate/Graduate.

Processing, structure, and properties of materials used in energy systems. Focus on materials applied to solid oxide fuel cells, photovoltaics, and advanced secondary batteries.

**Prerequisites:** junior standing and MATLENG 201(P); or graduate standing.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 483G Materials for Energy Systems**

3 cr. Undergraduate/Graduate.

Processing, structure, and properties of materials used in energy systems. Focus on materials applied to solid oxide fuel cells, photovoltaics, and advanced secondary batteries.

**Prerequisites:** junior standing and MATLENG 201(P); or graduate standing.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 485 Introduction to Computational Materials Modeling and Simulations**

3 cr. Undergraduate/Graduate.

Basic principles of materials modeling and molecular simulation techniques used to study the properties and behavior of materials at the molecular level.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** Counts as a repeat of MATLENG 690 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 485G Introduction to Computational Materials Modeling and Simulations**

3 cr. Undergraduate/Graduate.

Basic principles of materials modeling and molecular simulation techniques used to study the properties and behavior of materials at the molecular level.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** Counts as a repeat of MATLENG 690 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 490 Senior Design Projects I**

1 cr. Undergraduate.

Project identification and planning; proposals, project management, ethics, professional responsibilities, standards and team procedures. Written and oral engineering reports and proposals. For first semester seniors.

**Prerequisites:** senior standing and MATLENG 411(C).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 491 Senior Design Projects II**

3 cr. Undergraduate.

Independent and team design projects under the direction of a faculty member. Written and oral engineering reports must be submitted on each design project undertaken.

**Prerequisites:** MATLENG 490(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 511 Advanced Materials Characterization**

3 cr. Undergraduate/Graduate.

Theory and operation of advanced materials characterization instrumentation including thermal analysis (TGA, DSC, DMA), XRD, SEM/EDS, FTIR/Raman, 3D confocal microscopy. Prereq: junior standing and MATLENG 411(P).

**Last Taught:** Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 511G Advanced Materials Characterization**

3 cr. Undergraduate/Graduate.

Theory and operation of advanced materials characterization instrumentation including thermal analysis (TGA, DSC, DMA), XRD, SEM/EDS, FTIR/Raman, 3D confocal microscopy. Prereq: junior standing and MATLENG 411(P).

**Last Taught:** Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 585 Advanced Biomaterials**

3 cr. Undergraduate/Graduate.

Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering.

**Prerequisites:** senior standing; MATLENG 385(P) or BME 385(P); or consent of instructor.

**Course Rules:** BME 585 and MATLENG 585 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 585G Advanced Biomaterials**

3 cr. Undergraduate/Graduate.

Theory and application of advanced biomaterials including cardiovascular devices, orthopedic applications, drug delivery systems, biosensors, and tissue engineering.

**Prerequisites:** senior standing; MATLENG 385(P) or BME 385(P); or consent of instructor.

**Course Rules:** BME 585 and MATLENG 585 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 690 Topics in Materials:**

3 cr. Undergraduate/Graduate.

Lectures on special topics in materials engineering and science.

**Prerequisites:** junior standing or greater or consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 690G Topics in Materials:**

3 cr. Undergraduate/Graduate.

Lectures on special topics in materials engineering and science.

**Prerequisites:** junior standing or greater or consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 699 Independent Study**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** junior standing or greater or consent of instructor.

**Course Rules:** May be retaken to max of 6 cr applied toward undergraduate degree.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 699G Independent Study**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** junior standing or greater or consent of instructor.

**Course Rules:** May be retaken to max of 6 cr applied toward undergraduate degree.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 700 CEAS Graduate Seminar**

1-3 cr. Graduate.

Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.

**Prerequisites:** graduate standing.

**Course Rules:** CV ENG 700, COMPSCI 700, ELECENG 700, IND ENG 700, MATLENG 700 and MECHENG 700 are jointly offered and count as repeats of one another

**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 701 Properties of Solids**

3 cr. Graduate.

The applications of physics to the understanding of the properties of solids, including lattice mechanics, band theory, electrical, thermal, magnetic, and defect properties.

**Prerequisites:** graduate standing and MATLENG 402(P).

**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 702 Advanced Materials Thermodynamics**

3 cr. Graduate.

Thermodynamics of materials including solutions, mixtures, and interfaces. Topics including statistical interpretation of entropy, chemical reactions, Ellingham diagrams, phase diagrams, and intermediate phases.

**Prerequisites:** graduate standing and MATLENG 442(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 710 Advanced Mechanical Behavior of Materials**

3 cr. Graduate.

Advanced topics on the mechanical properties of materials including plasticity, anelasticity, fracture, creep, fatigue, and the effects of temperature, rates, and processing history.

**Prerequisites:** graduate standing and MATLENG 410(P).**Last Taught:** Spring 2021, Spring 2019, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 720 Kinetic Processes in Materials**

3 cr. Graduate.

Absolute reaction rate theory, defects in materials, diffusion, phase transformation in metals.

**Prerequisites:** graduate standing and MATLENG 442(P).**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 731 Deformation Processing**

3 cr. Graduate.

Application of engineering principles to shape generation by deformation processing. Analysis of forging, stamping, drawing. Effect of deformation material properties and behavior.

**Prerequisites:** graduate standing and MATLENG 410(P).**Last Taught:** Fall 2021, Fall 2019, Fall 2017, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 732 Solidification Processing**

3 cr. Graduate.

Solidification phenomena and its engineering application to metals, semiconductors, ceramics, properties of cast products. Foundry processes.

**Prerequisites:** graduate standing and MATLENG 330(P).**Course Rules:** MATLENG 732 and MECHENG 732 are jointly offered and count as repeats of one other.**Last Taught:** Fall 2018, Fall 2016, Fall 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 740 Heterogeneous Equilibria**

3 cr. Graduate.

Quantitative description of heterogeneous equilibria for unary, binary, and ternary systems from the thermodynamic point of view; composite systems and current experimental techniques in high temperature materials.

**Prerequisites:** graduate standing, MECHENG 301(P), and

MATLENG 201(P).

**Last Taught:** Fall 2013, Fall 2011, Fall 2009, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 750 Thin Solid Films**

3 cr. Graduate.

Application of materials science to thin films. Nucleation, growth, and characterization. Discussion of optical, electrical, and mechanical behavior in terms of atomic order and chemistry. Consideration of specific deposition methods and applications.

**Prerequisites:** graduate standing, MATLENG 201(P), and PHYSICS 210(P).**Last Taught:** Spring 2010, Spring 2007, Spring 2003, Fall 1997.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 760 Surface Analysis of Solids**

3 cr. Graduate.

Introduction to thermodynamics, structure and quantum theory of surfaces. Fundamentals of spectroscopic methods for analysis of surfaces. Applications to practical surface analysis problems: catalysis, thin films, polymers, ceramics, metallurgy and corrosion, coatings, glasses and composites.

**Prerequisites:** graduate standing or consent of instructor.**Last Taught:** Spring 2015, Spring 2002, Spring 1997, Fall 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 783 Electrochemistry of Fuel Cells and Batteries**

3 cr. Graduate.

Covers the electrochemistry of fuel cells, batteries and electrolytic methods, including thermodynamics and kinetics of electrode reactions and associated mass transport in electrochemical systems, and measurement techniques in electrochemical systems.

**Prerequisites:** MATLENG 316(P), MATLENG 443(P), or MATLENG 483(P); or consent to instructor.**Course Rules:** Advanced course that builds upon MATLENG 483. Counts as a repeat of MATLENG 890 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 785 Atomistic Modeling and Simulation of Materials**

3 cr. Graduate.

Fundamental principles describing materials in terms of electrons and atoms; relations with macroscopic behaviors; modeling and simulation techniques including ab initio, density functional theory, molecular dynamics, and others.

**Prerequisites:** graduate standing.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 880 Bioengineering Seminar**

1 cr. Graduate.

Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.

**Prerequisites:** graduate standing.**Course Rules:** CIV ENG 880, COMPSCI 880, ELECENG 880, IND ENG 880, MATLENG 880, and MECHENG 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr max.**Last Taught:** Spring 2017, Fall 2015, Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirements.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Summer 2023, Summer 2018, Spring 2016, Summer 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 890 Advanced Topics in Materials:**

3 cr. Graduate.

Lectures on special topics in materials engineering and science.

**Prerequisites:** graduate standing; consent of instructor.**Course Rules:** May be repeated with change in topic to max of 9 cr.**Last Taught:** Fall 2022, Fall 2021, Fall 2018, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATLENG 990 Masters Thesis**

1-9 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Repeatable to 12 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 998 Doctoral Thesis**

1-12 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Repeatable.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATLENG 999 Advanced Independent Study**

1-3 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor and graduate program committee.**Course Rules:** Repeatable to 15 cr max.**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Mathematical Sciences (MATH)

**MATH 75 Math Success Strategies**

0 cr. Undergraduate.

Highly interactive format providing mathematics instruction and instilling study skills and strategies for succeeding in mathematics courses.

**Prerequisites:** none.**Course Rules:** Fee for variable credit assessed (1-6) depending on contact hours; credits count toward credit load for Financial Aid and enrollment verification only. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 90 Basic Mathematics**

0 cr. Undergraduate.

Arithmetic operations involving whole numbers, integers, positive and negative rational numbers; decimals, percents; ratio, proportion; radicals; descriptive statistics; units of measure; geometry; introduction to algebra.

**Prerequisites:** none.**Course Rules:** Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Not open to students eligible for math courses that carry graduation credit.**Last Taught:** Summer 2019, Summer 2018, Summer 2017, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 92 Mathematical Literacy for College Students I**

0 cr. Undergraduate.

Introduction to numeracy, proportional reasoning, algebraic reasoning, and functions. Emphasis on developing conceptual and procedural tools that support the use of key mathematical concepts in context.

**Prerequisites:** none.**Course Rules:** Fee for 3 cr assessed; counts as 3 cr toward cr load for Financial Aid & enrollment verification. Not recommended for students planning to take Calculus or Chem 100.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 94 Foundations of Elementary Mathematics**

0 cr. Undergraduate.

Arithmetic, geometry, and beginning algebra; develops mathematical reasoning, problem solving, and facility with basic mathematical objects and their relationships. Individualized instruction via adaptive learning software.

**Prerequisites:** none.**Course Rules:** Fee for 6 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only. Math 94 counts as repeat of Math 90 & 95.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 95 Essentials of Algebra**

0 cr. Undergraduate.

Number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring, rational expressions; coordinate geometry; linear systems; quadratic equations.

**Prerequisites:** a grade of C or better in MATH 90(P) or MATH 102(P); or grade of D in MATH 94(P); or Math Placement Level 10.**Course Rules:** Fee for 3 cr assessed; credits count toward credit load for Financial Aid and enrollment verification only.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 98 Algebraic Literacy I**

0 cr. Undergraduate.

Arithmetic number systems; linear equations, inequalities; exponent notation, radicals; polynomials, operations, factoring; modeling; coordinate geometry; linear systems; quadratic equations.

**Prerequisites:** a grade of C or better in MATH 90(P) or MATH 102(P); or grade of D in MATH 94(P); or Math Placement Level 10.**Course Rules:** Fee for 3 cr assessed; counts as 3 cr toward credit load for Fin Aid & enrollment verification only.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 100 Supplemental Math**

1-2 cr. Undergraduate.

Development of foundational skills and concepts to allow concurrent enrollment in certain credit-bearing mathematics courses in place of prerequisite enrollment.

**Prerequisites:** department consent.**Course Rules:** Retakeable to 2 cr max. Specific topic and additional prerequisites announced in schedule of classes each time course is offered.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 102 Mathematical Literacy for College Students II**

3 cr. Undergraduate.

Continuation of MATH 92, with an integrated approach to numeracy, proportional reasoning, algebraic reasoning, and functions.

**Prerequisites:** a grade of C or better in MATH 92(P) or MATH 90(P); or grade of D in MATH 94(P); or Math Placement Level 10.**General Education Requirements:** MTH, QLA**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 102X Mathematical Literacy for College Students II**

3 cr. Undergraduate.

Continuation of MATH 92, with an integrated approach to numeracy, proportional reasoning, algebraic reasoning, and functions.

**Prerequisites:** a grade of C or better in MATH 92(P) or MATH 90(P); or grade of D in MATH 94(P); or Math Placement Level 10.**General Education Requirements:** MTH, QLA**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 103 Contemporary Applications of Mathematics**

3 cr. Undergraduate.

Selected topics in applied mathematics and statistics, such as, but not limited to, voting theory, fair division, apportionment, graph theory, financial mathematics, and statistical inference.

**Prerequisites:** a grade of C or better in MATH 90(P) or MATH 102(P); or grade of D in MATH 94(P); or Math Placement Level 10.**Course Rules:** Not recommended for students planning to take Calculus or CHEM 100.**General Education Requirements:** MTH, QLA**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 105 Introduction to College Algebra**

3 cr. Undergraduate.

Algebraic techniques with polynomials, rational expressions, equations and inequalities, exponential and logarithmic functions, rational exponents, systems of linear equations.

**Prerequisites:** a grade of C or better in MATH 94(P), MATH 95(P), or MATH 98(P); or Math Placement Level 20.**Course Rules:** Counts as repeat of MATH 108.**General Education Requirements:** MTH, QLA**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 108 Algebraic Literacy II**

3 cr. Undergraduate.

Continuation of MATH 98 in polynomials, equations, and inequalities; exponential, logarithmic, and periodic functions; rational expressions and exponents; and systems of linear equations.

**Prerequisites:** C or better MATH 98.**Course Rules:** Counts as repeat of MATH 105.**General Education Requirements:** MTH, QLA**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 111 Introduction to Logic - Critical Reasoning**

3 cr. Undergraduate.

Students learn a broad variety of fundamental logical methods - techniques used to identify, analyze, model, evaluate, and criticize different types of real-world reasoning.

**Prerequisites:** a grade of C or better in MATH 90(P) or MATH 102(P); or grade of D in MATH 94(P); or Math Placement Level 10.**Course Rules:** PHILOS 111 and MATH 111 are jointly offered; they count as repeats of one another.**General Education Requirements:** HU, QLA**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 115 Precalculus**

4 cr. Undergraduate.

Essential topics from college algebra and trigonometry for students intending to enroll in calculus.

**Prerequisites:** a grade of C or better in MATH 105(P), MATH 108(P), or MATH 116(P); or Math Placement Level 30.**Course Rules:** Repeats 2 cr of MATH 116 & 2 cr of MATH 117.**General Education Requirements:** QLA**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 116 College Algebra**

3 cr. Undergraduate.

Function concepts. Polynomial, rational, exponential, and logarithmic functions. Systems of equations and inequalities. Matrices and determinants. Sequences and series. Analytic geometry and conic sections. Induction.

**Prerequisites:** a grade of C or better in MATH 94(P), MATH 95(P), or MATH 98; or Math Placement Level 20.**Course Rules:** 2 cr may be used to repeat 2 cr of MATH 115.**General Education Requirements:** MTH, QLA**Last Taught:** Summer 2020, Spring 2020, Fall 2019, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 117 Trigonometry**

2 cr. Undergraduate.

Trigonometric functions; graphs, identities, equations, inequalities; inverse trigonometric functions; solutions of triangles with applications; complex numbers; polar coordinates.

**Prerequisites:** a grade of C or better in MATH 105(P), MATH 108(P), or MATH 116(P); or Math Placement Level 30.**Course Rules:** Counts as a repeat of 2 cr of MATH 115.**Last Taught:** Summer 2020, Spring 2020, UWinterIM 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 175 Mathematical Explorations for Elementary Teachers I**

3 cr. Undergraduate.

Theory of arithmetic of whole numbers, fractions, and decimals. Introduction to algebra, estimation and problem-solving strategies.

**Prerequisites:** Registration in elementary, early childhood, or exceptional education curriculum; and either a grade of C or better in MATH 94(P), MATH 95(P), MATH 98(P), MATH 102(P) or MATH 103(P); or Math Placement Level of at least 20.**General Education Requirements:** MTH, QLA**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 176 Mathematical Explorations for Elementary Teachers II**

3 cr. Undergraduate.

A continuation of MATH 175 in geometry, statistics, and probability.

**Prerequisites:** grade of C or better in MATH 175(P).**General Education Requirements:** QL B**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 194 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** NS

**Last Taught:** Fall 2002, Fall 2001, Fall 2000, Spring 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 199 Independent Study**

1-3 cr. Undergraduate.

Regularly offered courses may not be taken as Independent Study.

**Prerequisites:** 2.0 GPA in all previous math courses; consent of instructor, department chair and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2016, UWinterIM 2014, Spring 2011, Summer 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 205 Introductory Finite Mathematics**

3 cr. Undergraduate.

Elementary deterministic and probabilistic discrete mathematics and applications to a wide variety of disciplines. Topics may include linear programming, Markov chains, optimization, stochastic processes.

**Prerequisites:** a grade of C or better in MATH 105(P), MATH 108(P), or MATH 116(P); or Math Placement Level 30.

**General Education Requirements:** NS, QLB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 208 Quantitative Models for Business**

4 cr. Undergraduate.

Applications of algebra, functions, and optimization methods in business and economics settings.

**Prerequisites:** a grade of C or better in MATH 105(P), MATH 108(P), or MATH 116(P); or Math Placement Level 30.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 211 Survey in Calculus and Analytic Geometry I**

4 cr. Undergraduate.

A one-semester survey with applications to business administration, economics, and non-physical sciences. Topics include coordinate systems, equations of curves, limits, differentiation, integration, applications.

**Prerequisites:** a grade of C or better in MATH 105(P), MATH 108(P), or MATH 116(P); or Math Placement Level 30.

**Course Rules:** May not be used as a prerequisite for MATH 232. No cr for students with cr in MATH 213, MATH 221, or MATH 231.

**General Education Requirements:** NS, QLB

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 212 Survey in Calculus and Analytic Geometry II**

4 cr. Undergraduate.

Continuation of first semester survey of calculus with applications to business administration, economics, and non-physical sciences. Topics include integration, multivariable calculus, Taylor polynomials and applications.

**Prerequisites:** grade of C or better in one of the following: MATH 208(P), MATH 211(P), MATH 213(P), MATH 221(P), or MATH 231(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 213 Calculus with Life Sciences Applications**

4 cr. Undergraduate.

Limits, derivatives, graphing. Antiderivatives, the definite integral, and the fundamental theorem of calculus. Additional techniques and applications pertinent to the life sciences throughout the course.

**Prerequisites:** a grade of C or better in MATH 115(P); or both Proficiency in Trigonometry (grade of C or better in MATH 117(P), or Level 26 or 36 on Math Placement Test) and Proficiency in Algebra (grade of C or better in MATH 116(P) or MATH 211(P), or Level 35 on Math Placement Test); or Math Placement Level 40.

**Course Rules:** No credit for students with credit in MATH 221 or MATH 231.

**General Education Requirements:** NS, QLB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 221 Honors Calculus I**

5 cr. Undergraduate.

Calculus of functions of one and several variables; sequences, series, differentiation, integration; introduction to differential equations; vectors and vector functions; applications.

**Prerequisites:** consent of instructor or Honors College Director and grade of A- or better in MATH 115(P), or in both of MATH 116(P) and MATH 117(P); or Level 40 on a Math Placement Test & ACT math subscore 30 or higher; or Math Placement Level 45.

**Course Rules:** Max 6 cr in combination of MATH 221 and MATH 222 may count toward Honors College requirements.

**General Education Requirements:** NS, QLB

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 222 Honors Calculus II**

5 cr. Undergraduate.

Continuation of MATH 221.

**Prerequisites:** a grade of C or better in MATH 221(P) or a grade of B or better in MATH232(P); consent of instructor.

**Course Rules:** Max of 6 cr in combination of MATH 221 and MATH 222 may count toward Honors College requirements.

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 231 Calculus and Analytic Geometry I**

4 cr. Undergraduate.

Limits, derivatives, and graphs of algebraic, trigonometric, exponential, and logarithmic functions; antiderivatives, the definite integral, and the fundamental theorem of calculus, with applications.

**Prerequisites:** a grade of C or better in MATH 115(P); or both Proficiency in Trigonometry (grade of C or better in MATH 117(P), or Level 26 or 36 on Math Placement Test) and Proficiency in Algebra (grade of C or better in MATH 116(P) or MATH 211(P), or Level 35 on Math Placement Test); or Math Placement Level 40.**Course Rules:** No credit for students with credit in MATH 213.**General Education Requirements:** NS, QLB**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 232 Calculus and Analytic Geometry II**

4 cr. Undergraduate.

Continuation of Math 231. Applications of integration, techniques of integration; infinite sequences and series; parametric equations, conic sections, and polar coordinates.

**Prerequisites:** grade of C or better in Math 231(P) or grade of B or better in Math 213(P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 233 Calculus and Analytic Geometry III**

4 cr. Undergraduate.

Continuation of MATH 232. Three-dimensional analytic geometry and vectors; partial derivatives; multiple integrals; vector calculus, with applications.

**Prerequisites:** grade of C or better in MATH 232(P).**Course Rules:** Counts as repeat of MATH 229.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 234 Linear Algebra and Differential Equations**

4 cr. Undergraduate.

Elementary differential equations. Vectors; matrices; linear transformations; quadratic forms; eigenvalues; applications.

**Prerequisites:** grade of C or better in Math 232(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 240 Matrices and Applications**

3 cr. Undergraduate.

Vector spaces, systems of linear equations, matrices, determinants, linear transformations, eigenvalues, eigenvectors; selected topics in applications. Emphasizes basic concepts and concrete examples.

**Prerequisites:** a grade at least C in a MATH or MTHSTAT course numbered 200 or higher; or grade at least C in MATH 115(P); or both Proficiency in Trigonometry (a grade of C or better in MATH 117(P), or Level 26 or 36 on Math Placement Test) and Proficiency in Algebra (a grade of C or better in MATH 116(P) or MATH 211(P), or Level 35 on Math Placement Test); or Math Placement Level 40.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 275 Problem Solving/Critical Thinking for Elementary Education Majors**

3 cr. Undergraduate.

Course provides a strong foundation in the exploration, teaching and communication (oral and written) of mathematical concepts via problem-solving experiences and discussion.

**Prerequisites:** grade of C or better in Math 175(P) or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 276 Algebraic Structures for Elementary Education Majors**

3 cr. Undergraduate.

Topics for K-8 teachers. Basic patterns and rules that govern number systems, geometric transformations, and manipulation of algebraic expressions.

**Prerequisites:** grade of C or better in Math 175(P) or cons instr.**Course Rules:** Counts as repeat of Math 299 w/same topic.**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 277 Geometry for Elementary Education Majors**

3 cr. Undergraduate.

Topics for K-8 teachers. Geometry as measuring tool-congruence, similarity, area, volume, and coordinates; geometry as axiomatic system-definitions, conjectures, proofs, counterexamples; rigid motions, symmetry.

**Prerequisites:** grade of C or better in Math 176(P) or cons instr.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 290 Topics in Mathematics:**

3 cr. Undergraduate.

Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** satisfaction of Quantitative Literacy Part A GER.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2019, Fall 2018, Fall 2017, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2012, Summer 2007, Spring 2007, Summer 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**MATH 305 Introduction to Mathematical and Computational Modeling**

3 cr. Undergraduate/Graduate.

Construction and analysis of discrete and continuous mathematical models in applied, natural, and social sciences. Elements of programming, simulations, case studies from scientific literature.

**Prerequisites:** junior standing; a grade of C or better in MATH 211(P) & one additional 200-level or higher MATH or MTHSTAT course, or grade of C or better in MATH 213(P) or MATH 231(P), or consent of instructor.

**Course Rules:** Counts as repeat of MATH 690(675) with topic 'Adv Math Models with Apps'.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 305G Introduction to Mathematical and Computational Modeling**

3 cr. Undergraduate/Graduate.

Construction and analysis of discrete and continuous mathematical models in applied, natural, and social sciences. Elements of programming, simulations, case studies from scientific literature.

**Prerequisites:** junior standing; a grade of C or better in MATH 211(P) & one additional 200-level or higher MATH or MTHSTAT course, or grade of C or better in MATH 213(P) or MATH 231(P), or consent of instructor.

**Course Rules:** Counts as repeat of MATH 690(675) with topic 'Adv Math Models with Apps'.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 313 Linear Programming and Optimization**

3 cr. Undergraduate/Graduate.

Primal and dual formulations of linear programming problems; simplex and related methods of solution; algorithms for transportation; optimization.

**Prerequisites:** jr st; grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 313G Linear Programming and Optimization**

3 cr. Undergraduate/Graduate.

Primal and dual formulations of linear programming problems; simplex and related methods of solution; algorithms for transportation; optimization.

**Prerequisites:** jr st; grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 315 Mathematical Programming and Optimization**

3 cr. Undergraduate/Graduate.

Introduction to operations research. Network analysis; integer programming; game theory; nonlinear programming; dynamic programming.

**Prerequisites:** jr st, grade of C or better in either Math 234(P) or 240(P), & grade of C or better in either Math 211(P) or 233(P); or cons instr; or grad st.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 315G Mathematical Programming and Optimization**

3 cr. Undergraduate/Graduate.

Introduction to operations research. Network analysis; integer programming; game theory; nonlinear programming; dynamic programming.

**Prerequisites:** jr st, grade of C or better in either Math 234(P) or 240(P), & grade of C or better in either Math 211(P) or 233(P); or cons instr; or grad st.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 318 Topics in Discrete Mathematics**

3 cr. Undergraduate.

Number theory topics related to cryptography; discrete structures including graphs, partial orders, Latin squares and block designs; advanced counting techniques.

**Prerequisites:** a grade of C or better in COMPSCI 317(P) or MATH 341(P).

**Course Rules:** COMPSCI 318 and MATH 318 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 320 Introduction to Differential Equations**

3 cr. Undergraduate/Graduate.

Elementary types and systems of differential equations, series solutions, numerical methods, Laplace transforms, selected applications.

**Prerequisites:** jr st, grade of C or better in both Math 232(P) & 240(P), or grade of C or better in Math/ElecEng 234(P); or grad st.

**Course Rules:** No grad cr in Math Sci.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 320G Introduction to Differential Equations**

3 cr. Undergraduate/Graduate.

Elementary types and systems of differential equations, series solutions, numerical methods, Laplace transforms, selected applications.

**Prerequisites:** jr st, grade of C or better in both Math 232(P) & 240(P), or grade of C or better in Math/ElecEng 234(P); or grad st.

**Course Rules:** No grad cr in Math Sci.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 322 Introduction to Partial Differential Equations**

3 cr. Undergraduate/Graduate.

Partial differential equations of mathematical physics, boundary value problems in heat flow, vibrations, potentials, etc. Solved by Fourier series; Bessel functions and Legendre polynomials.

**Prerequisites:** jr st, Math 320(P), & grade of C or better in Math 233(P); or grad st.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 322G Introduction to Partial Differential Equations**

3 cr. Undergraduate/Graduate.

Partial differential equations of mathematical physics, boundary value problems in heat flow, vibrations, potentials, etc. Solved by Fourier series; Bessel functions and Legendre polynomials.

**Prerequisites:** jr st, Math 320(P), & grade of C or better in Math 233(P); or grad st.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 325 Vector Analysis**

3 cr. Undergraduate/Graduate.

Topics selected from vector algebra; scalar and vector fields; line, surface, and volume integrals; theorems of Green, Gauss, and Stokes; vector differential calculus.

**Prerequisites:** junior standing and a grade of C or better in MATH 233(P); or graduate standing.

**Course Rules:** Previously MATH 321.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 325G Vector Analysis**

3 cr. Undergraduate/Graduate.

Topics selected from vector algebra; scalar and vector fields; line, surface, and volume integrals; theorems of Green, Gauss, and Stokes; vector differential calculus.

**Prerequisites:** junior standing and a grade of C or better in MATH 233(P); or graduate standing.

**Course Rules:** Previously MATH 321.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 341 Seminar: Introduction to the Language and Practice of Mathematics**

3 cr. Undergraduate.

Facility with mathematical language and method of conjecture, proof and counter example, with emphasis on proofs. Topics: logic, sets, functions and others.

**Prerequisites:** a grade of C or better in MATH 115(P); or both Proficiency in Trigonometry (a grade of C or better in MATH 117(P), or Level 26 or 36 on Math Placement Test) and Proficiency in Algebra (grade of C or better in MATH 116(P) or MATH 211(P), or Level 35 on Math Placement Test); or Math Placement Level 40.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 345 Mathematics from a Historical Perspective:**

3 cr. Undergraduate.

Topics from the development of mathematics, such as famous problems, mathematicians, calculating devices; chronological outlines. Significant reading and writing assignments.

**Prerequisites:** a grade of C or better in MATH 212(P) or MATH 232(P) and satisfaction of OWC-A.

**Course Rules:** May be retaken with change in topic to 9 cr max. Additional prerequisites announced in the Schedule of Classes with each offering.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2021, Fall 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 381 Honors Seminar.**

3 cr. Undergraduate.

Significant topics to illustrate to non-mathematicians the characteristic features of mathematical thought. Only H.S. algebra and geometry assumed.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max. Not open for cr toward a major in Math.

**General Education Requirements:** NS

**Last Taught:** Fall 2015, Fall 2013, Spring 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 405 Mathematical Models and Applications**

3 cr. Undergraduate/Graduate.

Modeling techniques for analysis and decision-making in social and life sciences and industry. Deterministic and stochastic modeling. Topics may vary with instructors.

**Prerequisites:** jr st; one of: grade of C or better in Math 211(P), grade of B or better in Math 213(P), or grade of C or better in Math 231(P); & grade of C or better in either Math/ElecEng 234(P) or Math 240(P); or grad st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 405G Mathematical Models and Applications**

3 cr. Undergraduate/Graduate.

Modeling techniques for analysis and decision-making in social and life sciences and industry. Deterministic and stochastic modeling. Topics may vary with instructors.

**Prerequisites:** jr st; one of: grade of C or better in Math 211(P), grade of B or better in Math 213(P), or grade of C or better in Math 231(P); & grade of C or better in either Math/ElecEng 234(P) or Math 240(P); or grad st.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 413 Introduction to Numerical Analysis**

3 cr. Undergraduate/Graduate.

Root finding and solution of nonlinear systems; direct solution of linear systems; interpolation & approximation of functions; least squares; fast Fourier transform; quadrature.

**Prerequisites:** jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 413G Introduction to Numerical Analysis**

3 cr. Undergraduate/Graduate.

Root finding and solution of nonlinear systems; direct solution of linear systems; interpolation & approximation of functions; least squares; fast Fourier transform; quadrature.

**Prerequisites:** jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 415 Introduction to Scientific Computing**

3 cr. Undergraduate/Graduate.

Nonlinear systems; iterative solution of linear systems; initial value problems in ordinary differential equations; boundary value problems in ordinary and partial differential equations.

**Prerequisites:** jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 415G Introduction to Scientific Computing**

3 cr. Undergraduate/Graduate.

Nonlinear systems; iterative solution of linear systems; initial value problems in ordinary differential equations; boundary value problems in ordinary and partial differential equations.

**Prerequisites:** jr st, grade of C or better in Math 233(C), & grade of C or better in Math/ElecEng 234(C); or grad st.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 417 Computational Linear Algebra**

3 cr. Undergraduate/Graduate.

Direct solution of linear systems; iterative solution of linear systems; least squares; eigenvalue problems.

**Prerequisites:** jr st & grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 417G Computational Linear Algebra**

3 cr. Undergraduate/Graduate.

Direct solution of linear systems; iterative solution of linear systems; least squares; eigenvalue problems.

**Prerequisites:** jr st & grade of C or better in Math/ElecEng 234(P) or Math 240(P); or grad st.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 431 Modern Algebra with Applications**

3 cr. Undergraduate/Graduate.

Groups, rings, fields, Boolean algebras with emphasis on their applications to computer science and other areas.

**Prerequisites:** junior standing and a grade of C or better in MATH 212(P) or MATH 232(P); or graduate standing.**Course Rules:** Does not carry graduate credit in math sci.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 431G Modern Algebra with Applications**

3 cr. Undergraduate/Graduate.

Groups, rings, fields, Boolean algebras with emphasis on their applications to computer science and other areas.

**Prerequisites:** junior standing and a grade of C or better in MATH 212(P) or MATH 232(P); or graduate standing.**Course Rules:** Does not carry graduate credit in math sci.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 451 Axiomatic Geometry**

3 cr. Undergraduate/Graduate.

An axiomatic approach to Euclidean and non-Euclidean geometry (historic role of the parallel postulate and models).

**Prerequisites:** junior standing and a grade of C or better in MATH 341(P); or graduate standing.**Course Rules:** Department consent required for graduate credit in math sci.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 451G Axiomatic Geometry**

3 cr. Undergraduate/Graduate.

An axiomatic approach to Euclidean and non-Euclidean geometry (historic role of the parallel postulate and models).

**Prerequisites:** junior standing and a grade of C or better in MATH 341(P); or graduate standing.**Course Rules:** Department consent required for graduate credit in math sci.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 489 Internship in Mathematics, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of mathematics in a business, organizational, educational, governmental, or other appropriate setting.

**Prerequisites:** jr st; 6 cr 300-level or above in math or math stats; 2.5 gpa in the major; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 490 Topics in Mathematics:**

3 cr. Undergraduate/Graduate.

Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** junior standing; grade of C or better in a MATH or MTHSTAT course at the 200 level or above; or graduate standing.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Summer 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 490G Topics in Mathematics:**

3 cr. Undergraduate/Graduate.

Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** junior standing; grade of C or better in a MATH or MTHSTAT course at the 200 level or above; or graduate standing.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Summer 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2018, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2018, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2010, Spring 2008, Fall 2007, Fall 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 511 Symbolic Logic**

3 cr. Undergraduate/Graduate.

First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.

**Prerequisites:** junior standing; PHILOS 212(P) or 6 cr of Math at the 300-level or above; or graduate standing.

**Course Rules:** COMPSCI 511, MATH 511 and PHILOS 511 are jointly offered and count as repeat of each other.

**Last Taught:** Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 511G Symbolic Logic**

3 cr. Undergraduate/Graduate.

First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.

**Prerequisites:** junior standing; PHILOS 212(P) or 6 cr of Math at the 300-level or above; or graduate standing.

**Course Rules:** COMPSCI 511, MATH 511 and PHILOS 511 are jointly offered and count as repeat of each other.

**Last Taught:** Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 523 Advanced Calculus I**

3 cr. Undergraduate/Graduate.

Fundamental notions of sets and functions; limits, continuity; Riemann integral, improper integral; infinite series; uniform convergence; power series; improper integrals with a parameter.

**Prerequisites:** junior standing and a grade of C or better in MATH 232(P) and MATH 341(P); or graduate standing.

**Course Rules:** Previously MATH 521.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 523G Advanced Calculus I**

3 cr. Undergraduate/Graduate.

Fundamental notions of sets and functions; limits, continuity; Riemann integral, improper integral; infinite series; uniform convergence; power series; improper integrals with a parameter.

**Prerequisites:** junior standing and a grade of C or better in MATH 232(P) and MATH 341(P); or graduate standing.

**Course Rules:** Previously MATH 521.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 524 Advanced Calculus II**

3 cr. Undergraduate/Graduate.

Linear functions; differentiation of functions of several variables (implicit functions, Jacobians); change of variable in multiple integrals; integrals over curves, surfaces; Green, Gauss, Stokes theorems.

**Prerequisites:** junior standing, MATH 523(521)(P), a grade of C or better in MATH 233(P), and a grade of C or better in MATH 234(P) or MATH 240(P); or graduate standing.

**Course Rules:** Previously MATH 522.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 524G Advanced Calculus II**

3 cr. Undergraduate/Graduate.

Linear functions; differentiation of functions of several variables (implicit functions, Jacobians); change of variable in multiple integrals; integrals over curves, surfaces; Green, Gauss, Stokes theorems.

**Prerequisites:** junior standing, MATH 523(521)(P), a grade of C or better in MATH 233(P), and a grade of C or better in MATH 234(P) or MATH 240(P); or graduate standing.

**Course Rules:** Previously MATH 522.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 529 Structure of Real and Complex Numbers**

3 cr. Undergraduate/Graduate.

Construction of the real and complex number systems; topology of the real line and the complex plane; sequences and series of complex numbers.

**Prerequisites:** junior standing and MATH 341(P); or graduate standing.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 529G Structure of Real and Complex Numbers**

3 cr. Undergraduate/Graduate.

Construction of the real and complex number systems; topology of the real line and the complex plane; sequences and series of complex numbers.

**Prerequisites:** junior standing and MATH 341(P); or graduate standing.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 531 Modern Algebra**

3 cr. Undergraduate/Graduate.

Integers; groups; rings; fields; emphasis on proofs.

**Prerequisites:** jr st; grade of C or better in Math 341(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 531G Modern Algebra**

3 cr. Undergraduate/Graduate.

Integers; groups; rings; fields; emphasis on proofs.

**Prerequisites:** jr st; grade of C or better in Math 341(P).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 535 Linear Algebra**

3 cr. Undergraduate/Graduate.

Vector spaces; systems of linear equations; linear transformations and matrices; bilinear, quadratic, and Hermitian forms; eigentheory; canonical forms; selected topics. Emphasizes theory and proof.

**Prerequisites:** junior standing, a grade of C or better in MATH 234(P) or MATH 240(P), and a grade of C or better in MATH 341(P); or graduate standing.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 535G Linear Algebra**

3 cr. Undergraduate/Graduate.

Vector spaces; systems of linear equations; linear transformations and matrices; bilinear, quadratic, and Hermitian forms; eigentheory; canonical forms; selected topics. Emphasizes theory and proof.

**Prerequisites:** junior standing, a grade of C or better in MATH 234(P) or MATH 240(P), and a grade of C or better in MATH 341(P); or graduate standing.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 537 Number Theory**

3 cr. Undergraduate/Graduate.

Number theoretic functions; distribution of primes; Diophantine approximation; partitions; additive number theory; quadratic reciprocity.

**Prerequisites:** jr st, grade of C or better in both Math 232(P) & 341(P); or grad st.

**Last Taught:** Spring 2019, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 537G Number Theory**

3 cr. Undergraduate/Graduate.

Number theoretic functions; distribution of primes; Diophantine approximation; partitions; additive number theory; quadratic reciprocity.

**Prerequisites:** jr st, grade of C or better in both Math 232(P) & 341(P); or grad st.

**Last Taught:** Spring 2019, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 551 Elementary Topology**

3 cr. Undergraduate/Graduate.

General theory of point sets in Euclidean spaces, with emphasis on topology of two-dimensional and three-dimensional spaces; elementary notions of metric spaces; applications.

**Prerequisites:** jr st; grades of C or better in Math 233(P) & 341(P); or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 551G Elementary Topology**

3 cr. Undergraduate/Graduate.

General theory of point sets in Euclidean spaces, with emphasis on topology of two-dimensional and three-dimensional spaces; elementary notions of metric spaces; applications.

**Prerequisites:** jr st; grades of C or better in Math 233(P) & 341(P); or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 553 Differential Geometry**

3 cr. Undergraduate/Graduate.

The theory of curves and surfaces by differential methods.

**Prerequisites:** jr st, grade of C or better in all of Math 233(P), 234(P) & 341(P); or grad st.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 553G Differential Geometry**

3 cr. Undergraduate/Graduate.

The theory of curves and surfaces by differential methods.

**Prerequisites:** jr st, grade of C or better in all of Math 233(P), 234(P) & 341(P); or grad st.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 575 High School Mathematics from an Advanced Viewpoint**

3 cr. Undergraduate/Graduate.

Number systems; algebra of polynomials; theory of equations; functions; modeling; geometric measurement; geometric transformations; connections between advanced mathematics and high school topics.

**Prerequisites:** jr st, MATH 341(P) and an additional 6 credits of Math at the 300 level or above; or cons instr; or grad st.

**Course Rules:** Counts as repeat of MATH 690 with similar topic.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 575G High School Mathematics from an Advanced Viewpoint**

3 cr. Undergraduate/Graduate.

Number systems; algebra of polynomials; theory of equations; functions; modeling; geometric measurement; geometric transformations; connections between advanced mathematics and high school topics.

**Prerequisites:** jr st, MATH 341(P) and an additional 6 credits of Math at the 300 level or above; or cons instr; or grad st.

**Course Rules:** Counts as repeat of MATH 690 with similar topic.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 583 Introduction to Probability Models**

3 cr. Undergraduate.

Probability review, Markov chains in discrete and continuous time. Random walks, branching processes, birth and death processes. Queuing theory. Applications to physical sciences, engineering, mathematics.

**Prerequisites:** junior standing; a grade of C or better in MATH 233(P); a grade of C or better in MATH 234(P)/ELECENG 234(P) or in both MATH 240(P) and MATH 320(P); and one calculus-based course in statistics or probability at the 300 level or above; or graduate standing.

**Course Rules:** Previously MATH 571.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 591 Undergraduate Seminar**

1 cr. Undergraduate.

Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May be retaken w/chg in topic to 4 cr max.

**Last Taught:** Spring 2023, Fall 2022, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 599 Capstone Experience**

1 cr. Undergraduate.

Student writes a paper under supervision of an advisor on an approved topic not covered in the student's regular course work.

**Prerequisites:** sr st; cons instr.

**Course Rules:** May be retaken w/chg in topic to 2 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 603 Advanced Engineering Mathematics I**

3 cr. Undergraduate.

Sequences and series, elementary complex analysis; Fourier series; linear and nonlinear ordinary differential equations; matrix theory, elementary functional analysis; elementary solution of partial differential equations.

**Prerequisites:** junior standing; a grade of C or better in both of MATH 233(P) and MATH/ELECENG 234(P); 3 cr Math at 300-level or above; or consent of instructor; or graduate standing.**Course Rules:** Previously MATH 601.**Last Taught:** Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 604 Advanced Engineering Mathematics II**

3 cr. Undergraduate.

Continuation of MATH 603(601). Partial differential equations, Fourier and Laplace transforms, convolutions, special functions, mathematical modeling.

**Prerequisites:** junior standing; MATH 603(601)(P).**Course Rules:** Previously MATH 602.**Last Taught:** Spring 2021, Spring 2019, Spring 2017, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 610 Numerical Solution of Partial Differential Equations**

3 cr. Undergraduate.

Finite difference solution of elliptic boundary value problems and of evolution problems; solution of hyperbolic conservation laws; finite volume methods; finite element methods.

**Prerequisites:** junior standing; MATH 413(P), MATH 415(414)(P), or MATH 417(416)(P); MATH 322(P) or MATH 604(602)(P); or consent of instructor.**Course Rules:** Previously MATH 615.**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 617 Optimization**

3 cr. Undergraduate.

Unconstrained and constrained optimization: linear, nonlinear, and dynamic programming; barrier, penalty, and Lagrangian methods; Karush-Kuhn-Tucker theory, quadratic, and sequential quadratic programming; evolutionary algorithms.

**Prerequisites:** junior standing; MATH 325(321)(P) or MATH 604(602)(P); or graduate standing; or consent of instructor.**Last Taught:** Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 623 Introduction to Analysis I**

3 cr. Undergraduate.

Topology of Euclidean space; continuity; differentiation of real and vector-valued functions; Riemann-Stieltjes integration.

**Prerequisites:** junior standing; a grade of C or better in MATH 233(P), MATH 341(P), and either MATH 234(P) or MATH 240(P); consent of department advisor; or graduate standing.**Course Rules:** Previously MATH 621.**Last Taught:** Fall 2023, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 624 Introduction to Analysis II**

3 cr. Undergraduate.

Continuation of MATH 623(621). Sequences and series of functions; uniform convergence; power series; functions of several variables; inverse and implicit function theorems; differential forms; Stokes' theorem.

**Prerequisites:** junior standing; MATH 623(621)(P) or consent of instructor; or graduate standing.**Course Rules:** Previously MATH 622.**Last Taught:** Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 635 Modern Algebra I**

3 cr. Undergraduate.

Group theory, including normal subgroups, quotients, permutation groups, Sylow's theorems, Abelian groups; field theory; linear algebra over general fields.

**Prerequisites:** junior standing; a grade of C or better in MATH 341(P) and either MATH 234(P) or MATH 240(P); consent of department advisor; or graduate standing.**Course Rules:** Previously MATH 631.**Last Taught:** Fall 2023, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 636 Modern Algebra II**

3 cr. Undergraduate.

Continuation of MATH 635(631). Ring theory, including ideals, quotient rings, Euclidean rings, polynomial rings, unique factorization; modules, including vector spaces, linear transformations, canonical forms; bilinear forms.

**Prerequisites:** junior standing; MATH 635(631)(P) or consent of instructor; or graduate standing.**Course Rules:** Previously MATH 632.**Last Taught:** Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 690 Topics in Mathematics:**

3 cr. Undergraduate/Graduate.

Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st, at least one U/G Math or MthStat course; cons instr; or grad st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 690G Topics in Mathematics:**

3 cr. Undergraduate/Graduate.

Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st, at least one U/G Math or MthStat course; cons instr; or grad st.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 699 Independent Reading**

1-3 cr. Undergraduate.

See Advanced Independent Study. For further information, consult dept chair.

**Prerequisites:** jr st; 2.0 GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Spring 2023, Fall 2022, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 703 Advanced Engineering Mathematics I**

3 cr. Graduate.

Sequences and series, elementary complex analysis; Fourier series; linear and nonlinear ordinary differential equations; matrix theory, elementary functional analysis; elementary solution of partial differential equations.

**Prerequisites:** graduate standing; or junior standing; grade of C or better in both MATH 233(P) and MATH/ELECENG 234(P); 3 cr MATH at 300-level or above; or consent of instructor.

**Course Rules:** No credit for students with credit in MATH 603.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 704 Advanced Engineering Mathematics II**

3 cr. Graduate.

Continuation of MATH 703. Partial differential equations, Fourier and Laplace transforms, convolutions, special functions, mathematical modeling.

**Prerequisites:** graduate standing and MATH 703(P).

**Course Rules:** No credit for students with credit in MATH 604.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 710 Numerical Solution of Partial Differential Equations**

3 cr. Graduate.

Finite difference and finite element methods for boundary value and evolution problems; solution of hyperbolic conservation laws; consistency, convergence, and stability; iterative methods for related linear systems.

**Prerequisites:** graduate standing; MATH 413(P), MATH 415(414)(P), or MATH 417(416)(P); MATH 322(P), MATH 604(602)(P), or MATH 704(P); or consent of instructor.

**Course Rules:** No credit for students with credit in MATH 610(615).

Previously MATH 707.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 717 Optimization**

3 cr. Graduate.

Introduction of numerical algorithms for unconstrained and constrained optimization, nonlinear programming, least-squares problems, quadratic programming, Karush-Kuhn-Tucker theory, penalty and augmented Lagrangian methods.

**Prerequisites:** graduate standing; MATH 313(P), MATH 315(P), MATH 417(P), MATH 604(602)(P), or MATH 704(P); or consent of instructor.

**Course Rules:** No credit for students with credit in MATH 617. Previously MATH 708.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 723 Introduction to Analysis I**

3 cr. Graduate.

Topology of Euclidean space; continuity; differentiation of real and vector-valued functions; Riemann-Stieltjes integration.

**Prerequisites:** graduate standing; consent of instructor.

**Course Rules:** No credit for students with credit in MATH 623(621).

**Last Taught:** Fall 2023, Fall 2022, Spring 1987.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 724 Introduction to Analysis II**

3 cr. Graduate.

Continuation of MATH 723. Sequences and series of functions; uniform convergence; power series; functions of several variables; inverse and implicit function theorems; differential forms; Stokes' theorem.

**Prerequisites:** graduate standing; MATH 723(P) or consent of instructor.

**Course Rules:** No credit for students with credit in MATH 624(622).

Previously MATH 722.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 735 Modern Algebra I**

3 cr. Graduate.

Group theory, including normal subgroups, quotients, permutation groups, Sylow's theorems, Abelian groups; field theory; linear algebra over general fields.

**Prerequisites:** graduate standing.

**Course Rules:** No credit for students with credit in MATH 635(631).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 736 Modern Algebra II**

3 cr. Graduate.

Continuation of MATH 735. Ring theory, including ideals, quotient rings, Euclidean rings, polynomial rings, unique factorization; modules, including vector spaces, linear transformations, canonical forms; bilinear forms.

**Prerequisites:** graduate standing.

**Course Rules:** No credit for students with credit in MATH 636(632).

**Last Taught:** Spring 2023, Fall 2005, Fall 1991, Fall 1988.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 783 Introduction to Probability Models**

3 cr. Graduate.

Probability review, Markov chains in discrete and continuous time. Random walks, branching processes, birth and death processes. Queuing theory. Applications to physical sciences, engineering, mathematics.

**Prerequisites:** graduate standing or consent of instructor; recommended are courses in multivariable calculus, elementary linear algebra and differential equations, and one calculus-based course in statistics or probability at the 300 level or above.

**Course Rules:** No credit for students with credit in MATH 583(571).

**Last Taught:** Spring 2023, Fall 2021, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 799 Seminar in Mathematics:**

1-3 cr. Graduate.

Specific topics and any additional prerequisites announced in Timetable each time course is offered.

**Prerequisites:** grad st & cons instr.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 803 Industrial Mathematics I**

3 cr. Graduate.

Elementary functional analysis, wavelets, control theory. Use of mathematical software emphasized throughout.

**Prerequisites:** graduate standing in natural science discipline; MATH 524(522)(P), MATH 604(602)(P), MATH 624(622)(P), or MATH 704(P).**Course Rules:** Previously MATH 701.**Last Taught:** Fall 2021, Fall 2019, Fall 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 804 Industrial Mathematics II**

3 cr. Graduate.

Optimal control theory, digital signal processing, image processing, linear programming, nonlinear optimization, artificial neural networks. Use of mathematical software emphasized throughout.

**Prerequisites:** graduate standing in natural science discipline; MATH 803(701)(P).**Course Rules:** Previously MATH 702.**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 807 Group Theory and Its Applications to Physics**

3 cr. Graduate.

Representations of discrete and continuous groups, including rotation groups, unitary groups and crystal point and space groups. Symmetries of elementary particles. Molecular orbitals, energy bands.

**Prerequisites:** grad st; Physics 532(P).**Course Rules:** Counts as a repeat of Physics 807.**Last Taught:** Spring 2021, Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 810 Numerical Analysis I**

3 cr. Graduate.

Polynomial interpolation and approximation; numerical differentiation and integration; direct and iterative methods for linear systems; and iterative methods for nonlinear algebraic equations.

**Prerequisites:** graduate standing; MATH 413(P); MATH 523(521)(P), MATH 623(621)(P), or MATH 723(P).**Course Rules:** Previously MATH 715.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 811 Numerical Analysis II**

3 cr. Graduate.

Numerical methods for initial value problems of ordinary differential equations; gradient descent and conjugate gradient methods and preconditioning techniques for solving large scale sparse linear systems; orthogonal polynomials and least squares techniques.

**Prerequisites:** graduate standing; MATH 810(P) or consent of instructor.**Course Rules:** Previously MATH 805.**Last Taught:** Spring 1993, Fall 1985.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 816 Ordinary Differential Equations**

3 cr. Graduate.

Existence and uniqueness theorems for systems of ode; qualitative properties of solutions, including stability and asymptotic behavior; general theory of linear systems; sturm-liouville problems.

**Prerequisites:** graduate standing; MATH 524(522)(P), MATH 624(622)(P), or MATH 724(P).**Course Rules:** No credit for students with credit in MATH 716.**Last Taught:** Fall 2023, Spring 2010, Spring 2006, Spring 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 819 Partial Differential Equations**

3 cr. Graduate.

First and second order equations; characteristics, cauchy problem; classical solutions of linear elliptic, parabolic and hyperbolic equations.

**Prerequisites:** graduate standing; MATH 524(522)(P), MATH 624(622)(P), or MATH 724(P); MATH 320(P).**Course Rules:** No credit for students with credit in MATH 719.**Last Taught:** Fall 2000, Fall 1996, Spring 1996, Fall 1991.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 823 Theory of Functions of a Real Variable I**

3 cr. Graduate.

Equivalence relations; cardinal and ordinal numbers; topology of real line; cantor and borel sets; lebesgue measure on real line; baire and measurable functions; lebesgue integral.

**Prerequisites:** graduate standing; MATH 524(522)(P) and MATH 551(P); or MATH 624(622)(P) or MATH 724(P).**Course Rules:** No credit for students with credit in MATH 711.**Last Taught:** Fall 2023, Fall 2022, Spring 1989.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 824 Theory of Functions of a Real Variable II**

3 cr. Graduate.

Lebesgue integration; modes of convergence; lp spaces; vitali covering and lebesgue density theorems; dini derivatives; differentiation; fundamental theorem of the lebesgue integral calculus; fubini's theorem.

**Prerequisites:** graduate standing; MATH 823(P).**Course Rules:** Previously MATH 712.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 825 Functional Analysis I**

3 cr. Graduate.

Basic notions of functional analysis in hilbert space will be introduced. The concepts will be illustrated by applications to elementary differential and integral equation problems.

**Prerequisites:** graduate standing; MATH 524(522)(P), MATH 624(622)(P), or MATH 724(P).**Course Rules:** No credit for students with credit in MATH 726.**Last Taught:** Fall 2023, Spring 2013, Fall 1998, Fall 1994.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MATH 826 Functional Analysis II**

3 cr. Graduate.

Continuation of MATH 825.

**Prerequisites:** graduate standing and MATH 825(P).**Last Taught:** Spring 1999, Spring 1994, Spring 1993.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**MATH 827 Theory of Functions of a Complex Variable I**

3 cr. Graduate.

Complex numbers; linear transformations; elementary functions; conformal mapping; complex integration; infinite sequences; dirichlet problem; multivalued functions.

**Prerequisites:** graduate standing; MATH 524(522)(P), MATH 623(621)(P), or MATH 723(P).

**Course Rules:** No credit for students with credit in MATH 713.

**Last Taught:** Fall 2022, Spring 1995, Spring 1991, Spring 1987.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 828 Theory of Functions of a Complex Variable II**

3 cr. Graduate.

Continuation of MATH 827.

**Prerequisites:** graduate standing; MATH 827(P).

**Course Rules:** Previously MATH 714.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 835 Abstract Algebra I**

3 cr. Graduate.

Basic course which is prerequisite for all other 800-899 level courses in algebra; groups, rings, fields, galois theory, modules, and categories.

**Prerequisites:** graduate standing; MATH 636(632)(P) or MATH 736(P); consent of instructor.

**Course Rules:** Previously MATH 731.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 836 Abstract Algebra II**

3 cr. Graduate.

Continuation of MATH 835(731).

**Prerequisites:** graduate standing; MATH 835(731)(P).

**Course Rules:** Previously MATH 732.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 843 Homological Algebra I**

3 cr. Graduate.

Modules; diagrams; categories; functors; complexes; cohomology; extensions; resolutions; injective and projective systems; graded modules; homological dimension; spectral sequences; derived functors.

**Prerequisites:** graduate standing; MATH 835(731)(P).

**Last Taught:** Fall 2019, Fall 2015, Fall 2010, Fall 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 844 Homological Algebra II**

3 cr. Graduate.

Continuation of Math 843.

**Prerequisites:** grad st; Math 843(P).

**Last Taught:** Spring 2020, Spring 2016, Spring 2011, Spring 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 853 Differential Geometry**

3 cr. Graduate.

Theory of curves, surfaces, and manifolds in modern terminology. Global results on closed surfaces, geodesics, differential forms and tensor calculus. Introduction to Riemannian geometry.

**Prerequisites:** graduate standing; MATH 524(522)(P), MATH 624(622)(P), or MATH 724(P).

**Course Rules:** Previously MATH 709.

**Last Taught:** Fall 2007, Fall 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 854 Topics in Differential Geometry:**

1-3 cr. Graduate.

Topics may be selected from Riemannian geometry, minimal surfaces and surfaces of prescribed mean curvature, geometric partial differential equations, or related areas of geometry.

**Prerequisites:** graduate standing; consent of instructor.

**Course Rules:** Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered. Retakable with change in topic to 24 cr max. Previously MATH 809.

**Last Taught:** Spring 2008, Spring 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 855 Introductory Topology I**

3 cr. Graduate.

Fundamental properties and examples of topological spaces and continuous functions, including compactness, connectedness, metrizable, completeness, product and quotient spaces, homeomorphisms, embedding, extension, and euclidean spaces.

**Prerequisites:** graduate standing; MATH 524(522)(P), MATH 623(621)(P), or MATH 723(P).

**Course Rules:** Previously MATH 751.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 856 Introductory Topology II**

3 cr. Graduate.

Continuation of MATH 855(751).

**Prerequisites:** graduate standing; MATH 855(751)(P).

**Course Rules:** Previously MATH 752.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 857 Introduction to Algebraic Topology I**

3 cr. Graduate.

Homology theory; complexes and simplicial homology theory; general homology theories; cohomology rings; applications to manifolds, fixed point theorems, etc.

**Prerequisites:** graduate standing; MATH 636(632)(P) or MATH 736(P); MATH 551(P) or MATH 855(751)(P) or consent of instructor.

**Course Rules:** No credit for students with credit in MATH 753.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 858 Introduction to Algebraic Topology II**

3 cr. Graduate.

Continuation of MATH 857.

**Prerequisites:** graduate standing; MATH 857(P).

**Course Rules:** Previously MATH 754.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 883 Theory of Probability**

3 cr. Graduate.

Measure-theoretic foundations; limit-law theorems; weak and strong laws of large numbers; central limit problem; conditional expectations, martingales; stochastic processes.

**Prerequisites:** graduate standing; MATH 824(712)(C).

**Course Rules:** Previously MATH 771.

**Last Taught:** Fall 2023, Spring 2022, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 884 Stochastic Calculus and Applications**

3 cr. Graduate.

Basic stochastic analysis and control theories and techniques; their applications to model and analyze real-world applications in which random noises are inherent.

**Prerequisites:** graduate standing; MATH 883(P) or consent of instructor.

**Course Rules:** Previously MATH 777.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 890 Master's Thesis**

1-3 cr. Graduate.

Course for students completing supervised Master's Thesis.

**Prerequisites:** graduate standing; consent of instructor.

**Course Rules:** Credit(s) count toward Master's degree only if student completes thesis option. Repeatable to 12 cr max. Previously MATH 790.

**Last Taught:** Summer 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 891 Master's Seminar**

1-3 cr. Graduate.

Course for students completing Master's Project.

**Prerequisites:** graduate standing; consent of instructor.

**Course Rules:** May not be taken for credit more than once. Previously MATH 791.

**Last Taught:** Spring 2020, Summer 2018, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 892 Industrial Internship**

1-3 cr. Graduate.

Students earn credits for serving in an industrial internship that involves work of an advanced mathematical nature. They must prepare a report based on the internship.

**Prerequisites:** graduate standing; consent of instructor.

**Course Rules:** Retakable to 6 cr max. Previously MATH 792.

**Last Taught:** Summer 2022, Summer 2021, Summer 2019, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 893 Scientific Computational Laboratory:**

1-2 cr. Graduate.

Scientific programming and numerical study (in Python/Matlab) on numerical algorithms for solving linear and nonlinear systems, data interpolation/fitting, and differential equations (initial and boundary value problems).

**Prerequisites:** graduate standing; MATH 810(715)(C).

**Course Rules:** Retakable with change in topic to 6 cr max. Previously MATH 793.

**Last Taught:** Fall 2022, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 899 Seminar in Advanced Mathematics**

1-3 cr. Graduate.

Specific topics and any additional prerequisites announced in the Schedule of Classes each time course is offered.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Retakable with change in topic to 24 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 901 Topics in Applied Mathematics:**

3 cr. Graduate.

Specific topics in applied mathematics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** graduate standing; consent of instructor.

**Course Rules:** Retakable with change in topic to 24 cr max. Previously MATH 801.

**Last Taught:** Spring 2022, Fall 2021, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 910 Topics in Numerical Analysis:**

3 cr. Graduate.

Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** graduate standing; MATH 810(715)(P).

**Course Rules:** Retakable with change in topic to 24 cr max. Previously MATH 815.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 921 Advanced Topics in Real Analysis:**

3 cr. Graduate.

Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** graduate standing; MATH 824(712)(P).

**Course Rules:** Retakable with change in topic to 24 cr max. Previously MATH 821.

**Last Taught:** Spring 2019, Fall 2017, Fall 2012, Fall 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 941 Advanced Topics in Algebra:**

3 cr. Graduate.

Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** graduate standing; MATH 836(732)(P); consent of instructor.

**Course Rules:** Retakable with change in topic to 24 cr max. Previously MATH 841.

**Last Taught:** Fall 2023, Fall 2022, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 951 Advanced Topics in Topology:**

3 cr. Graduate.

Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** graduate standing; MATH 856(752)(P); consent of instructor.

**Course Rules:** Retakable with change in topic to 24 cr max. Previously MATH 851.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 983 Advanced Topics in Probability:**

3 cr. Graduate.

Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Retakable with change in topic to 24 cr max. Previously MATH 873.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MATH 990 Reading and Research**

1-6 cr. Graduate.

To be arranged with your instructor and department chair.

**Prerequisites:** grad st.

**Course Rules:** Retakable.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Mathematical Statistics (MTHSTAT)

**MTHSTAT 194 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshman. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** NS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 215 Elementary Statistical Analysis**

3 cr. Undergraduate.

Elementary probability theory; descriptive statistics; sampling distributions; basic problems of statistical inference including estimation; tests of statistical hypothesis in both one- and two- sample cases.

**Prerequisites:** satisfaction of Quantitative Literacy Part A GER.

**General Education Requirements:** NS, QLB

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 216 Introduction to Statistical Computing and Data Science**

3 cr. Undergraduate.

Introduction to hands-on data analysis, performed on large, complex and realistic data sets, using a scientific programming language like R.

**Prerequisites:** MTHSTAT 215(P), IND ENG 367(P), BUS ADM 210(P), ECON 210(P), PSYCH 210(P), SOCIOL 261(P), or KIN 270(P); or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 361 Introduction to Mathematical Statistics I**

3 cr. Undergraduate/Graduate.

Probability spaces; discrete and continuous, univariate and multivariate distributions; moments; independence, random sampling, sampling distributions; normal and related distributions; point and interval estimation.

**Prerequisites:** junior standing and MATH 212(P) or MATH 233(P).

**Course Rules:** Not recommended for graduate students in math, or students not planning to take MTHSTAT 362.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 361G Introduction to Mathematical Statistics I**

3 cr. Undergraduate/Graduate.

Probability spaces; discrete and continuous, univariate and multivariate distributions; moments; independence, random sampling, sampling distributions; normal and related distributions; point and interval estimation.

**Prerequisites:** junior standing and MATH 212(P) or MATH 233(P).

**Course Rules:** Not recommended for graduate students in math, or students not planning to take MTHSTAT 362.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 362 Introduction to Mathematical Statistics II**

3 cr. Undergraduate/Graduate.

Testing statistical hypothesis; linear hypothesis; regression; analysis of variance and experimental designs; distribution-free methods; sequential methods.

**Prerequisites:** jr st; MthStat 361(P).

**Course Rules:** Not recom for grad students in math.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 362G Introduction to Mathematical Statistics II**

3 cr. Undergraduate/Graduate.

Testing statistical hypothesis; linear hypothesis; regression; analysis of variance and experimental designs; distribution-free methods; sequential methods.

**Prerequisites:** jr st; MthStat 361(P).

**Course Rules:** Not recom for grad students in math.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 489 Internship in Mathematical Statistics, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of mathematical statistics in a business, organizational, educational, governmental, or other appropriate setting.

**Prerequisites:** jr st; 6 cr 300-level or above in Math or MthStat; 2.5 gpa in the major; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 560 Data Preparation and Exploration**

3 cr. Undergraduate.

Data preparation, including data cleaning, imputation of missing data, detection of outliers, feature selection, data transformations, and data exploration.

**Prerequisites:** junior standing; MTHSTAT 362(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 562 Design of Experiments**

3 cr. Undergraduate/Graduate.

Latin squares; incomplete block designs; factorial experiments; confounding; partial confounding; split-plot experiments; fractional replication.

**Prerequisites:** jr st; MthStat 362(P); Math 234(P) or 240(P).

**Last Taught:** Fall 2008, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 562G Design of Experiments**

3 cr. Undergraduate/Graduate.

Latin squares; incomplete block designs; factorial experiments; confounding; partial confounding; split-plot experiments; fractional replication.

**Prerequisites:** jr st; MthStat 362(P); Math 234(P) or 240(P).

**Last Taught:** Fall 2008, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 563 Regression Analysis**

3 cr. Undergraduate/Graduate.

Straight line, polynomial and multiple regression; multiple and partial correlation; testing hypotheses in regression; residual analysis.

**Prerequisites:** jr st; MthStat 467(P) or 362(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 563G Regression Analysis**

3 cr. Undergraduate/Graduate.

Straight line, polynomial and multiple regression; multiple and partial correlation; testing hypotheses in regression; residual analysis.

**Prerequisites:** jr st; MthStat 467(P) or 362(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 564 Time Series Analysis**

3 cr. Undergraduate/Graduate.

Autocorrelation; spectral density; linear models; forecasting; model identification and estimation.

**Prerequisites:** jr st; MthStat 362(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 564G Time Series Analysis**

3 cr. Undergraduate/Graduate.

Autocorrelation; spectral density; linear models; forecasting; model identification and estimation.

**Prerequisites:** jr st; MthStat 362(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 565 Nonparametric Statistics**

3 cr. Undergraduate/Graduate.

Sign, rank and permutation tests; tests of randomness and independence; methods for discrete data and zeroes and ties; power and efficiency of nonparametric tests.

**Prerequisites:** jr st; MthStat 362(P).

**Last Taught:** Spring 2012, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 565G Nonparametric Statistics**

3 cr. Undergraduate/Graduate.

Sign, rank and permutation tests; tests of randomness and independence; methods for discrete data and zeroes and ties; power and efficiency of nonparametric tests.

**Prerequisites:** jr st; MthStat 362(P).

**Last Taught:** Spring 2012, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 566 Computational Statistics**

3 cr. Undergraduate/Graduate.

Basics of programming and optimization techniques; resampling, bootstrap, and Monte Carlo methods; design and analysis of simulation studies.

**Prerequisites:** jr st; MthStat 362(P) or cons instr.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 566G Computational Statistics**

3 cr. Undergraduate/Graduate.

Basics of programming and optimization techniques; resampling, bootstrap, and Monte Carlo methods; design and analysis of simulation studies.

**Prerequisites:** jr st; MthStat 362(P) or cons instr.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 568 Multivariate Statistical Analysis**

3 cr. Undergraduate/Graduate.

Multivariate normal distribution; Wishart distribution; Hotelling's T<sub>2</sub>; multivariate normal distribution; multivariate analysis of variance; classification problems.

**Prerequisites:** jr st; MthStat 362(P); Math 234(P) or 240(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 568G Multivariate Statistical Analysis**

3 cr. Undergraduate/Graduate.

Multivariate normal distribution; Wishart distribution; Hotelling's T<sup>2</sup>; multivariate normal distribution; multivariate analysis of variance; classification problems.

**Prerequisites:** jr st; MthStat 362(P); Math 234(P) or 240(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 760 Data Preparation and Exploration**

3 cr. Graduate.

Data preparation, including data cleaning, imputation of missing data, detection of outliers, feature selection, data transformations, and data exploration.

**Prerequisites:** graduate standing and MTHSTAT 362(P); or consent of instructor.

**Course Rules:** No cr for students with cr in MTHSTAT 560.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 763 Regression Analysis**

3 cr. Graduate.

Introduction to linear statistical models and methods. Core topics include: simple and multiple linear regression, model checking, variable transformations, outlier diagnostics, variable selection, and generalized linear models such as logistic regression.

**Prerequisites:** graduate standing; MTHSTAT 362(P) or MTHSTAT 467(P); or consent of instructor.

**Course Rules:** No credit for students with credit in MTHSTAT 563.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 764 Time Series Analysis**

3 cr. Graduate.

Introduction to statistical models and methods for time series data analysis. Core topics include: exponential smoothing, ARIMA models, transfer functions and intervention models, state-space models, GARCH models.

**Prerequisites:** graduate standing; MTHSTAT 362(P) or MTHSTAT 467(P); or consent of instructor.

**Course Rules:** No credit for students with credit in MTHSTAT 564.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 766 Computational Statistics**

3 cr. Graduate.

Introduction to statistical computer programming. Main topics include: basics of programming in R or similar language; optimization and root-finding algorithms; Monte Carlo numerical integration; random sample generation; bootstrap and permutation tests; comparative simulation studies.

**Prerequisites:** graduate standing; MTHSTAT 362(P) or MTHSTAT 467(P), or consent of instructor.

**Course Rules:** No credit for students with credit in MTHSTAT 566.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 768 Multivariate Statistical Analysis**

3 cr. Graduate.

Introduction to statistical models and methods for multivariate data analysis. Core topics include: multivariate random vectors and distributions, principal component analysis, canonical correlation analysis, factor analysis, classification and discrimination, clustering techniques, and multidimensional scaling.

**Prerequisites:** graduate standing; MTHSTAT 362(P) or MTHSTAT 467(P), or consent of instructor.

**Course Rules:** No credit for students with credit in MTHSTAT 568.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 869 Advanced Topics in Mathematical Statistics:**

3 cr. Graduate.

Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.

**Prerequisites:** graduate standing and MTHSTAT 762(P).

**Course Rules:** Retakable w/chg in topic to 24 cr max.

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 871 Mathematical Statistics I**

3 cr. Graduate.

Probability and distribution theory; point and interval estimation; testing hypotheses; large sample inference; nonparametric inference; sequential analysis.

**Prerequisites:** graduate standing and MATH 524(522)(C), MATH 624(622)(C), or MATH 724(C).

**Course Rules:** Previously MTHSTAT 761.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MTHSTAT 872 Mathematical Statistics II**

3 cr. Graduate.

Continuation of MTHSTAT 871(761).

**Prerequisites:** graduate standing and MTHSTAT 871(761)(P).

**Course Rules:** Previously MTHSTAT 762.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Mechanical Engineering (MECHENG)

**MECHENG 101 Computational Tools for Engineers**

2 cr. Undergraduate.

Introduction to the use of spreadsheets and equation solvers. Basic engineering and financial applications using these tools.

**Prerequisites:** MATH 231(C) or MATH 221(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 110 Engineering Fundamentals I**

4 cr. Undergraduate.

Introduction to engineering disciplines, problem-solving, visualization, technical communication, and data collection and analysis.

**Prerequisites:** MATH 231(C) or MATH 225(C), admis to College of Engineering & Applied Science.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 111 Engineering Fundamentals II**

3 cr. Undergraduate.

Intermediate problem-solving skills, experimentation, technical communication and introduction to engineering design.

**Prerequisites:** MECHENG 110(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 150 How Things Work: Understanding Technology**

3 cr. Undergraduate.

An introductory course that explains the technology that affects our everyday life. Topics include: automobiles, computers, telephone, radio, television, etc.

**Prerequisites:** none.**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 270 Computer Aided Engineering Laboratory**

2 cr. Undergraduate.

Introduction to mechanical design and analysis using parametric CAE tools. Students obtain a foundation in computer-aided design and analysis.

**Prerequisites:** MECHENG 101(P) and MECHENG 111(P); MATH 231(C) or MATH 231(P).**Course Rules:** Previously MECHENG 370.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 301 Basic Engineering Thermodynamics**

3 cr. Undergraduate.

Basic energy concepts and definitions; First and Second Laws of Thermodynamics; ideal and real gases; thermodynamic properties; introductory cycle analysis.

**Prerequisites:** MATH 233(P) and PHYSICS 209(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 302 Introduction to System Dynamics**

3 cr. Undergraduate.

Modeling and analysis of mechanical, electrical, electromechanical, fluid, and combinations thereof; laboratory experiments.

**Prerequisites:** MECHENG 101(P), PHYSICS 210 (P), and a grade of C or better in ELECENG 234(P) and CIV ENG 202(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 320 Introduction to Fluid Mechanics**

3 cr. Undergraduate.

Basic law of fluid mechanics with applications to engineering problems and with discussion.

**Prerequisites:** CIV ENG 202(P), ELECENG 234(P) and PHYSICS 209(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 321 Basic Heat Transfer**

4 cr. Undergraduate.

Introduction to conduction, convection and radiation heat transfer; heat exchangers; mass transfer analogies; laboratory experiments.

**Prerequisites:** junior standing or greater, MECHENG 301(P) and MECHENG 324(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 323 Fluid Mechanics Laboratory**

1 cr. Undergraduate.

Hands-on experiments involving applications of potential flows, boundary layer flows, gas dynamics, aerodynamics, and fluid power.

**Prerequisites:** junior standing and MECHENG 320(P).**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 324 Introduction to Fluid Mechanics**

4 cr. Undergraduate.

Introduction to fluid mechanics, fluid statics, integral relations for a control volume, dimensional analysis and similarity, viscous flow in ducts, flow past immersed bodies, open-channel flow, a set of hands-on experiments.

**Prerequisites:** junior standing, CIV ENG 202(P), ELECENG 234(P), and MECHENG 301(P).**Course Rules:** Students who have previously completed both MECHENG 320 and MECHENG 323 may not receive credit for MECHENG 324.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 360 Mechanical Design I**

3 cr. Undergraduate.

Kinematic and dynamic analysis of machine members and design applications to linkages, cams, gears, machine balancing and mechanical systems subject to various constraints.

**Prerequisites:** MECHENG 101(P), MECHENG 111(P), and CIV ENG 202(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 364 Advanced Mechanics of Materials and Design of Machine Elements 1**

3 cr. Undergraduate.

Design processes, loads and stresses in 3 dimensions, stress and strain relations, 3 dimensional principle stresses, static failure criteria, fatigue failure criteria, and structural stability applied to the design of Machine Elements like shafts.

**Prerequisites:** CIV ENG 203(P), MATLENG 201(P), MECHENG 110(P), and MECHENG 111(P).**Course Rules:** Students with have previously completed MECHENG 366 may not receive credit for MECHENG 364 and MECHENG 368.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 366 Design of Machine Elements**

4 cr. Undergraduate.

Design of mechanical components under steady and fatigue loads.

Design of columns, shafts, fasteners, springs, bearings, gearing, etc. Mini-design projects.

**Prerequisites:** MECHENG 101(P), MECHENG 111(P); MATLENG 201(P); and CIV ENG 303(P).**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 368 Design of Machine Elements 2**

3 cr. Undergraduate.

Application of static and fatigue failure criterion to the design of machine elements including: mechanical fasteners, fastener patterns, welds and bonding, mechanical springs, bearings, gears, clutches, and brakes.

**Prerequisites:** MECHENG 364(P).

**Course Rules:** Students with credit in MECHENG 366 may not receive credit for MECHENG 364 and MECHENG 368.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 379 Introduction to Mechatronics**

3 cr. Undergraduate.

Basic electrical circuit analysis. Design and analysis of computer-controlled mechanical systems.

**Prerequisites:** junior standing and MECHENG 302(C) or MECHENG 302(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 402 Thermo-Fluid Engineering**

3 cr. Undergraduate.

Analysis and design of systems involving applications of thermodynamics, heat transfer, and fluid mechanics. Applications include heat exchangers, power generation, refrigeration systems, and environmental control.

**Prerequisites:** MECHENG 321(P) and MECHENG 320(P) or MECHENG 324(P).

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 405 Product Realization**

3 cr. Undergraduate/Graduate.

This interdisciplinary course for engineering and art students considers the diverse aspects of the product realization process.

**Prerequisites:** junior standing and advanced to major in an Art & Design program; or BME 305(P), BME 310(P), and BME 325(P); or IND ENG 350(P), IND ENG 360(P), and IND ENG 370(P); or MECHENG 321(C), MECHENG 360(P), MECHENG 368(P), and MECHENG 370(P); or graduate standing and consent of instructor.

**Course Rules:** ART 405 and MECHENG 405 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 405G Product Realization**

3 cr. Undergraduate/Graduate.

This interdisciplinary course for engineering and art students considers the diverse aspects of the product realization process.

**Prerequisites:** junior standing and advanced to major in an Art & Design program; or BME 305(P), BME 310(P), and BME 325(P); or IND ENG 350(P), IND ENG 360(P), and IND ENG 370(P); or MECHENG 321(C), MECHENG 360(P), MECHENG 368(P), and MECHENG 370(P); or graduate standing and consent of instructor.

**Course Rules:** ART 405 and MECHENG 405 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 411 Heat Transfer**

3 cr. Undergraduate/Graduate.

Concepts of heat transfer including conduction, convection, and radiation; steady-state and transient conduction; laminar and turbulent convection; phase changes; black-body and real surface radiation; heat exchangers.

**Prerequisites:** junior standing and MECHENG 321(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 411G Heat Transfer**

3 cr. Undergraduate/Graduate.

Concepts of heat transfer including conduction, convection, and radiation; steady-state and transient conduction; laminar and turbulent convection; phase changes; black-body and real surface radiation; heat exchangers.

**Prerequisites:** junior standing and MECHENG 321(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 415 Modern Thermomanufacturing Processes**

3 cr. Undergraduate/Graduate.

An introduction to thermal management and techniques applied to chemical vapor deposition, welding, thermal spraying, and machining (cutting and grinding).

**Prerequisites:** junior standing, CIV ENG 303(P), and MECHENG 321(P) or equivalent; or consent of instructor.

**Last Taught:** Spring 2010, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 415G Modern Thermomanufacturing Processes**

3 cr. Undergraduate/Graduate.

An introduction to thermal management and techniques applied to chemical vapor deposition, welding, thermal spraying, and machining (cutting and grinding).

**Prerequisites:** junior standing, CIV ENG 303(P), and MECHENG 321(P) or equivalent; or consent of instructor.

**Last Taught:** Spring 2010, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 420 Intermediate Fluid Mechanics**

3 cr. Undergraduate/Graduate.

Navier-Stokes Equations; CFD package training; Potential Flows; Boundary-Layer Approximation; Turbulent Flows; Porous-Media Flows, Turbomachinery Flows.

**Prerequisites:** junior standing and MECHENG 320(P).

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 420G Intermediate Fluid Mechanics**

3 cr. Undergraduate/Graduate.

Navier-Stokes Equations; CFD package training; Potential Flows; Boundary-Layer Approximation; Turbulent Flows; Porous-Media Flows, Turbomachinery Flows.

**Prerequisites:** junior standing and MECHENG 320(P).

**Last Taught:** Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 423 Applied Fluid Mechanics**

3 cr. Undergraduate/Graduate.

Principles of fluid mechanics as applied to elements of fluid machinery, power transmission devices and control systems.

**Prerequisites:** junior standing and MECHENG 320(P).**Last Taught:** Fall 2003, Fall 1997.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 423G Applied Fluid Mechanics**

3 cr. Undergraduate/Graduate.

Principles of fluid mechanics as applied to elements of fluid machinery, power transmission devices and control systems.

**Prerequisites:** junior standing and MECHENG 320(P).**Last Taught:** Fall 2003, Fall 1997.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 425 Aerodynamics of Wind Turbines**

3 cr. Undergraduate/Graduate.

Introductory and intermediate wind turbine aerodynamics; wind and wind turbine interaction in energy transmission.

**Prerequisites:** junior standing and MECHENG 320(P); or consent of instructor.**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 425G Aerodynamics of Wind Turbines**

3 cr. Undergraduate/Graduate.

Introductory and intermediate wind turbine aerodynamics; wind and wind turbine interaction in energy transmission.

**Prerequisites:** junior standing and MECHENG 320(P); or consent of instructor.**Last Taught:** Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 430 Energy Modeling**

3 cr. Undergraduate/Graduate.

Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software.

**Prerequisites:** junior standing or consent of instructor.**Course Rules:** ELECENG 430 and MECHENG 430 are jointly offered and count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 430G Energy Modeling**

3 cr. Undergraduate/Graduate.

Electrical/thermal energy modeling through lectures and hands-on classroom work along with use of energy modeling software.

**Prerequisites:** junior standing or consent of instructor.**Course Rules:** ELECENG 430 and MECHENG 430 are jointly offered and count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 432 Internal Combustion Engines**

3 cr. Undergraduate/Graduate.

Thermodynamic principles of internal combustion engines; cycles, combustion, engine operation; carburation, ignition, performance analysis; engine balancing; super charging.

**Prerequisites:** junior standing and MECHENG 301(P).**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 432G Internal Combustion Engines**

3 cr. Undergraduate/Graduate.

Thermodynamic principles of internal combustion engines; cycles, combustion, engine operation; carburation, ignition, performance analysis; engine balancing; super charging.

**Prerequisites:** junior standing and MECHENG 301(P).**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 434 Air Conditioning System Design**

3 cr. Undergraduate/Graduate.

The design of systems for heating and cooling spaces. Selection and design of central heating, cooling and energy distribution systems.

**Prerequisites:** junior standing, MECHENG 321(P), and IND ENG 210(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 434G Air Conditioning System Design**

3 cr. Undergraduate/Graduate.

The design of systems for heating and cooling spaces. Selection and design of central heating, cooling and energy distribution systems.

**Prerequisites:** junior standing, MECHENG 321(P), and IND ENG 210(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 435 Power Plant Theory and Design**

3 cr. Undergraduate/Graduate.

Application of engineering principles to design and analysis of power-production systems. Fossil fuel, nuclear, and gas-turbine power plants. Alternative power generation. Environmental aspects.

**Prerequisites:** junior standing and MECHENG 301(P).**Last Taught:** Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 435G Power Plant Theory and Design**

3 cr. Undergraduate/Graduate.

Application of engineering principles to design and analysis of power-production systems. Fossil fuel, nuclear, and gas-turbine power plants. Alternative power generation. Environmental aspects.

**Prerequisites:** junior standing and MECHENG 301(P).**Last Taught:** Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 436 Solar Engineering**

3 cr. Undergraduate/Graduate.

Estimation of energy needs for solar heating and cooling systems for buildings; insolation; solar collector/energy storage design; applications to space heating/cooling, water heating.

**Prerequisites:** junior standing and MECHENG 301(P).**Last Taught:** Spring 2016, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 436G Solar Engineering**

3 cr. Undergraduate/Graduate.

Estimation of energy needs for solar heating and cooling systems for buildings; insolation; solar collector/energy storage design; applications to space heating/cooling, water heating.

**Prerequisites:** junior standing and MECHENG 301(P).**Last Taught:** Spring 2016, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**MECHENG 438 Mechanical Engineering Experimentation**

3 cr. Undergraduate.

Training and understanding data acquisition systems; experiment planning; sensor calibration; professional report writing and communication; industrial projects.

**Prerequisites:** IND ENG 369(P); MECHENG 302(P), MECHENG 360(P), and MECHENG 368(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 451 Applied Optics in Engineering**

3 cr. Undergraduate/Graduate.

Principles of geometric and physical optics. Introduction to lasers. Topics from current engineering uses of optics, including measurement systems and laser machining.

**Prerequisites:** senior standing and PHYSICS 210(P); or consent of instructor.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 451G Applied Optics in Engineering**

3 cr. Undergraduate/Graduate.

Principles of geometric and physical optics. Introduction to lasers. Topics from current engineering uses of optics, including measurement systems and laser machining.

**Prerequisites:** senior standing and PHYSICS 210(P); or consent of instructor.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 453 Design Thinking Studio**

3 cr. Undergraduate.

This is an interdisciplinary course that will introduce students to a designer's mindset and will foster key design abilities in an experiential learning environment.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of MECHENG 490 with similar topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 455 Processing of Plastics**

3 cr. Undergraduate/Graduate.

Description of plastics as polymers and polymer composites. Study of various technologies to manufacture plastics. Analytical description of flow and heat transfer in polymers.

**Prerequisites:** MECHENG 320(P) and MECHENG 321(P).

**Last Taught:** Fall 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 455G Processing of Plastics**

3 cr. Undergraduate/Graduate.

Description of plastics as polymers and polymer composites. Study of various technologies to manufacture plastics. Analytical description of flow and heat transfer in polymers.

**Prerequisites:** MECHENG 320(P) and MECHENG 321(P).

**Last Taught:** Fall 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 456 Metal Casting Engineering**

3 cr. Undergraduate/Graduate.

Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MATLENG 456 and MECHENG 456 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 456G Metal Casting Engineering**

3 cr. Undergraduate/Graduate.

Pattern and core design; molding technology; pouring and feeding castings; metallurgy of cast engineering alloys and their foundry practice; casting design.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MATLENG 456 and MECHENG 456 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 457 Engineering Composites**

3 cr. Undergraduate/Graduate.

Study of the structure-property relationships in composite materials. Properties of fibers and other reinforcements. Metal, polymer and ceramic matrix composites.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MECHENG 457 and MATLENG 457(455) are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 457G Engineering Composites**

3 cr. Undergraduate/Graduate.

Study of the structure-property relationships in composite materials. Properties of fibers and other reinforcements. Metal, polymer and ceramic matrix composites.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MECHENG 457 and MATLENG 457(455) are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 460 Nanomaterials and Nanomanufacturing**

3 cr. Undergraduate/Graduate.

Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology.

**Prerequisites:** junior standing and MATLENG 201(P).

**Course Rules:** MATLENG 460 and MECHENG 460 are jointly offered; they count as repeats of each other.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 460G Nanomaterials and Nanomanufacturing**

3 cr. Undergraduate/Graduate.

Structure, properties, processing and manufacture of nanoparticles, nanotubes, nanofibers, bulk nanomaterials, nanocomposites including polymer, metal, ceramic, natural and biocomposites; nanofluidics, nanorheology, nanomachines, and nanotribology.

**Prerequisites:** junior standing and MATLENG 201(P).**Course Rules:** MATLENG 460 and MECHENG 460 are jointly offered; they count as repeats of each other.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 462 Intermediate Design of Machinery**

3 cr. Undergraduate/Graduate.

Consideration of complicated loadings and combined stresses. Design against fatigue. Design and analysis of machine systems. Consideration of special topics in machine element design.

**Prerequisites:** junior standing and MECHENG 366(P).**Last Taught:** Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 462G Intermediate Design of Machinery**

3 cr. Undergraduate/Graduate.

Consideration of complicated loadings and combined stresses. Design against fatigue. Design and analysis of machine systems. Consideration of special topics in machine element design.

**Prerequisites:** junior standing and MECHENG 366(P).**Last Taught:** Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 463 Introduction to Finite Elements**

3 cr. Undergraduate/Graduate.

Generation and assembly of finite element matrices in one- and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow.

**Prerequisites:** junior standing; CIV ENG 203(P), CIV ENG 303(P), or ELECENG 234(P); and MECHENG 311(C), MECHENG 320(C), or MECHENG 321(C).**Course Rules:** CIV ENG 463 and MECHENG 462 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 463G Introduction to Finite Elements**

3 cr. Undergraduate/Graduate.

Generation and assembly of finite element matrices in one- and two-dimensional problems. Modeling and practical applications in solid mechanics, heat transfer and fluid flow.

**Prerequisites:** junior standing; CIV ENG 203(P), CIV ENG 303(P), or ELECENG 234(P); and MECHENG 311(C), MECHENG 320(C), or MECHENG 321(C).**Course Rules:** CIV ENG 463 and MECHENG 462 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 465 Friction and Wear**

3 cr. Undergraduate/Graduate.

Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement.

**Prerequisites:** junior standing and MATLENG 201(P).**Course Rules:** MATLENG 465 and MECHENG 465 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 465G Friction and Wear**

3 cr. Undergraduate/Graduate.

Friction and wear of engineering materials. Effect of environment, surface interactions, lubrication, and material properties. Techniques of analysis and measurement.

**Prerequisites:** junior standing and MATLENG 201(P).**Course Rules:** MATLENG 465 and MECHENG 465 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 466 Design of Composite Structures**

3 cr. Undergraduate/Graduate.

Hands-on design, analysis, and manufacturing of composite fiber reinforced plastic beams, columns, and plates; failure analysis and damage tolerance design of composite structures; bolted and bonded joints.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P)**Course Rules:** CIV ENG 466 and MECHENG 466 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 466G Design of Composite Structures**

3 cr. Undergraduate/Graduate.

Hands-on design, analysis, and manufacturing of composite fiber reinforced plastic beams, columns, and plates; failure analysis and damage tolerance design of composite structures; bolted and bonded joints.

**Prerequisites:** junior standing and CIV ENG 203(P) or CIV ENG 303(P)**Course Rules:** CIV ENG 466 and MECHENG 466 are jointly offered and count as repeats of one another.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 469 Introduction to Biomechanical Engineering**

3 cr. Undergraduate/Graduate.

Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine.

**Prerequisites:** CIV ENG 202(P) and CIV ENG 303 (P); or consent of instructor.**Course Rules:** MECHENG 469 and CIV ENG 469 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 469G Introduction to Biomechanical Engineering**

3 cr. Undergraduate/Graduate.

Mathematical modeling of human body; dynamics of human motion; neuromuscular control human movement; stress analysis of bones and joints; concurrent mechanical problems in medicine.

**Prerequisites:** CIV ENG 202(P) and CIV ENG 303 (P); or consent of instructor.

**Course Rules:** MECHENG 469 and CIV ENG 469 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 472 Introduction to Wind Energy**

3 cr. Undergraduate/Graduate.

Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** ELECENG 472 and MECHENG 472 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 472G Introduction to Wind Energy**

3 cr. Undergraduate/Graduate.

Principles of wind turbines; wind characteristics; rotor dynamics of wind turbines; turbine design and integration; controls and electrical systems; grid connection.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** ELECENG 472 and MECHENG 472 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 473 Applied Dynamics**

3 cr. Undergraduate/Graduate.

Application of dynamic principles to a variety of engineering situations. Behavior of particle systems and rigid body motion in space. Analysis of traffic accidents, shock machines, rockets and satellites, missiles and projectiles, dynamic balancing, gyroscopes and inertial navigation.

**Prerequisites:** junior standing and CIV ENG 202(P).

**Last Taught:** Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 473G Applied Dynamics**

3 cr. Undergraduate/Graduate.

Application of dynamic principles to a variety of engineering situations. Behavior of particle systems and rigid body motion in space. Analysis of traffic accidents, shock machines, rockets and satellites, missiles and projectiles, dynamic balancing, gyroscopes and inertial navigation.

**Prerequisites:** junior standing and CIV ENG 202(P).

**Last Taught:** Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 474 Introduction to Control Systems**

4 cr. Undergraduate/Graduate.

Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.

**Prerequisites:** senior standing, ELECENG 301(P); a grade of C or better in ELECENG 234(P) and CIV ENG 202(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 474G Introduction to Control Systems**

4 cr. Undergraduate/Graduate.

Modeling of continuous systems; stability considerations, analysis and design of feedback control systems in time and frequency domains.

**Prerequisites:** senior standing, ELECENG 301(P); a grade of C or better in ELECENG 234(P) and CIV ENG 202(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 475 Vibrations in Mechanical Design**

3 cr. Undergraduate/Graduate.

Integrated treatment of mathematical modeling and analysis of mechanical systems, analysis of vibrations and performance under different loading conditions.

**Prerequisites:** senior standing, CIV ENG 202(P), and ELECENG 234(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 475G Vibrations in Mechanical Design**

3 cr. Undergraduate/Graduate.

Integrated treatment of mathematical modeling and analysis of mechanical systems, analysis of vibrations and performance under different loading conditions.

**Prerequisites:** senior standing, CIV ENG 202(P), and ELECENG 234(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 476 Introduction to Robotics**

3 cr. Undergraduate/Graduate.

Fundamentals of manipulators, sensors, actuators, end-effectors and product design for automation, computer vision and pattern recognition.

**Prerequisites:** ELECENG 234(P) and MECHENG 360(P).

**Last Taught:** Fall 2023, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 476G Introduction to Robotics**

3 cr. Undergraduate/Graduate.

Fundamentals of manipulators, sensors, actuators, end-effectors and product design for automation, computer vision and pattern recognition.

**Prerequisites:** ELECENG 234(P) and MECHENG 360(P).

**Last Taught:** Fall 2023, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 479 Advanced Mechatronics**

3 cr. Undergraduate/Graduate.

Semiconductor electronics; embedded programming; sensor instrumentation; digital and analog electronics; filtering, actuators; advanced communication protocols; wireless communications; mobile robot modeling for mechatronics application; design, development and feedback control of a mechatronic system.

**Prerequisites:** senior standing or consent of instructor; MECHENG 379(P).

**Last Taught:** Summer 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 479G Advanced Mechatronics**

3 cr. Undergraduate/Graduate.

Semiconductor electronics; embedded programming; sensor instrumentation; digital and analog electronics; filtering, actuators; advanced communication protocols; wireless communications; mobile robot modeling for mechatronics application; design, development and feedback control of a mechatronic system.

**Prerequisites:** senior standing or consent of instructor; MECHENG 379(P).

**Last Taught:** Summer 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 490 Topics in Mechanical Engineering:**

1-3 cr. Undergraduate/Graduate.

Recent theoretical and applied topics in mechanical engineering.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 490G Topics in Mechanical Engineering:**

1-3 cr. Undergraduate/Graduate.

Recent theoretical and applied topics in mechanical engineering.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 496 Senior Design Project**

3 cr. Undergraduate.

Engineering design project in a simulated industrial environment. Student design team works on a problem in collaboration with college faculty and vendors. Formal report writing.

**Prerequisites:** MECHENG 270(P), MECHENG 321(C), MECHENG 360(P), and MECHENG 368(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 542 Introduction to Technology Entrepreneurship**

3 cr. Undergraduate.

Introductory concepts related to technology entrepreneurship including opportunity identification, analysis and new venture planning. Prepares students to recognize and pursue viable technology-based entrepreneurial opportunities.

**Prerequisites:** junior standing and admis to Technology Entrepreneurship Certificate or admis to business or engineering major.

**Course Rules:** Counts as repeat of BUS ADM 495 or MECHENG 490 with same topic. BUS ADM 542 and MECHENG 542 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 543 Introduction to Technology Management and Innovation**

3 cr. Undergraduate.

Introductory concepts related to technology management and technological innovation. Prepares students to evaluate and plan technology commercialization projects.

**Prerequisites:** junior standing and admis to Technology Entrepreneurship Certificate or admis to business or engineering major.

**Course Rules:** Counts as repeat of BUS ADM with the same topic.

BUS ADM 542 and MECHENG 543 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 544 New Product Development**

3 cr. Undergraduate/Graduate.

Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams.

**Prerequisites:** junior standing or greater and admis to Technology Entrepreneurship Certificate; or admis to business or engineering major.

**Course Rules:** Counts as repeat of BUS ADM 795 with same topic.

BUS ADM 544 and MECHENG 544 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 544G New Product Development**

3 cr. Undergraduate/Graduate.

Concepts related to product development including product concept development and testing, and product design. Prepares students to work in cross-functional product development teams.

**Prerequisites:** junior standing or greater and admis to Technology Entrepreneurship Certificate; or admis to business or engineering major.

**Course Rules:** Counts as repeat of BUS ADM 795 with same topic.

BUS ADM 544 and MECHENG 544 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 546 Global Innovation Management**

3 cr. Undergraduate/Graduate.

Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities. Prepares students to manage global collaborative innovation projects.

**Prerequisites:** junior standing or greater and admis to Technology Entrepreneurship Certificate; or admis to business or engineering major.

**Course Rules:** Counts as repeat of BUS ADM 795 with same topic.

BUS ADM 546 and MECHENG 546 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 546G Global Innovation Management**

3 cr. Undergraduate/Graduate.

Concepts related to collaborative innovation in global networks including diverse collaboration models, innovation processes, and capabilities.

Prepares students to manage global collaborative innovation projects.

**Prerequisites:** junior standing or greater and admis to Technology Entrepreneurship Certificate; or admis to business or engineering major.

**Course Rules:** CCounts as repeat of BUS ADM 795 with same topic. BUS ADM 546 and MECHENG 546 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 548 Technology Venturing Project**

3 cr. Undergraduate.

A capstone course for students to demonstrate their knowledge and skills related to technology/product commercialization. Prepares students to lead their (or corporate) technology ventures.

**Prerequisites:** junior standing or greater; admis to Technology Entrepreneurship Certificate or admis to business or engineering major; BUS ADM 543(P) or MECHENG 542(P).

**Course Rules:** BUS ADM 548 and MECHENG 548 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 574 Intermediate Control Systems**

3 cr. Undergraduate/Graduate.

State space; frequency domain methods of modelling, analysis and design of control systems; digital control; and multivariate systems.

**Prerequisites:** senior standing and MECHENG 474(P) or ELECENG 474(P); or graduate standing.

**Course Rules:** ELECENG 574 and MECHENG 574 are jointly offered and count as repeats of each other. Not open for cr to students who have cr in ELECENG 503 or MECHENG 478.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 574G Intermediate Control Systems**

3 cr. Undergraduate/Graduate.

State space; frequency domain methods of modelling, analysis and design of control systems; digital control; and multivariate systems.

**Prerequisites:** senior standing and MECHENG 474(P) or ELECENG 474(P); or graduate standing.

**Course Rules:** ELECENG 574 and MECHENG 574 are jointly offered and count as repeats of each other. Not open for cr to students who have cr in ELECENG 503 or MECHENG 478.

**Last Taught:** Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 584 Biodynamics of Human Motion**

3 cr. Undergraduate/Graduate.

Techniques for collecting, analyzing and interpreting human motion data.

Special emphasis will be placed on performing data analysis using the software package, Matlab.

**Prerequisites:** junior standing, ELECENG 234(P), and CIV ENG 202(C).

**Course Rules:** IND ENG 584 and MECHENG 584 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 584G Biodynamics of Human Motion**

3 cr. Undergraduate/Graduate.

Techniques for collecting, analyzing and interpreting human motion data.

Special emphasis will be placed on performing data analysis using the software package, Matlab.

**Prerequisites:** junior standing, ELECENG 234(P), and CIV ENG 202(C).

**Course Rules:** IND ENG 584 and MECHENG 584 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 699 Independent Study**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** Limited to max of 6 cr applied toward undergrad degree.

**Last Taught:** Spring 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 699G Independent Study**

1-3 cr. Undergraduate/Graduate.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** Limited to max of 6 cr applied toward undergrad degree.

**Last Taught:** Spring 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 700 CEAS Graduate Seminar**

1-3 cr. Graduate.

Seminar in professional ethics, oral and written communication, contemporary social issues, career development, time management, and laboratory safety.

**Prerequisites:** graduate standing.

**Course Rules:** CV ENG 700, COMPSCI 700, ELECENG 700, IND ENG 700, MATLENG 700 and MECHENG 700 are jointly offered and count as repeats of one another

**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 701 Advanced Linear System Analysis**

3 cr. Graduate.

Theory and analysis of linear dynamic systems; discrete and continuous state models; linear algebra for dynamic systems; state transition matrix, numerical methods; and applications.

**Prerequisites:** graduate standing.

**Course Rules:** ELECENG 701 and MECHENG 701 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 702 Advanced Engineering Thermodynamics**

3 cr. Graduate.

Laws of thermodynamics, property relations, equations of state; introduction to statistical and irreversible thermodynamics; applications to perfect gases, perfect crystals, and homogeneous solutions.

**Prerequisites:** graduate standing, MECHENG 301(P) and MECHENG 321(P) or equivalent.

**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 703 Principles of Combustion**

3 cr. Graduate.

Chemical kinetics and thermodynamics, conservation equations for multicomponent reacting systems, detonation, premix, diffusion and turbulent flames.

**Prerequisites:** graduate standing, MECHENG 302(P) and MECHENG 321(P) or equivlanet.

**Last Taught:** Fall 2020, Fall 2018, Spring 2004, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 706 Continuum Mechanics**

3 cr. Graduate.

Basic concepts of the continuum models used in the various fields of mechanics including fluid mechanics, rheology, elasticity, fracture mechanics, and plasticity.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2022, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 707 Transport in Porous Media**

3 cr. Graduate.

Introduction to fluid mechanics in porous media, single- and multi-phase flows, volume averaged transport equations, convection heat transfer, consolidating porous media, volume averaging theory, applications.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Fall 2021, Spring 2020, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 710 Advanced Transport Processes**

2 cr. Graduate.

Vector and tensor analysis of practical engineering problems; basic laws of mass, momentum and energy transport; transport phenomena in porous media reacting and non-reaction media.

**Prerequisites:** graduate standing and MECHENG 321(P) or equivalent.

**Last Taught:** Fall 2023, Spring 2022, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 711 Thermal Radiation and Conduction**

3 cr. Graduate.

Radiative properties of and radiative transfer in absorbing, emitting and scattering media; transient and steady state heat conduction; multi-mode heat transfer applications.

**Prerequisites:** graduate standing and MECHENG 311(P) or MECHENG 321(P).

**Last Taught:** Spring 2022, Fall 2020, Fall 2018, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 712 Convection Heat and Mass Transfer**

3 cr. Graduate.

Conservation equations; laminar developed and developing flows; laminar boundary layers; high speed flows; turbulent flow and heat transfer; natural convection; mass transfer; special engineering applications.

**Prerequisites:** graduate standing and MECHENG 311(P) or MECHENG 321(P).

**Last Taught:** Spring 2019, Fall 2016, Spring 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 714 Energy Transport in Microscale Systems**

3 cr. Graduate.

Introducing thermophysics of microscale systems including statistical, non-equilibrium thermodynamics, particle transport theory, energy carriers in different materials and phases, and applications including mems and nanotechnology.

**Prerequisites:** graduate standing, MECHENG 320(P) and MECHENG 321(P).

**Last Taught:** Fall 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 715 Numerical Methods in Engineering**

3 cr. Graduate.

Differential equation solutions with finite difference and finite volume methods; grid generation technique; finite element methods; applications to solid mechanics, heat transfer, and fluid mechanics.

**Prerequisites:** graduate standing and MATH 413(P) or consent of instructor.

**Last Taught:** Spring 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 718 Nonlinear Control Systems**

3 cr. Graduate.

Advanced concepts and methodologies in modeling and design of nonlinear control systems. Lyapunov theory; describing functions; variable structure control.

**Prerequisites:** graduate standing, ELECENG 474(P) or MECHENG 474(P) or equivalent; ELECENG 701(P) or MECHENG 701(P); or consent of instructor.

**Course Rules:** ELECENG 718 and MECHENG 718 are jointly offered and count as repeats of one another. Not open for credit to students with credit in MECHENG 778.

**Last Taught:** Fall 2021, Fall 2016, Fall 2010, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 721 Fundamentals of Fluid Flow**

3 cr. Graduate.

Inviscid, viscous and compressible flow; potential flow in aerodynamics; analytical solutions of navier-stokes equation; laminar and turbulent boundary layers, jets, wakes, and separating flows; applications.

**Prerequisites:** graduate standing and MECHENG 320(P).

**Last Taught:** Fall 2023, Spring 2022, Spring 2021, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 722 Advanced Fluid Mechanics**

3 cr. Graduate.

Formulations of navier-stokes and energy equations; turbulence models; solutions to wall, free shear layer, and recirculating flows; turbulence energy spectrum; applications to industrial problems.

**Prerequisites:** graduate standing and MECHENG 320(P).

**Last Taught:** Spring 2019, Fall 2016, Spring 2015, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 723 Computational Fluid Dynamics and Heat Transfer**

3 cr. Graduate.

Finite difference methods for solving boundary layer equations, navier-stokes equations, etc. Laminar and turbulent flows.

**Prerequisites:** graduate standing or consent of instructor.

**Last Taught:** Spring 2017, Fall 2015, Spring 2009, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 725 Fluid Power and Turbomachinery**

2 cr. Graduate.

Concept of hydraulic systems; hydraulic motors; valves; hydraulic circuits; pneumatic systems; axial and radial gas turbines, pumps, compressors; steam turbines; hydraulic turbines; wind turbines.

**Prerequisites:** graduate standing and MECHENG 320(P).

**Last Taught:** Fall 2022, Spring 2021, Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 726 Mechanical Vibrations**

3 cr. Graduate.

Free and forced vibrations of multiple degree of freedom systems using modern matrix methods.

**Prerequisites:** graduate standing; MECHENG 475(P) or equivalent.

**Course Rules:** CIV ENG 726 and MECHENG 726 are jointly offered and count as repeats of one another. Students may not receive credit for both courses.

**Last Taught:** Fall 2020, Spring 2019, Spring 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 732 Solidification Processing**

3 cr. Graduate.

Solidification phenomena and its engineering application to metals, semiconductors, ceramics, properties of cast products. Foundry processes.

**Prerequisites:** graduate standing and MATLENG 330(P).

**Course Rules:** MATLENG 732 and MECHENG 732 are jointly offered and count as repeats of one other.

**Last Taught:** Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 733 Sensors and Systems**

3 cr. Graduate.

Physical principles and working of sensors, interfacing, and sensor networks.

**Prerequisites:** graduate standing and ELECENG 305(P) or consent of instructor.

**Course Rules:** BME 733, ELECENG 733, and MECHENG 733 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 760 Dynamic Problems in Design**

3 cr. Graduate.

Analytical methods for solution of typical vibrating and balancing problems encountered in mechanical systems. Special emphasis on methods of suppression and control.

**Prerequisites:** graduate standing and MECHENG 360(P).

**Last Taught:** Spring 2023, Fall 2019, Fall 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 762 Mechanical Systems Analysis**

3 cr. Graduate.

An integrated treatment of mathematical modeling and analysis of mechanical systems. Modeling of machine elements and systems; performance under transient, periodic and random loads.

**Prerequisites:** graduate standing and MECHENG 365(P).

**Last Taught:** Spring 2002, Fall 2000, Spring 1999, Fall 1997.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 765 Mechanical Reliability and Probabilistic Design**

3 cr. Graduate.

Advanced design theory and methodology incorporating probabilistic and statistical concepts. Design of mechanical and structural members for specific reliability and confidence level. Case histories and applications.

**Prerequisites:** graduate standing, MECHENG 360(P) and MECHENG 365(P); or consent of instructor.

**Last Taught:** Spring 2021, Spring 2020, Spring 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 773 Advanced Dynamics**

3 cr. Graduate.

General theory of dynamic behavior from the viewpoint of Lagrangian and Hamiltonian mechanics. Application of energy principles to dynamical analysis of mechanical systems.

**Prerequisites:** graduate standing; MECHENG 580(P) or CIV ENG 580(P); or consent of instructor.

**Course Rules:** CIV ENG 773 and MECHENG 773 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 785 Optimization Methods in Engineering**

3 cr. Graduate.

Optimization as engineering design tool; nonlinear programming; computational techniques for unconstrained and constrained problems; conjugate gradient, sumt, reduced gradient, feasible directions methods; design applications.

**Prerequisites:** graduate standing; ELECENG 234(P), and COMPSCI 151(P) or equivalent.

**Course Rules:** IND ENG 785 and MECHENG 785 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 816 Optimal Control Theory**

3 cr. Graduate.

Analysis and synthesis of discrete and continuous optimal control systems; linear quadratic regulators; dynamic programming and variational methods; applications.

**Prerequisites:** graduate standing, ELECENG 474(P) or MECHENG 474(P) or equivalent, and ELECENG 701(P) or MECHENG 701(P); or consent of instructor.

**Course Rules:** ELECENG 816 and MECHENG 816 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2017, Spring 2011, Fall 2008, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 819 Adaptive Control Theory**

3 cr. Graduate.

Adaptive control systems including mathematical foundations, estimation, model reference adaptive control, self tuning regulators, numerical methods, applications.

**Prerequisites:** graduate standing, ELECENG 474(P) or MECHENG 474(P), and ELECENG 701(P) or MECHENG 701(P); or consent of instructor.

**Course Rules:** ELECENG 819 and MECHENG 819 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2018, Spring 2014, Spring 2009, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MECHENG 880 Bioengineering Seminar**

1 cr. Graduate.

Presentations by bioengineering affiliated faculty, invited speakers, and graduate students.

**Prerequisites:** graduate standing.**Course Rules:** CIV ENG 880, COMPSCI 880, ELECENG 880, IND ENG 880, MATLENG 880, and MECHENG 880 are jointly offered and count as repeats of one another. May be repeated to 3 cr max.**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Summer 2019, Fall 2018, Summer 2017, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 890 Advanced Topics in Mechanical Engineering:**

1-3 cr. Graduate.

Recent theoretical and applied developments in mechanical engineering. Topics selected from areas in thermal-fluid engineering, machine design and controls, and chemical process engineering.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** May be repeated with change in topic to max of 9 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 990 Masters Thesis**

1-9 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Repeatable.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 998 Doctoral Thesis**

1-12 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor and graduate program committee.**Course Rules:** Repeatable.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MECHENG 999 Advanced Independent Study**

1-3 cr. Graduate.

**Prerequisites:** graduate standing and consent of instructor and graduate program committee.**Course Rules:** Repeatable to 15 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Military Science (MIL SCI)

**MIL SCI 101 Military Physical Training and Conditioning I**

1 cr. Undergraduate.

Goal-oriented, small unit approach to physical conditioning and military drill.

**Prerequisites:** none.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MIL SCI 102 Military Physical Training and Conditioning II**

1 cr. Undergraduate.

Goal-oriented, small unit approach to physical conditioning and military drill.

**Prerequisites:** Mil Sci 101(P) or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MIL SCI 110 Leadership and Personal Development**

1 cr. Undergraduate.

Personal challenges and competencies that are critical for effective leadership and the structure of the ROTC.

**Prerequisites:** none.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MIL SCI 120 Introduction to Leadership**

1 cr. Undergraduate.

Issues and competencies that are central to a commissioned officer's responsibilities.

**Prerequisites:** Mil Sci 110(P) or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MIL SCI 201 Military Physical Training and Conditioning III**

1 cr. Undergraduate.

Goal-oriented, small unit approach to physical conditioning and military drill.

**Prerequisites:** Mil Sci 102(P) or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MIL SCI 202 Military Physical Training and Conditioning IV**

1 cr. Undergraduate.

Goal-oriented, small unit approach to physical conditioning and military drill.

**Prerequisites:** Mil Sci 201(P) or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MIL SCI 210 Foundations of Leadership**

2 cr. Undergraduate.

The dimensions of creative and innovative tactical leadership strategies and styles.

**Prerequisites:** Mil Sci 120(P) or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**MIL SCI 220 Foundations of Tactical Leadership**

2 cr. Undergraduate.

The challenges of leading teams in the complex operational environment.

**Prerequisites:** Mil Sci 210(P) or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MIL SCI 301 Military Physical Training and Conditioning V**

1 cr. Undergraduate.

Goal-oriented, small unit approach to physical conditioning and military drill.

**Prerequisites:** Mil Sci 202(P) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MIL SCI 302 Military Physical Training and Conditioning VI**

1 cr. Undergraduate.

Goal-oriented, small unit approach to physical conditioning and military drill.

**Prerequisites:** Mil Sci 301(P) or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MIL SCI 310 Adaptive Team Leadership**

3 cr. Undergraduate.

The study, practice and application of Army leadership in team or squad situations.

**Prerequisites:** Mil Sci 220(P) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MIL SCI 320 Applied Team Leadership**

3 cr. Undergraduate.

The study and practice of small unit tactics at the team and squad level.

**Prerequisites:** Mil Sci 310(P) or cons instr.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MIL SCI 401 Military Physical Training and Conditioning VII**

1 cr. Undergraduate.

Goal-oriented, small unit approach to physical conditioning and military drill.

**Prerequisites:** Mil Sci 302(P) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MIL SCI 402 Military Physical Training and Conditioning VIII**

1 cr. Undergraduate.

Goal-oriented, small unit approach to physical conditioning and military drill.

**Prerequisites:** Mil Sci 401(P) or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MIL SCI 410 Adaptive Leadership**

2 cr. Undergraduate.

Methods of training, mentoring and evaluating subordinate personnel.

**Prerequisites:** Mil Sci 320(P) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MIL SCI 420 Leadership in a Complex World**

2 cr. Undergraduate.

Differences in customs and courtesies, military law, principles of war, COIN, and Rules of Engagement in the face of persistent conflict.

**Prerequisites:** Mil Sci 410(P) or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Music (MUSIC)

**MUSIC 1 Theory Fundamentals**

2 cr. Undergraduate.

Basic music theory covering written proficiency at an introductory level. For music majors needing remedial work. Not for fulfillment of curriculum requirements.

**Prerequisites:** Music major or cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 30 University Community Band**

1 cr. Undergraduate.

A concert band which performs concerts on and off campus. Designed as a continuing playing experience for students.

**Prerequisites:** Music major or minor; or completion of one of the following: MUSIC 30(P), MUSIC 40(P), MUSIC 42(P), MUSIC 81(P), MUSIC 181(P), MUSIC 182(P), MUSIC 334(P), MUSIC 340(P), MUSIC 342(P), or MUSIC 382(P); or consent of instructor.

**Course Rules:** MUSIC 30 and MUSIC 334 may be retaken to combined max of 10 sem. Audition required.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 40 Symphony Band**

1 cr. Undergraduate.

Performs symphonic works for band, performing regularly on campus, statewide tours and national conventions.

**Prerequisites:** Music major or minor; or completion of one of the following: MUSIC 30(P), MUSIC 40(P), MUSIC 42(P), MUSIC 81(P), MUSIC 181(P), MUSIC 182(P), MUSIC 334(P), MUSIC 340(P), MUSIC 342(P), or MUSIC 382(P); or consent of instructor.

**Course Rules:** MUSIC 40 and MUSIC 340 may be retaken to combined max of 10 sem.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 42 Wind Ensemble**

1 cr. Undergraduate.

Performs music ranging from octet to forty players, stressing the single player per part concept, embracing a commitment to quality wind and percussion music. Presents concerts on campus and national tours.

**Prerequisites:** Music major or minor; or completion of one of the following: MUSIC 30(P), MUSIC 40(P), MUSIC 42(P), MUSIC 81(P), MUSIC 181(P), MUSIC 182(P), MUSIC 334(P), MUSIC 340(P), MUSIC 342(P), or MUSIC 382(P); or consent of instructor.

**Course Rules:** MUSIC 42 and MUSIC 342 may be retaken to combined max of 10 sem.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 44 Alta Voce Singers**

1 cr. Undergraduate.

Large choir of students who prefer to sing soprano or alto rehearses & performs music of various styles and cultures. Open to all students by audition.

**Prerequisites:** Music major or minor; or completion of one of the following: MUSIC 44(P), MUSIC 44(P), MUSIC 45(P), MUSIC 52(P), MUSIC 56(P), MUSIC 352(P), or MUSIC 395(P); or consent of instructor.

**Course Rules:** Music 44 & MUSIC 45 may be retaken to combined max of 10 cr. Audition required.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 45 Alta Voce Singers**

3 cr. Undergraduate.

Large choir of students who prefer to sing soprano or alto rehearses & performs music of various styles and cultures. Open to all students by audition.

**Prerequisites:** non-Music major and consent of instructor.

**Course Rules:** Music 44 & 45 may be retaken to combined max of 10 cr. Audition required.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 50 Kameraden Chorus**

1 cr. Undergraduate.

Large choir of students who prefer to sing tenor or bass rehearses & performs music of various styles and historical periods.

**Prerequisites:** Music major or minor; or completion of one of the following: MUSIC 50(P), MUSIC 56(P), MUSIC 350(P), or MUSIC 395(P); or consent of instructor.

**Course Rules:** MUSIC 50 and MUSIC 350 may be retaken to combined max of 10 cr. Open to all students by audition.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 52 Bella Voce**

1 cr. Undergraduate.

Highly select treble choir performs music of various styles, cultures, and historical periods. For students with significant choral experience.

**Prerequisites:** Music major or minor; or completion of one of the following: MUSIC 52(P), MUSIC 56(P), MUSIC 352(P), or MUSIC 395(P); or consent of instructor.

**Course Rules:** MUSIC 52 and MUSIC 352(53) may be retaken to combined max of 10 cr. Audition required.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 56 Concert Chorale**

1 cr. Undergraduate.

This highly select mixed ensemble performs advanced-level music from various styles, cultures, and historical periods and tours annually. Students chosen by competitive audition.

**Prerequisites:** Music major or minor; audition; & cons instr.

**Course Rules:** Music 56 may be retaken to combined max of 10 sem.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 62 University Community Gospel Choir**

1 cr. Undergraduate.

The gospel choir performs the music of the African-American culture in its many styles and genres. Auditions 1st week each sem.

**Prerequisites:** music major or minor; cons instr; audition.

**Course Rules:** May be retaken to max of 10 sem.

**General Education Requirements:** A

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 81 University Community Orchestra**

2 cr. Undergraduate.

Composed primarily of non-music majors and community members; provides a continuing opportunity for rehearsal and performance.

**Prerequisites:** non-music major.

**Course Rules:** Music 81 & 181 may be retaken to combined max of 10 sem.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 100 Introduction to Classical Music**

3 cr. Undergraduate.

A guide to musical enjoyment and understanding, including listening experiences in the various styles and forms of music, through assigned reading, the use of recorded music, sound films and attendance at concerts. Not accepted as part of a Music major.

**Prerequisites:** none.

**General Education Requirements:** A

**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 101 Fundamentals of Music**

3 cr. Undergraduate.

An activities approach to music fundamentals through singing, playing, listening, note reading and creativity for the general university student.

**Prerequisites:** none.

**Course Rules:** Not accepted as part of a Music major.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 102 American Popular Music**

3 cr. Undergraduate.

A guide to understanding and enjoying American popular music from 1900 to the present. Students survey all popular genres and focus on chosen style.

**Prerequisites:** none.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 106 Foundations of Music**

3 cr. Undergraduate.

Engage music major freshman in active discussion in academic and abstract ways necessary to formal music study.

**Prerequisites:** Freshman Music Majors only.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 107 Music Convocation**

0 cr. Undergraduate.

A general assembly of the Department of Music held Fridays at 12:00 pm during the academic year. Includes musical presentations by Music Department faculty and students as well as guest events.

**Prerequisites:** Music majors only.

**Course Rules:** Fee for 1 cr assessed. Satisfactory/Unsatisfactory only.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 108 The Concert Experience**

3 cr. Undergraduate.

Meets, in part, concurrently with the Music Department Convocation (or similar concerts), concentrates on the concert as an event: history, traditions, form, make-up, and interpretation.

**Prerequisites:** none.

**Course Rules:** May not be used as part of the music req for music majors.

**General Education Requirements:** A

**Last Taught:** Spring 2015, Spring 2014, Fall 2013, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 120 Composition Colloquium:**

0 cr. Undergraduate.

Guest lectures and workshops with visiting composers and performers presenting current compositional and aesthetic techniques.

**Prerequisites:** Music major or cons instr.

**Course Rules:** Fee for 1 cr assessed. May be retaken; 4 sem minimum required for composition majors.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 123 Aural Theory I**

1 cr. Undergraduate.

Basic study of sight singing and dictation in diatonic music: solfege, diatonic melodies, primary harmonies, basic rhythms and beat divisions. Aural application of Music 127.

**Prerequisites:** theory placement exam; Music major; Music 127(C) & Music 001(P) with grade of B or better or equiv.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 124 Aural Theory II**

1 cr. Undergraduate.

The singing and dictation of melodies, progressions, and counterpoint with chromatic alteration, modulation, complex rhythmic patterns, 7th chords and inversions. Aural application of Music 128.

**Prerequisites:** Music Major; Music 128(C), 123(P) & 127(P) with grade of 'C-' or better or equiv.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 127 Materials of Theory I**

2 cr. Undergraduate.

Basic study of the elements and diatonic organization of music through music literature.

**Prerequisites:** theory placement exam; Music major; Music 123 (C) & Music 1(P) with grade of 'C-' or better or equiv.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 128 Materials of Theory II**

3 cr. Undergraduate.

Intermediate study of the elements and chromatic organization of music through music literature.

**Prerequisites:** Music Major; Music 124(C) & 123(P); & 127(P) with grade of 'C-' or better or equiv.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 130 Beginning Piano Level I**

3 cr. Undergraduate.

A practical introduction to the piano and musical notation, intended to serve as a sound foundation for further study.

**Prerequisites:** none.

**Course Rules:** May be retaken to max of 6 cr.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 131 Beginning Piano Level II**

3 cr. Undergraduate.

The varying uses of the piano is continued and expanded through reading, technique, interpretation, and theory as based on materials presented in Music 130.

**Prerequisites:** Music 130(P); cons instr.

**Course Rules:** May be retaken to max of 6 cr.

**General Education Requirements:** A

**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 140 Class Voice Level I**

3 cr. Undergraduate.

The group study of singing, including posture, breathing, resonance, range and projection through vocal exercises, varied song repertoire and solo singing.

**Prerequisites:** some knowledge of music helpful but not required; cons instr.

**Course Rules:** May be retaken to max of 4 cr.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 141 Class Voice Level II**

3 cr. Undergraduate.

Continuation for students completing Class Voice Level I including vocal health, posture, breathing, phonation, resonance to include repertoire expansion of jazz, popular, folk and blues.

**Prerequisites:** Music 140(P), or cons instr; & ability to read notation.

**General Education Requirements:** A

**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 142 Class Voice for Musical Theater Level I**

2 cr. Undergraduate.

Fundamentals of vocal technique, including audition preparation and understanding of Musical Theater repertoire and style.

**Prerequisites:** Musical Theatre major and consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 143 Class Voice for Music Theatre Level II**

2 cr. Undergraduate.

Continuation of Class Voice for Musical Theatre Level I including vocal health, posture, breathing, phonation, resonance to include repertoire expansion of jazz, popular, folk and blues.

**Prerequisites:** MUSIC 142(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 150 Beginning Guitar**

3 cr. Undergraduate.

Beginning class instruction on guitar as an accompanying instrument for folk and pop songs. Basic chording, strumming, and finger picking.

**Prerequisites:** none.

**Course Rules:** May be retaken to max of 6 cr.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 151 Intermediate Guitar I**

3 cr. Undergraduate.

Intermediate instruction on guitar. Finger picking, barre chord, bass runs, melody playing, and reading music.

**Prerequisites:** Music 150(345)(P); or cons instr.

**Course Rules:** May be retaken to max of 6 cr.

**General Education Requirements:** A

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 152 Intermediate Guitar II**

3 cr. Undergraduate.

Students learn pieces ranging from popular to classical repertoire further developing position playing, moveable chord forms, solo arrangements and accompaniment, accommodating students at a variety of levels.

**Prerequisites:** Music 151(P), or cons instr; & ability to read notation.

**Course Rules:** May be retaken to max of 6 cr.

**General Education Requirements:** A

**Last Taught:** Fall 2015, Spring 2015, Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 181 University Community Orchestra**

1 cr. Undergraduate.

Provides a continuing opportunity for rehearsal and performance for Music Majors playing secondary instrument(s).

**Prerequisites:** Music major or minor; or completion of one of the following: MUSIC 30(P), MUSIC 40(P), MUSIC 42(P), MUSIC 81(P), MUSIC 181(P), MUSIC 182(P), MUSIC 334(P), MUSIC 340(P), MUSIC 342(P), or MUSIC 382(P); or consent of instructor.

**Course Rules:** MUSIC 81 and MUSIC 181 may be retaken to combined max of 10 sem.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 182 Symphony Orchestra**

1 cr. Undergraduate.

This class will rehearse, study and perform orchestral works from the 18th, 19th and 20th centuries.

**Prerequisites:** Music major or minor; or completion of one of the following: MUSIC 30(P), MUSIC 40(P), MUSIC 42(P), MUSIC 81(P), MUSIC 181(P), MUSIC 182(P), MUSIC 334(P), MUSIC 340(P), MUSIC 342(P), or MUSIC 382(P); or consent of instructor.

**Course Rules:** MUSIC 182 and MUSIC 382 may be retaken to combined max of 10 sem.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 211 General History of Western Music I**

3 cr. Undergraduate.

An introduction to the development of musical styles in western music from the Renaissance through the end of the 18th century.

**Prerequisites:** sophomore standing and two semesters of music theory.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 212 General History of Western Music II**

3 cr. Undergraduate.

The development of western art music from the 19th century to the present and in relation to developments in other art forms.

**Prerequisites:** sophomore standing, three semesters of music theory, and MUSIC 211(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 220 Introduction to Computers and Music**

3 cr. Undergraduate.

Introduction to digital audio, acoustics, psychoacoustics, electronic music composition, and history. Survey and application of software audio production tools through individual creative projects.

**Prerequisites:** Music major; previous experience in computers & music; or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 225 Materials of Theory III**

3 cr. Undergraduate.

Advanced study of the elements and extended chromatic organization of music through music literature.

**Prerequisites:** Music Major; Music 226(C) & Music 124(P), & 128(P) with grade of 'C-' or better or equiv; successful completion of QL-A; or cons instr.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 226 Aural Theory III**

1 cr. Undergraduate.

Continuation of Music 124. Advanced work developing sight-singing and melodic, contrapuntal, and harmonic dictation as related to music literature. Aural application of Music 225.

**Prerequisites:** Music Major; Music 225(C); 124(P) & 128(P) with grade of 'C-' or better or equiv.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 241 Guitar Technique**

1 cr. Undergraduate.

Self-study tools and solutions on performing music accurately to advance and develop skills and expand the relative and absolute sense of touch.

**Prerequisites:** Music major; or cons instr.

**Course Rules:** Counts as repeat of Music 489 w/same topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 242 Fretboard Essentials**

2 cr. Undergraduate.

Music theory as it relates to the guitar fingerboard, including major/minor and harmonized scales, triads, 7th chords and inversions, and arpeggios.

**Prerequisites:** Music major;

**Course Rules:** Counts as repeat of Music 280 w/same topic.

**Last Taught:** Spring 2023, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 244 Basic Diction in Singing**

1 cr. Undergraduate.

Principles of the international phonetic alphabet as they apply to the english language and the singing of assigned vocal repertoire.

**Prerequisites:** admis to Musical Theatre prog; or cons instr.

**Last Taught:** Spring 2022, Spring 2019, Spring 2017, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 245 Basic and Italian Lyric Diction**

1 cr. Undergraduate.

Principles of Basic and Italian lyric diction as taught through the use of the international phonetic alphabet, and the singing of assigned vocal repertoire.

**Prerequisites:** Music major or consent of instructor.

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 246 German and French Lyric Diction**

1 cr. Undergraduate.

Principles of German and French lyric diction as taught through use of the international phonetic alphabet, and the singing of assigned vocal repertoire.

**Prerequisites:** music major or consent of instructor.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 248 Sight-Reading for Guitar I**

1 cr. Undergraduate.

Skill development of sight-reading staff notation for the guitar.

**Prerequisites:** cons instr, Music major.

**Course Rules:** Counts as repeat of Music 280 with same topic.

**Last Taught:** Spring 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 259 Accompanying**

2 cr. Undergraduate.

The piano as an accompanying instrument; study of basic principles of accompanying; sight reading and standard repertoire; transposition; laboratory experience.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Spring 2023, Fall 2022, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 271 Jazz Ensemble**

1 cr. Undergraduate.

A performance and laboratory group for the study of jazz ensemble techniques.

**Prerequisites:** Music major or minor; or cons instr.

**Course Rules:** May be retaken to max of 10 cr.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 274 Guitar Repertoire and Ensemble**

1 cr. Undergraduate.

Exploration of the guitar ensemble and solo literature. Performance laboratory.

**Prerequisites:** music majors or cons instr.

**Course Rules:** May be retaken to combined max of 8 sem.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 275 Keyboard Performance Repertoire**

1-2 cr. Undergraduate.

Section 1: piano. Section 2: organ. An analysis of applied piano or organ literature, including representative works from all periods.

**Prerequisites:** jr st & cons instr.

**Last Taught:** Fall 2023, Fall 2021, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 276 Keyboard Performance Repertoire**

1-2 cr. Undergraduate.

Section 1: piano. Section 2: organ. Continuation of Music 275.

**Prerequisites:** Music 275.

**Last Taught:** Spring 2022, Spring 2017, Spring 2011, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 278 Afro-Caribbean and Latin American Guitar Styles**

2 cr. Undergraduate.

An overview of guitar accompaniment and lead styles used in various Latin-American and Caribbean genres.

**Prerequisites:** cons instr.

**Course Rules:** Counts as repeat of Music 489 with same topic.

**Last Taught:** Fall 2007, Spring 2007, Fall 2006, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 280 Special Studies in Music:**

1-3 cr. Undergraduate.

Specific topic will be announced in the Schedule of Classes when offered.

**Prerequisites:** none.

**Course Rules:** May be retaken for cr when course content is different.

**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 297 Study Abroad:**

1-12 cr. Undergraduate.

Studio and special studies designed to provide relevant course work for a study abroad program in music.

**Prerequisites:** cons instr & acceptance for Study Abroad prog.

**Course Rules:** May be retaken w/chg in topic to max of 12 cr.

**Last Taught:** Spring 2022, Spring 2019, Fall 2018, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 307 General History of Western Music III**

3 cr. Undergraduate.

The development of music at the end of the 19th century and throughout the 20th century, including art music in the western tradition and American popular and vernacular musics.

**Prerequisites:** jr st, 3 sem music theory, Music 211(P) & 212(P).**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 308 Selected Topics in Music History and Literature:**

3 cr. Undergraduate/Graduate.

An in-depth study of selected genres in western music, the composers and their works. Topic to be announced in Schedule of Classes.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P); 4 semesters of music theory.**Course Rules:** May be retaken w/chg in topic to max of 9 cr.**Last Taught:** Spring 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 308G Selected Topics in Music History and Literature:**

3 cr. Undergraduate/Graduate.

An in-depth study of selected genres in western music, the composers and their works. Topic to be announced in Schedule of Classes.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P); 4 semesters of music theory.**Course Rules:** May be retaken w/chg in topic to max of 9 cr.**Last Taught:** Spring 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 309 American Folk and Popular Music**

2 cr. Undergraduate/Graduate.

A survey of American folk and popular music from 1750 to the present. Study of European and African music elements and their intersection in American musical forms.

**Prerequisites:** jr st or cons instr.**General Education Requirements:** A**Last Taught:** Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 309G American Folk and Popular Music**

2 cr. Undergraduate/Graduate.

A survey of American folk and popular music from 1750 to the present. Study of European and African music elements and their intersection in American musical forms.

**Prerequisites:** jr st or cons instr.**General Education Requirements:** A**Last Taught:** Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 310 Introduction to World Musics**

3 cr. Undergraduate/Graduate.

Study of musical genres from selected world cultures with an emphasis on musical sound and structure, and performance in cultural context.

**Prerequisites:** jr st, successful completion of OWC-A (English 102 or equiv); or cons instr.**General Education Requirements:** A, OWCB**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 310G Introduction to World Musics**

3 cr. Undergraduate/Graduate.

Study of musical genres from selected world cultures with an emphasis on musical sound and structure, and performance in cultural context.

**Prerequisites:** jr st, successful completion of OWC-A (English 102 or equiv); or cons instr.**General Education Requirements:** A, OWCB**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 311 Music of the Baroque Era**

3 cr. Undergraduate/Graduate.

A general or topical survey of music from the baroque era in which selected composers and their compositions will be studied.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 311G Music of the Baroque Era**

3 cr. Undergraduate/Graduate.

A general or topical survey of music from the baroque era in which selected composers and their compositions will be studied.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 312 Music of the Classic Era**

3 cr. Undergraduate/Graduate.

A general or topical survey of music from the classical era in which selected composers and their compositions will be studied.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 312G Music of the Classic Era**

3 cr. Undergraduate/Graduate.

A general or topical survey of music from the classical era in which selected composers and their compositions will be studied.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P); 4 sem of music theory.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 313 Music of the Romantic Era**

3 cr. Undergraduate/Graduate.

A general or topical survey of music from the romantic era in which selected composers and their compositions will be studied.

**Prerequisites:** jr st, Music 211(P), 212(P), 307(P); 4 sem music theory.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 313G Music of the Romantic Era**

3 cr. Undergraduate/Graduate.

A general or topical survey of music from the romantic era in which selected composers and their compositions will be studied.

**Prerequisites:** jr st, Music 211(P), 212(P), 307(P); 4 sem music theory.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 314 Music since 1900**

3 cr. Undergraduate/Graduate.

A general or topical survey of music since 1900, in which selected composers and their compositions will be studied.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P); 4 sem music theory.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 314G Music since 1900**

3 cr. Undergraduate/Graduate.

A general or topical survey of music since 1900, in which selected composers and their compositions will be studied.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P); 4 sem music theory.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 317 Introduction to American Music**

3 cr. Undergraduate/Graduate.

Introductory survey of folk, indigenous, popular and art music of the United States.

**Prerequisites:** jr st or grad st.**Last Taught:** Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 317G Introduction to American Music**

3 cr. Undergraduate/Graduate.

Introductory survey of folk, indigenous, popular and art music of the United States.

**Prerequisites:** jr st or grad st.**Last Taught:** Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 321 Counterpoint**

3 cr. Undergraduate.

Introduction to species counterpoint and contrapuntal techniques in music. Study of and exercises in contrapuntally oriented musical structures: passacaglia, chaconne, chorale prelude, canon, and fugue.

**Prerequisites:** Music 230(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 323 Instrumental and Choral Orchestration**

3 cr. Undergraduate.

Techniques of arranging for voice, strings, woodwinds, brass, and percussion. Study of representative scores, demonstrations of suitable arrangements.

**Prerequisites:** Music 225(P), 226(P), & 220(P) for composition majors, (R) for others; or knowledge of computer music notation as determined by instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 326 Advanced Aural Theory**

1 cr. Undergraduate/Graduate.

Continuation of Aural Theory 226 with advanced work in the development of aural skills and dictation in linear and vertical aspects of diatonic, chromatic and atonal music.

**Prerequisites:** jr st; Music 225(P) & 226(P).**Last Taught:** Spring 2015, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 326G Advanced Aural Theory**

1 cr. Undergraduate/Graduate.

Continuation of Aural Theory 226 with advanced work in the development of aural skills and dictation in linear and vertical aspects of diatonic, chromatic and atonal music.

**Prerequisites:** jr st; Music 225(P) & 226(P).**Last Taught:** Spring 2015, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 327 Studio Techniques**

3 cr. Undergraduate/Graduate.

Introduction to recording studio techniques, electronic synthesis, acoustics, psychoacoustics, and mixing. Individual creative projects in electronic music recording and synthesizer studios.

**Prerequisites:** junior standing and music major; or consent of instructor; MUSIC 220(R).**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 327G Studio Techniques**

3 cr. Undergraduate/Graduate.

Introduction to recording studio techniques, electronic synthesis, acoustics, psychoacoustics, and mixing. Individual creative projects in electronic music recording and synthesizer studios.

**Prerequisites:** junior standing and music major; or consent of instructor; MUSIC 220(R).**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 328 Interactive Electronic Music**

3 cr. Undergraduate/Graduate.

Introduction to creative coding for computer music, real-time digital signal processing, multimedia, live performance, interactive projects, and computer assisted composition. Individual projects in electronic music studios.

**Prerequisites:** junior standing, Music major, and MUSIC 327(P); or consent of instructor.**Course Rules:** Previous experience in computers and music recommended.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 328G Interactive Electronic Music**

3 cr. Undergraduate/Graduate.

Introduction to creative coding for computer music, real-time digital signal processing, multimedia, live performance, interactive projects, and computer assisted composition. Individual projects in electronic music studios.

**Prerequisites:** junior standing, Music major, and MUSIC 327(P); or consent of instructor.**Course Rules:** Previous experience in computers and music recommended.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 334 University Community Band**

3 cr. Undergraduate.

A concert band which performs concerts on and off campus. Designed as a continuing playing experience for students.

**Prerequisites:** non-Music major.

**Course Rules:** Music 30 & 334(31) may be retaken to combined max of 10 sem.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 340 Symphony Band**

3 cr. Undergraduate.

Symphony band performs symphonic works for band, performing regularly on campus, statewide tours and national conventions.

**Prerequisites:** non-Music major; audition; & cons instr.

**Course Rules:** Music 40 & 340(41) may be retaken to combined max of 10 sem.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 342 Wind Ensemble**

3 cr. Undergraduate.

Performs music ranging from octet to forty players, stressing the single player per part concept, embracing a commitment to quality wind and percussion music. Presents concerts on campus and national tours.

**Prerequisites:** non-Music major; audition; & cons instr.

**Course Rules:** Music 42 & 342 'Wind Ensemble' may be retaken to combined max of 10 sem.

**Last Taught:** Spring 2023, Spring 2019, Spring 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 348 Sight-Reading for Guitar II**

1 cr. Undergraduate.

Solutions for accurate sight-reading of style-specific repertoire.

**Prerequisites:** Music major or consent of instructor.

**Course Rules:** Counts as repeat of MUSIC 280 with same topic.

**Last Taught:** Fall 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 349 Classical Guitar History and Literature**

3 cr. Undergraduate.

A guided analytical and historical survey of the music, composers, performers, cultures, and literature for guitar from the sixteenth to twenty-first centuries.

**Prerequisites:** jr st; Music 226(P); 248(R), 348(R); cons instr.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 350 Kameraden Chorus**

3 cr. Undergraduate.

Large choir of students who prefer to sing tenor or bass rehearses & performs music of various styles and historical periods.

**Prerequisites:** consent of instructor.

**Course Rules:** MUSIC 50 and MUSIC 350 may be retaken to combined max of 10 credits. Audition required.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 352 Bella Voce**

3 cr. Undergraduate.

Highly select treble choir performs music of various styles, cultures, and historical periods. For students with significant choral experience.

**Prerequisites:** Music major or minor; or completion of one of the following: MUSIC 44(P), MUSIC 45(P), MUSIC 52(P), MUSIC 56(P), MUSIC 352(P), or MUSIC 395(P); or consent of instructor.

**Course Rules:** MUSIC 52 and MUSIC 352 may be retaken to combined max of 10 cr. Audition required.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 353 Conducting**

2 cr. Undergraduate.

Manual technique and rehearsal techniques for both choral and instrumental groups. Class forms a laboratory ensemble.

**Prerequisites:** junior standing, music major, MUSIC 225(P), and consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 354 Instrumental Conducting**

2 cr. Undergraduate.

Continuation of Music 353 with emphasis on conducting techniques: study and analysis of orchestral or wind band scores, with practical application for music education and performance majors.

**Prerequisites:** Music 353(P) or 253(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 357 Choral Conducting**

2 cr. Undergraduate.

Advanced techniques of gesture, score study, style periods and performance practice, rehearsal and vocal techniques.

**Prerequisites:** Music major and MUSIC 353(P); or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 361 Ensemble - Piano**

1-2 cr. Undergraduate.

Opportunity for pianists to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.

**Prerequisites:** consent of instructor.

**Course Rules:** Open to advanced performers on piano. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 365 Ensemble - Woodwind**

1-2 cr. Undergraduate.

Opportunity for woodwind students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.

**Prerequisites:** Music major or minor; or consent of instructor.

**Course Rules:** Open to advanced performers on woodwind. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for credit.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**MUSIC 367 Ensemble - Brass**

1-2 cr. Undergraduate.

Opportunity for brass students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.

**Prerequisites:** Music major or minor; or consent of instructor.

**Course Rules:** Open to advanced performers on brass. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for credit.

**Last Taught:** Fall 2019, Spring 2019, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 369 Ensemble - Strings**

1-2 cr. Undergraduate.

Opportunity for string students to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.

**Prerequisites:** Music major minor; or consent of instructor.

**Course Rules:** Open to advanced performers on stringed instruments. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 370 Chamber Ensemble - Mixed**

1-2 cr. Undergraduate.

Opportunity for students of mixed instrument families to perform and study the chamber literature (duets, trios, quartets, etc) of the last three centuries.

**Prerequisites:** consent of instructor.

**Course Rules:** Open to advanced performers of all instruments. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken for cr.

**Last Taught:** Fall 2023, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 377 Song Literature I: Italy, Germany, France, Great Britain**

2 cr. Undergraduate.

Art songs and vocal literature of Italy, Great Britain, Germany and France through recordings, student performances and lectures. Given alternate years in fall semester.

**Prerequisites:** 2 yrs collegiate voice study & cons instr.

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 378 Song Literature II: United States and Select European Countries**

2 cr. Undergraduate.

Art songs and vocal literature of the United States, European countries, South America, and Spain through recordings, student performances and lectures. Given alternate years in spring semester. Given alternate years in spring semester.

**Prerequisites:** 2 yrs collegiate voice study & cons instr.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 382 Symphony Orchestra**

3 cr. Undergraduate.

This class will rehearse, study and perform orchestral works from the 18th, 19th and 20th centuries.

**Prerequisites:** non-Music major; audition; & cons instr.

**Course Rules:** Music 182 & 382(82) may be retaken to combined max of 10 sem.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 395 Concert Chorale**

3 cr. Undergraduate.

This highly select mixed ensemble performs advanced-level music from various styles, cultures, and historical periods and tours annually. Students chosen by competitive audition.

**Prerequisites:** non-Music major; sophomore standing or higher; cons instr; audition.

**Course Rules:** Music 395(57) may be retaken to combined max of 10 sem.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 402 Jazz Combo**

1-2 cr. Undergraduate.

Study of jazz music's origin, development and styles from early forms to contemporary trends. Emphasis on playing various styles in sequential periods of jazz history.

**Prerequisites:** consent of instructor.

**Course Rules:** May be retaken for cr. Jazz Studies majors enroll for 2 credits; all others enroll for 1 credit.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 409 Folk Music in Contemporary Culture**

3 cr. Undergraduate/Graduate.

American Folk Music and its impact on contemporary culture.

**Prerequisites:** jr st, Music 102(P); or cons instr.

**Course Rules:** Counts as repeat of Music 280/680 with the same topic.

**Last Taught:** Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 409G Folk Music in Contemporary Culture**

3 cr. Undergraduate/Graduate.

American Folk Music and its impact on contemporary culture.

**Prerequisites:** jr st, Music 102(P); or cons instr.

**Course Rules:** Counts as repeat of Music 280/680 with the same topic.

**Last Taught:** Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 410 Topics in World Music:**

3 cr. Undergraduate/Graduate.

Topics vary. Covers the music of a single country, geographic region, or aspects of a particular topic in world music in depth.

**Prerequisites:** jr st & Music 310(P); or grad st or cons instr.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 410G Topics in World Music:**

3 cr. Undergraduate/Graduate.

Topics vary. Covers the music of a single country, geographic region, or aspects of a particular topic in world music in depth.

**Prerequisites:** jr st & Music 310(P); or grad st or cons instr.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 415 Choral Literature Survey**

2 cr. Undergraduate.

A historical overview of choral literature with emphasis on major composers and styles of each period. Repertoire studied is selected from the WSMA Contest list.

**Prerequisites:** junior standing, music major, MUSIC 225(P), and consent of instructor.

**Last Taught:** Spring 2016, Fall 2014, Fall 2013, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 420 Advanced Electronic Music and Sound Art:**

3 cr. Undergraduate/Graduate.

Rotating topics course covering advanced techniques in programming and design for live electro-acoustic music, sound art, multimedia, and instrument building. Individual and group projects utilizing the electronic music studios.

**Prerequisites:** junior standing, music major, and MUSIC 328(P) or consent of instructor.

**Course Rules:** May be retaken with change in topic to 6 cr max. Previous experience in computers and music recommended.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 420G Advanced Electronic Music and Sound Art:**

3 cr. Undergraduate/Graduate.

Rotating topics course covering advanced techniques in programming and design for live electro-acoustic music, sound art, multimedia, and instrument building. Individual and group projects utilizing the electronic music studios.

**Prerequisites:** junior standing, music major, and MUSIC 328(P) or consent of instructor.

**Course Rules:** May be retaken with change in topic to 6 cr max. Previous experience in computers and music recommended.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 421 Materials of Theory IV**

3 cr. Undergraduate/Graduate.

Study and analysis of techniques and styles in contemporary music.

**Prerequisites:** MUSIC 225(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 421G Materials of Theory IV**

3 cr. Undergraduate/Graduate.

Study and analysis of techniques and styles in contemporary music.

**Prerequisites:** MUSIC 225(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 444 Vocal Pedagogy I**

2 cr. Undergraduate/Graduate.

Techniques for training the singing voice derived from the study of vocal anatomy, various pedagogy texts, and the observation and teaching of voice lessons.

**Prerequisites:** jr st & cons instr.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 444G Vocal Pedagogy I**

2 cr. Undergraduate/Graduate.

Techniques for training the singing voice derived from the study of vocal anatomy, various pedagogy texts, and the observation and teaching of voice lessons.

**Prerequisites:** jr st & cons instr.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 445 Vocal Pedagogy II**

2 cr. Undergraduate/Graduate.

Advanced techniques for vocal teaching; including anatomy, pedagogic observation and advanced study of acoustics explore their relationship to voice pedagogy, laryngologists/speech-language pathologists, and vocal pathology.

**Prerequisites:** jr st; Music 444(446)(P); or cons instr.

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 445G Vocal Pedagogy II**

2 cr. Undergraduate/Graduate.

Advanced techniques for vocal teaching; including anatomy, pedagogic observation and advanced study of acoustics explore their relationship to voice pedagogy, laryngologists/speech-language pathologists, and vocal pathology.

**Prerequisites:** jr st; Music 444(446)(P); or cons instr.

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 447 String Pedagogy in the Studio**

2 cr. Undergraduate/Graduate.

Topics include: technique (instrument hold, shifting, vibrato, spiccato, etc.), historical survey (tartini, baillot, auer, flesch, etc). Information delivery techniques, master teacher profile, recent trends.

**Prerequisites:** junior standing and consent of instructor.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 447G String Pedagogy in the Studio**

2 cr. Undergraduate/Graduate.

Topics include: technique (instrument hold, shifting, vibrato, spiccato, etc.), historical survey (tartini, baillot, auer, flesch, etc). Information delivery techniques, master teacher profile, recent trends.

**Prerequisites:** junior standing and consent of instructor.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 448 Piano Pedagogy**

2 cr. Undergraduate.

Techniques for training the elementary level piano student, derived from the study of methods and materials, discussion and guest lectures. Given alternate years.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2022, Fall 2006, Fall 2005, Spring 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 449 Women in Music:**

3 cr. Undergraduate/Graduate.

Women's roles in musical life; their contributions as performers and composers to various musical styles and repertoires; comparison of their activities with those of men. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May be retaken w/chg in topic to max of 6 cr.

**General Education Requirements:** A

**Last Taught:** Spring 2011, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 449G Women in Music:**

3 cr. Undergraduate/Graduate.

Women's roles in musical life; their contributions as performers and composers to various musical styles and repertoires; comparison of their activities with those of men. Specific topics and any additional prerequisites announced in Schedule of Classes each time course is offered.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May be retaken w/chg in topic to max of 6 cr.

**General Education Requirements:** A

**Last Taught:** Spring 2011, Spring 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 450 Introduction to Musicology**

3 cr. Undergraduate/Graduate.

Study of the development of modern musicological methodology and its fields of research including ethnomusicology.

**Prerequisites:** jr st; cons instr.

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 450G Introduction to Musicology**

3 cr. Undergraduate/Graduate.

Study of the development of modern musicological methodology and its fields of research including ethnomusicology.

**Prerequisites:** jr st; cons instr.

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 452 Early Music Ensemble**

1-2 cr. Undergraduate/Graduate.

Vocal and instrumental groups devoted to the study and performance of music from twelfth through the eighteenth century.

**Prerequisites:** Music major or minor; or consent of instructor.

**Course Rules:** Music majors enroll for 1 credit per semester; others for 1 or 2 credits.

**General Education Requirements:** A

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 452G Early Music Ensemble**

1-2 cr. Undergraduate/Graduate.

Vocal and instrumental groups devoted to the study and performance of music from twelfth through the eighteenth century.

**Prerequisites:** Music major or minor; or consent of instructor.

**Course Rules:** Music majors enroll for 1 credit per semester; others for 1 or 2 credits.

**General Education Requirements:** A

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 454 Contemporary Music Ensemble**

1 cr. Undergraduate.

Study of various forms in contemporary music, with an emphasis on indeterminacy and improvisation. Works composed in the course are performed on a concert during the semester.

**Prerequisites:** Music major or minor; or consent of instructor.

**Course Rules:** May be retaken to 4 cr max.

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 457 Opera Theatre**

0-3 cr. Undergraduate/Graduate.

A concentrated study of the literature and techniques for the musical stage.

**Prerequisites:** Music major or minor; or consent of instructor & major teacher.

**Course Rules:** May be retaken to max of 4 semesters. Students not needing cr should enroll for 0 credit; those needing 1-3 credit(s) should enroll for a specific number of credits. Students who enroll for 0 cr will be assessed a fee for 1 credit.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 457G Opera Theatre**

0-3 cr. Undergraduate/Graduate.

A concentrated study of the literature and techniques for the musical stage.

**Prerequisites:** Music major or minor; or consent of instructor & major teacher.

**Course Rules:** May be retaken to max of 4 semesters. Students not needing cr should enroll for 0 credit; those needing 1-3 credit(s) should enroll for a specific number of credits. Students who enroll for 0 cr will be assessed a fee for 1 credit.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 464 Percussion Ensemble**

1 cr. Undergraduate/Graduate.

Provides percussionists with a diverse chamber music experience through performing repertoire of varying instrumentation, styles, and time periods, and developing strong ensemble skills through rehearsal and performance.

**Prerequisites:** music major or consent instructor.

**Course Rules:** Repeatable to 8 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 464G Percussion Ensemble**

1 cr. Undergraduate/Graduate.

Provides percussionists with a diverse chamber music experience through performing repertoire of varying instrumentation, styles, and time periods, and developing strong ensemble skills through rehearsal and performance.

**Prerequisites:** music major or consent instructor.**Course Rules:** Repeatable to 8 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 489 Workshop:**

1-4 cr. Undergraduate/Graduate.

Specific topic announced in the Schedule of Classes.

**Prerequisites:** jr st; additional prereq announced each offering.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 489G Workshop:**

1-4 cr. Undergraduate/Graduate.

Specific topic announced in the Schedule of Classes.

**Prerequisites:** jr st; additional prereq announced each offering.**Last Taught:** Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Studio and special studies designed to provide relevant course work for a study abroad program in music.

**Prerequisites:** jr st; cons instr & acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic to max of 12 cr.**Last Taught:** Spring 2017, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Studio and special studies designed to provide relevant course work for a study abroad program in music.

**Prerequisites:** jr st; cons instr & acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic to max of 12 cr.**Last Taught:** Spring 2017, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 520 Voice Performance in Popular Music Styles**

2 cr. Undergraduate.

Opportunities for singers to engage with various musical styles within the genre of Contemporary Commercial Music.

**Prerequisites:** Music major and concurrently enrolled in applied voice lessons; or consent of instructor.**Last Taught:** Spring 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 521 Popular Music Ensemble**

1-2 cr. Undergraduate/Graduate.

Allows students to perform music from pop, rock, and related genres in an ensemble environment. Students will be assigned to small ensembles (duets, trios, quartets, etc) and perform as soloist, backup, and instrumental accompanist.

**Prerequisites:** Music major or consent of instructor.**Course Rules:** Repeatable to 8 cr max.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 521G Popular Music Ensemble**

1-2 cr. Undergraduate/Graduate.

Allows students to perform music from pop, rock, and related genres in an ensemble environment. Students will be assigned to small ensembles (duets, trios, quartets, etc) and perform as soloist, backup, and instrumental accompanist.

**Prerequisites:** Music major or consent of instructor.**Course Rules:** Repeatable to 8 cr max.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 553 Advanced Conducting I**

2 cr. Undergraduate/Graduate.

Advanced study and analysis of conducting techniques. Score reading and interpretation of masterpieces from the standard repertoire.

**Prerequisites:** sr st & cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 553G Advanced Conducting I**

2 cr. Undergraduate/Graduate.

Advanced study and analysis of conducting techniques. Score reading and interpretation of masterpieces from the standard repertoire.

**Prerequisites:** sr st & cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 554 Advanced Conducting II**

2 cr. Undergraduate/Graduate.

Continuation of Music 553.

**Prerequisites:** sr st, Music 553(P) & cons instr.**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 554G Advanced Conducting II**

2 cr. Undergraduate/Graduate.

Continuation of Music 553.

**Prerequisites:** sr st, Music 553(P) & cons instr.**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 559 The Wind Band: Its History and Literature**

3 cr. Undergraduate/Graduate.

Examination of origins and historical significance of the wind band, including a survey of its instrumentation and literature.

**Prerequisites:** jr st; cons instr.**Last Taught:** Fall 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 559G The Wind Band: Its History and Literature**

3 cr. Undergraduate/Graduate.

Examination of origins and historical significance of the wind band, including a survey of its instrumentation and literature.

**Prerequisites:** jr st; cons instr.**Last Taught:** Fall 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 561 Advanced Chamber Music**

1-3 cr. Undergraduate/Graduate.

Upper level undergraduate and graduate students to perform and study the chamber literature (duets, trios, quartets, etc.)

**Prerequisites:** Music major or minor; or consent of instructor.

**Course Rules:** Open to performance majors. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken to max of 9 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 561G Advanced Chamber Music**

1-3 cr. Undergraduate/Graduate.

Upper level undergraduate and graduate students to perform and study the chamber literature (duets, trios, quartets, etc.)

**Prerequisites:** Music major or minor; or consent of instructor.

**Course Rules:** Open to performance majors. May not be substituted for the required credits in applied music, band or orchestra except by special permission. May be retaken to max of 9 cr.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 604 Business for Performing Artists**

3 cr. Undergraduate/Graduate.

Students will be guided through business subjects of the performing industry such as marketing, tax preparation, branding, resume writing, and website construction.

**Prerequisites:** junior standing and admitted to PSOA performance program (Music, Dance, or Theatre).

**Course Rules:** Counts as a repeat of MUSIC 680 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 604G Business for Performing Artists**

3 cr. Undergraduate/Graduate.

Students will be guided through business subjects of the performing industry such as marketing, tax preparation, branding, resume writing, and website construction.

**Prerequisites:** junior standing and admitted to PSOA performance program (Music, Dance, or Theatre).

**Course Rules:** Counts as a repeat of MUSIC 680 with similar topic.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 611 Music of the Medieval Era**

3 cr. Undergraduate/Graduate.

A general or topical survey of medieval music, including the study of representative works, medieval theory and performance practices.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P), & 4 sem Music theory.

**Last Taught:** Spring 2012, Fall 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 611G Music of the Medieval Era**

3 cr. Undergraduate/Graduate.

A general or topical survey of medieval music, including the study of representative works, medieval theory and performance practices.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P), & 4 sem Music theory.

**Last Taught:** Spring 2012, Fall 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 612 Music of the Renaissance and Early Modern Era**

3 cr. Undergraduate/Graduate.

A general or topical survey of renaissance and early modern music, including the study of representative works, renaissance theory and performance practices.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P) & 4 sem Music theory.

**Last Taught:** Fall 2016, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 612G Music of the Renaissance and Early Modern Era**

3 cr. Undergraduate/Graduate.

A general or topical survey of renaissance and early modern music, including the study of representative works, renaissance theory and performance practices.

**Prerequisites:** jr st; Music 211(P), 212(P), 307(P) & 4 sem Music theory.

**Last Taught:** Fall 2016, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 620 Percussion History, Literature and Pedagogy**

2 cr. Undergraduate/Graduate.

Survey of the history and development of percussion instruments and repertoire from multiple cultures from the 1500s to present day, along with effective teaching techniques and the development of materials for a professional career.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 620G Percussion History, Literature and Pedagogy**

2 cr. Undergraduate/Graduate.

Survey of the history and development of percussion instruments and repertoire from multiple cultures from the 1500s to present day, along with effective teaching techniques and the development of materials for a professional career.

**Prerequisites:** junior standing.

**Last Taught:** Fall 2023, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 659 Junior Recital**

0 cr. Undergraduate.

Independent supervised preparation and performance on recital program as determined by performance instructor.

**Prerequisites:** jr st; cons instr.

**Course Rules:** Fee for 1 cr assessed.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 660 Senior Recital:**

0-2 cr. Undergraduate.

Independent supervised preparation and performance in recital to fulfill degree requirements.

**Prerequisites:** sr st & recital hearing before area faculty.

**Course Rules:** Students in the multiple woodwinds performance major may fulfill the requirement for two senior recitals (1 cr for primary instrument and 2 cr for secondary instrument) by enrolling in two sections of Music 660 during the same sem. Students not needing cr should enroll for 0 cr; those needing 1-2 cr should enroll for a specific number of cr. Students who enroll for 0 cr will be assessed fee for 1 credit. May be retaken to max of 3 cr or two sem.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 680 Special Studies in Music:**

1-3 cr. Undergraduate/Graduate.  
Specific topic will be announced in Schedule of Classes when offered.  
**Prerequisites:** jr st or cons instr.  
**Course Rules:** May be retaken w/chg in topic to max of 9 cr.  
**Last Taught:** Fall 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 680G Special Studies in Music:**

1-3 cr. Undergraduate/Graduate.  
Specific topic will be announced in Schedule of Classes when offered.  
**Prerequisites:** jr st or cons instr.  
**Course Rules:** May be retaken w/chg in topic to max of 9 cr.  
**Last Taught:** Fall 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 691 Senior Thesis**

2 cr. Undergraduate/Graduate.  
**Prerequisites:** sr st. Not available for grad cr at this time.  
**Last Taught:** Fall 2015, Fall 2012.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 691G Senior Thesis**

2 cr. Undergraduate/Graduate.  
**Prerequisites:** sr st. Not available for grad cr at this time.  
**Last Taught:** Fall 2015, Fall 2012.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 693 Apprenticeship:**

1-4 cr. Undergraduate/Graduate.  
Open to select advanced students who will work as paraprofessionals under the guidance of a program designed jointly by the student, the music department curriculum committee, and a professional mentor approved by the curriculum committee.  
**Prerequisites:** jr st; cons curric comm.  
**Last Taught:** Fall 2021, Spring 2021.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 693G Apprenticeship:**

1-4 cr. Undergraduate/Graduate.  
Open to select advanced students who will work as paraprofessionals under the guidance of a program designed jointly by the student, the music department curriculum committee, and a professional mentor approved by the curriculum committee.  
**Prerequisites:** jr st; cons curric comm.  
**Last Taught:** Fall 2021, Spring 2021.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 699 Advanced Independent Work (Undergraduate)**

1-3 cr. Undergraduate.  
Enroll for a specific number of credits.  
**Prerequisites:** cons dept chair.  
**Course Rules:** May be retaken for cr.  
**Last Taught:** Spring 2023, Fall 2022, Summer 2022, Fall 2021.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 703 Graduate Theory Review**

3 cr. Graduate.  
A course for graduate students to include tonal/atonal theory, keyboard harmony, sight singing and ear training. The course may not be taken to fulfill a graduate music degree requirement.  
**Prerequisites:** grad st; recom of theory faculty.  
**Last Taught:** Fall 2023, Fall 2019, Fall 2018, Fall 2017.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 704 Graduate Music History**

3 cr. Graduate.  
An intensive study of selected musical styles and representative repertory in the western tradition from the middle ages through the present, with a focus on listening and score study, the comparison of musical styles from different periods, and discussion of important historical trends.  
**Prerequisites:** grad st; recom of music history faculty.  
**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 710 Graduate Studies in Music**

3 cr. Graduate.  
Bibliography and methods for research and paper writing in the field of music.  
**Prerequisites:** grad st.  
**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 711 Graduate Seminar in Music History:**

3 cr. Graduate.  
An in-depth study of selected musical works, focusing on a close analysis of scores, historical research, and paper writing.  
**Prerequisites:** graduate standing and MUSIC 710 or MUS ED 710(P).  
**Course Rules:** Specific topics and any additional prerequisites announced in schedule of classes each time course is offered. May be repeated with change in topic to max of 9 cr.  
**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 715 Choral Literature**

3 cr. Graduate.  
In-depth investigation of choral repertoire from 1450 to present day, including a study of major genres, composers, styles, and performance practice.  
**Prerequisites:** grad st.  
**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2016.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 718 Violin and Viola Pedagogy Level I**

2 cr. Graduate.  
A systematic methodology for taking a student through the formative stages of violin and viola playing. Lecture classes, observation or group and individual lessons, supervised teaching in lab setting.  
**Prerequisites:** grad st or cons instr; Music major.  
**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 719 Violin and Viola Pedagogy Level II**

2 cr. Graduate.

A systematic methodology for taking a student from the formative stages of violin and viola playing through the technically and musically more advanced levels. Lecture classes, observation of group and individual instruction, supervised teaching in lab setting.

**Prerequisites:** grad st; music major; Music 718(P); or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 720 Violin Pedagogy Level III**

2 cr. Graduate.

Advanced emphasis on the teaching of advanced scales, significant violin etudes and major repertoire. Lecture and demonstration classes, observation of group and individual instruction, supervised teaching in lab setting.

**Prerequisites:** grad st; Music 719(P); or cons instr.**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 721 Viola Pedagogy Level III**

2 cr. Graduate.

Advanced emphasis on the teaching of advanced scales, significant etudes (Kreutzer & Campagnoli), orchestral excerpts as teaching etudes, and selected study of advanced viola repertoire. Lecture and demonstration classes, observation of group and individual lessons, supervised teaching in lab setting.

**Prerequisites:** grad st; Music 719(P); or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 722 Cello Pedagogy Level I**

2 cr. Graduate.

A systematic methodology for taking a student from the first lessons through the formative stage of cello playing. Lecture classes, observation of group and individual lessons, supervised teaching in lab setting.

**Prerequisites:** grad st or cons instr.**Last Taught:** Fall 2021, Fall 2018, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 723 Cello Pedagogy Level II**

2 cr. Graduate.

A systematic methodology for taking a student from the formative stage of cello playing through the technically and musically more advanced level. Specific skills include how to teach vibrato and shifting. Lecture classes, observation of group and individual instruction, supervised teaching in lab setting.

**Prerequisites:** grad st; Music 722(P); or cons instr.**Last Taught:** Fall 2022, Spring 2019, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 724 Cello Pedagogy Level III**

2 cr. Graduate.

Advanced emphasis on the teaching of advanced scales, significant etudes and selected study of major repertoire. Lecture and demonstration classes; observation of group and individual instruction, supervised teaching in a lab setting.

**Prerequisites:** grad st; Music 723(P); or cons instr.**Last Taught:** Spring 2023, Fall 2019, Fall 2018, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 730 University Community Band**

1 cr. Graduate.

A concert band that performs concerts on and off campus. Designed as a continuing playing experience for students. Music 730 may be retaken to combined max of 6 sem.

**Prerequisites:** grad st; cons instr; audition.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 731 Contemporary Composition Techniques**

3 cr. Graduate.

Contemporary compositional techniques; their theoretical, aesthetic, and historical relationship. Advanced analysis of scores utilizing these techniques.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 732 Score Reading**

3 cr. Graduate.

Reading at the piano from full score. Procedure and practice in piano reduction are studied and applied. The classical, romantic, and contemporary periods are emphasized.

**Prerequisites:** grad st; some ability at key board.**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 740 Symphony Band**

1 cr. Graduate.

Performs symphonic works for band, performing regularly on campus, statewide tours and national conventions.

**Prerequisites:** grad st & cons instr.**Course Rules:** For Music majors with advanced playing experience.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 741 Guitar Technique**

1 cr. Graduate.

Self-study tools and solutions on performing music accurately to advance and develop skills and expand the relative and absolute sense of touch.

**Prerequisites:** graduate standing or consent of instructor.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 742 Fretboard Essentials**

2 cr. Graduate.

Music theory as it relates to the guitar fingerboard, including major/minor and harmonized scales, triads, 7th chords and inversions, and arpeggios.

**Prerequisites:** grad st; or cons instr.**Last Taught:** Spring 2023, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 744 Graduate Theory Seminar**

3 cr. Graduate.

Current theoretical approaches to a wide range of musical styles.

**Prerequisites:** grad st; diagnostic test or Music 703 with grade of B or better.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSIC 749 Classical Guitar History and Literature**

3 cr. Graduate.

A guided analytical and historical survey of the music, composers, performers, cultures, and literature for guitar from the sixteenth to twenty-first centuries.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2022, Spring 2020, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 750 Kameraden Chorus**

1 cr. Graduate.

Large choir of students who prefer to sing tenor or bass rehearses and performs music of various styles and historical periods.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Retakeable to 6 cr max. Audition required. Open to all students by audition.**Last Taught:** Fall 2022, Fall 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 751 Advanced Piano Repertoire I**

2 cr. Graduate.

Advanced study of the piano repertoire, including works of all representative periods.

**Prerequisites:** grad st; Music 276.**Last Taught:** Fall 2021, Fall 2017, Fall 2016, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 752 Advanced Piano Repertoire II**

2 cr. Graduate.

Advanced study of the piano repertoire, including works of all representative periods.

**Prerequisites:** grad st; Music 751(P).**Last Taught:** Spring 2022, Spring 2017, Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 753 Advanced Song Literature I**

2 cr. Graduate.

Art songs and vocal literature of Italy, Great Britain, Germany and France through recordings, student performances and lectures. Given alternate years in fall semester.

**Prerequisites:** grad st & cons instr.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 754 Advanced Song Literature II**

2 cr. Graduate.

Art songs and vocal literature of the United States, European countries, South America, and Spain through recordings, student performances and lectures. Given alternate years in spring semester.

**Prerequisites:** grad st; Music 753(P); or cons instr.**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 755 Advanced Instrumental Repertoire I: Strings**

2 cr. Graduate.

Comprehensive study of the solo and ensemble literature for string instruments through study, performance, and listening.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 756 Advanced Instrumental Repertoire II: Strings**

2 cr. Graduate.

Comprehensive study of solo and ensemble literature for string instruments through study, performance, and listening.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 757 Advanced Instrumental Repertoire I: Brass and Woodwinds**

2 cr. Graduate.

Comprehensive study of the solo and ensemble literature for brass and woodwind instruments through study, performance, and listening.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 758 Advanced Instrumental Repertoire II: Brass and Woodwinds**

2 cr. Graduate.

Comprehensive study of the solo and ensemble literature for brass and woodwind instruments through study, performance, and listening.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2016, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 762 Contemporary Music Ensemble**

3 cr. Graduate.

For music majors with advanced instrumental and vocal competence.

Rehearsals and concert series devoted to complex works by contemporary composers.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2017, Fall 2015, Fall 2013, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 763 Advanced Percussion Performance Repertoire**

2 cr. Graduate.

A comprehensive study of the solo and ensemble repertoire for tympani/ percussion through study, performance and listening.

**Prerequisites:** grad st; Music 279 or cons instr.**Last Taught:** Fall 2011, Spring 2000, Fall 1999, Fall 1990.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 765 Advanced Instrumental Repertoire I: Guitar**

2 cr. Graduate.

Comprehensive study of the solo and ensemble literature for guitar through study, performance, and listening.

**Prerequisites:** graduate standing or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 766 Advanced Instrumental Repertoire II: Guitar**

2 cr. Graduate.

Continuing study of solo and ensemble literature for guitar through study, performance, listening.

**Prerequisites:** graduate standing and MUSIC 765(P) or consent of instructor.**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**MUSIC 769 Graduate Choral Conducting I**

2 cr. Graduate.

Study of conducting problems in choral works of divergent styles/periods.

**Prerequisites:** graduate standing in MM choral performance or music education (choral emphasis); undergraduate choral conducting course(s); professional conducting experience; consent of instructor.**Course Rules:** Projects assigned to meet specific student need.**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 770 Graduate Choral Conducting II**

2 cr. Graduate.

Continuing study of conducting problems in choral works of divergent styles/periods. Projects assigned to meet specific student need.

**Prerequisites:** graduate standing and MUSIC 769(P) or MUSIC 553(P); consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 771 Graduate Choral Conducting III**

2 cr. Graduate.

Advanced analysis of architectural, stylistic and gestural concerns in choral works of divergent styles/periods. Projects assigned to meet specific student need. Supervised conducting time with student's own ensemble.

**Prerequisites:** grad st; Music 770(P) or 554(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 772 Advanced Instrumental Conducting**

2 cr. Graduate.

Study of conducting problems in instrumental works of all periods. Projects will be assigned to meet the background and needs of students. Practical experience will be gained by conducting university groups.

**Prerequisites:** grad st & Music 554.**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 781 University Community Orchestra**

1 cr. Graduate.

Rehearsal and performance of orchestral music. Intended for non-music majors, music majors playing their secondary instrument, and community members.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 782 Symphony Orchestra**

1 cr. Graduate.

For music majors with advanced playing experience. Rehearsals are devoted to reading orchestral literature of the 18th, 19th, and 20th centuries.

**Prerequisites:** grad st & cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 789 Wind Ensemble**

1 cr. Graduate.

**Prerequisites:** grad st & cons instr.**Course Rules:** For Music majors with advanced playing experience.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 795 Concert Chorale**

1 cr. Graduate.

This highly select mixed ensemble performs advanced level music from all periods of choral literature, utilizing instruments when appropriate. Auditions take place during the first week of each new semester.

**Prerequisites:** grad st; audition & cons instr.**Course Rules:** May be retaken to combined max of 6 sem.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 797 Vocal Jazz Ensemble**

1 cr. Graduate.

Jazz arrangements of standard popular songs, including ballads, swing, bebop, and current fusion styles, performed with rhythm section accompaniment.

**Prerequisites:** grad st, cons instr**Last Taught:** Spring 2013, Spring 1988, Fall 1987, Spring 1987.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 798 Bella Voce**

1 cr. Graduate.

Highly select treble choir performs music of various styles, cultures, and historical periods. For students with significant choral experience.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Retakeable to 6 cr max. Audition required.**Last Taught:** Spring 2019, Fall 2018, Fall 2016, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 799 Advanced Independent Work**

1-3 cr. Graduate.

The student must apply for scheduling advanced independent work with the graduate committee, if possible during the semester preceding the project.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 806 Chamber Music Master Class**

1 cr. Graduate.

Student participation and stage performance of chamber music with discussion of critiques by institute faculty and guest artists.

**Prerequisites:** grad st; admis to ICM, writ cons director of ICM.**Course Rules:** May be repeated to max of 4 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 811 Seminar In Baroque Music**

3 cr. Graduate.

Investigation of problems of the Music of the Baroque era with reference to the evolution of musical styles in Western Europe from 1600-1750.

**Prerequisites:** grad st; cons instr**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSIC 829 Seminar: Historical Perspectives On Violin, Viola And Cello Pedagogy**

2 cr. Graduate.

Traces evolution of modern instruments and teaching methods, and explores interdisciplinary tools and resources for the string teacher.

**Prerequisites:** grad st; Music 720(P), 721(P), 724(P); or cons instr.**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSIC 835 Chamber Music Coaching**

2 cr. Graduate.

Weekly ensemble coaching by ICM faculty and guest artists. Public performance required.

**Prerequisites:** grad st; admis to ICM; writ cons director of ICM.

**Course Rules:** May be repeated to a max of 8 cr.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSIC 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirements.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Spring 2023, Fall 2022, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSIC 911 Seminar In Musicology I**

3 cr. Graduate.

Research seminar devoted to the investigation of musical problems. May serve as a basis for developing thesis projects, research papers, and lecture-recitals.

**Prerequisites:** grad st

**Last Taught:** Spring 2022, Spring 2020, Spring 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSIC 990 Research of Thesis**

1-3 cr. Graduate.

Thesis or thesis equivalent in music history, recital, lecture-recital, public performance, or composition. Approval of subject and assignment to staff member by the graduate committee.

**Prerequisites:** grad st.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSIC 991 Recital And Lecture Demonstration**

1 cr. Graduate.

Public recital and lecture demonstration for string pedagogy students. Approval of subject by student's major teacher and the music graduate committee required.

**Prerequisites:** grad st; cons instr

**Course Rules:** Open only to string pedagogy students.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSIC 999 Research (Independent Work)**

1-3 cr. Graduate.

Approval of project and assignment to staff member by graduate committee.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022, Fall 2021, Spring 2021, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## **Music Education (MUS ED)**

### **MUS ED 249 Diction Survey**

2 cr. Undergraduate.

Survey of Diction for Music Education. An in depth study of IPA covering germanic, romance and other languages as needed.

**Prerequisites:** none.

**Last Taught:** Fall 2016, Fall 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 260 Making Music Connections with Children**

3 cr. Undergraduate.

Experiencing music through interactive participation by singing, listening, moving, creating, and playing classroom instruments. Collaboratively teach multiethnic music for children in class.

**Prerequisites:** junior standing and admitted to the School of Education; or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 331 Keyboard Skills for Music Educators I**

1 cr. Undergraduate.

Functional use of the keyboard for accompanying, sight reading and improvising.

**Prerequisites:** a grade of C- or better in MUSIC 128(P) and Music major; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 332 Keyboard Skills for Music Educators II**

1 cr. Undergraduate.

Functional use of the keyboard for accompanying and reading open score.

**Prerequisites:** MUS ED 331(P) and student in Teacher Certification program; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 350 Introduction to Teaching Music**

2 cr. Undergraduate.

Exploration of the profession of music teaching including observation in area music programs. Successful exit audition required for admission to the certification program.

**Prerequisites:** Music major or special student.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 351 Folk Instrument and Popular Instrument Pedagogy and Technique**

2 cr. Undergraduate.

Practical experience with folk and popular instruments, e.g. guitar, electric bass, ukulele, etc. Methods and materials for use with children K-12.

**Prerequisites:** music education major or consent of instructor.

**Last Taught:** Fall 2023, Spring 2022, Fall 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 352 Technology in Music Education**

2 cr. Undergraduate.

Awareness of music education software and hardware to incorporate technology into planning, implementation and assessment of musical learning experiences.

**Prerequisites:** music education major or consent of instructor

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 385 Guitar Pedagogy**

2 cr. Undergraduate.

Studies in the pedagogy of guitar for class and private studios.

**Prerequisites:** jr st; cons instr.

**Last Taught:** Fall 2022, Spring 2019, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 450 Field Experience in Music Education**

2 cr. Undergraduate.

Experience working with diverse student populations in cooperating schools to address issues of urban teaching.

**Prerequisites:** Music Major; admis to teacher cert prog.

**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 451 Teaching Instrumental Music: Elementary and Middle Levels**

2 cr. Undergraduate.

Group ensemble pedagogical techniques in elementary and middle schools; survey of band and orchestra literature; marching and jazz techniques; organization and administration of instrumental music.

**Prerequisites:** Music Major; admis to teacher cert prog.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 460 Pedagogy and Practice for Teaching General Music K-12**

4 cr. Undergraduate.

Methods, materials, and observation of teaching general music in grades pre K-12.

**Prerequisites:** student in Music Education Teacher Certification program; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 461 Teaching Secondary General Music**

2 cr. Undergraduate.

Methods and materials for teaching classroom music; work with creating, performing, and listening techniques; model course designs; related arts-humanities format; and appropriate resources. Sixth grade through adult.

**Prerequisites:** Music Major; admis to teacher cert prog; or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 462 Teaching Secondary Choral Music**

3 cr. Undergraduate.

Methods and techniques for teaching choral music; work with organization choral program, auditioning, choosing music, program planning; rehearsal techniques, public relations, and setting up a choral library. Sixth grade through adult.

**Prerequisites:** Music Major and student in Teacher Certification program; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 463 Teaching Instrumental Music**

3 cr. Undergraduate.

Group ensemble pedagogical techniques; survey of band and orchestra literature; marching and jazz techniques; organization and administration of the instrumental music program.

**Prerequisites:** student in Music Education Teacher Certification program; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 477 Student Teaching in Music - Elementary Level**

1-9 cr. Undergraduate.

Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.

**Prerequisites:** Music Major; admis to teacher cert prog; and program approval.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 478 Student Teaching in Music - Secondary Level**

1-9 cr. Undergraduate.

Teaching experience in cooperating school systems in or near Milwaukee; supervision by critic teacher and members of the music faculty.

**Prerequisites:** Music Major; admis to teacher cert prog; and program approval.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 479 Seminar in Student Teaching**

1 cr. Undergraduate.

A seminar meeting to review teacher field observations, portfolio development, and preparation of resume and job application materials.

**Prerequisites:** Music Major; admis to teacher cert prog; and program approval.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 680 Special Studies in Music Education:**

1-3 cr. Undergraduate/Graduate.

Current issues in music education techniques, pedagogy, and practice at all levels of music teaching. Variable Topics.

**Prerequisites:** admis to U/G MusEd prog or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 680G Special Studies in Music Education:**

1-3 cr. Undergraduate/Graduate.

Current issues in music education techniques, pedagogy, and practice at all levels of music teaching. Variable Topics.

**Prerequisites:** admis to U/G MusEd prog or cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUS ED 710 Research in Music Education**

3 cr. Graduate.

Qualitative and quantitative methods in music education research.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2021, Fall 2019, Spring 2016, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 777 Foundations of Music Education**

3 cr. Graduate.

Studies in the history and philosophy of music education, aesthetics, and basic research design. Discussion of current curricular practices as compared with traditional music education.

**Prerequisites:** grad st.

**Last Taught:** Summer 2021, Summer 2019, Fall 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 778 Recent Developments in Music Education**

3 cr. Graduate.

Studies in music curriculum trends and related socio-cultural factors. Influences of Orff, Kodaly, Dalcroze, Manhattanville, CMP, the Yale seminar, and the Tanglewood symposium.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022, Summer 2020, Summer 2015, Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 780 General Music Methods and Materials**

2 cr. Graduate.

New approaches to secondary general music--particularly jr high related arts/humanities, films, filmstrip packages, records and book resources. Development of teaching units.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022, Spring 2022, Fall 2014, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 781 Seminar in Elementary Music**

2-3 cr. Graduate.

Study of the principal approaches to teaching elementary classroom music. Work with appropriate resources.

**Prerequisites:** grad st.

**Last Taught:** Spring 2014, Spring 2010, Fall 1990, Fall 1989.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 782 Music Education Seminar**

1-3 cr. Graduate.

Special offerings on subjects not covered by the basic seminars and other elective music education courses.

**Prerequisites:** grad st.

**Last Taught:** Fall 2021, Fall 2020, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 799 Independent Study in Music Education**

1-3 cr. Graduate.

Detailed independent work under a major professor in an area of Music Education not covered by available courses.

**Prerequisites:** grad st & cons instr.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUS ED 990 Thesis or Final Project**

1-6 cr. Graduate.

Formal written thesis, lecture/recital, major annotated bibliography, curriculum synthesis, or other type of music education project. Must submit proposal to advisor in Music Education and be approved by the Graduate Committee.

**Prerequisites:** grad st.

**Course Rules:** Retakeable to max of 6 cr.

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## **Music Performance (MUSPERF)**

### **MUSPERF 1 Fundamentals of Piano:**

1 cr. Undergraduate.

Small group instruction in piano fundamentals. Course has two progressive levels.

**Prerequisites:** Music major; audition principal instrument; successful completion of lower level; or cons instr.

**Course Rules:** May be retaken w/chg in topic to max of 2 cr. Repeat of level only by prior cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSPERF 101 Lessons in Piano**

1 cr. Undergraduate.

Private lessons in piano.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSPERF 102 Lessons in Organ**

1 cr. Undergraduate.

Private lessons in organ.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSPERF 103 Lessons in Harpsichord**

1 cr. Undergraduate.

Private lessons in harpsichord.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2008, Fall 2007, Spring 1984.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSPERF 111 Lessons in Voice**

1 cr. Undergraduate.

Private lessons in voice.

**Prerequisites:** Music minor, Music major (secondary instrument), or Theatre major, and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **MUSPERF 121 Lessons in Flute**

1 cr. Undergraduate.

Private lessons in flute.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken with change to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 122 Lessons in Oboe**

1 cr. Undergraduate.

Private lessons in oboe.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2022, Spring 2019, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 123 Lessons in Clarinet**

1 cr. Undergraduate.

Private lessons in clarinet.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 124 Lessons in Saxophone**

1 cr. Undergraduate.

Private lessons in saxophone.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 125 Lessons in Bassoon**

1 cr. Undergraduate.

Private lessons in bassoon.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 131 Lessons in French Horn**

1 cr. Undergraduate.

Private lessons in french horn.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 132 Lessons in Trumpet**

1 cr. Undergraduate.

Private lessons in trumpet.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2021, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 133 Lessons in Trombone**

1 cr. Undergraduate.

Private lessons in trombone.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Fall 2021, Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 134 Lessons in Euphonium**

1 cr. Undergraduate.

Private lessons in euphonium.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2020, Spring 2012, Spring 2011, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 135 Lessons in Tuba**

1 cr. Undergraduate.

Private lessons in tuba.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2021, Spring 2012, Spring 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 141 Lessons in Violin**

1 cr. Undergraduate.

Private lessons in violin.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 142 Lessons in Viola**

1 cr. Undergraduate.

Private lessons in viola.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2021, Fall 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 143 Lessons in Cello**

1 cr. Undergraduate.

Private lessons in cello.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Fall 2021, Spring 2020, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 144 Lessons in Double Bass**

1 cr. Undergraduate.

Private lessons in double bass.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 145 Lessons in Harp**

1 cr. Undergraduate.

Private lessons in harp.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 146 Lessons in Guitar: Classical**

1 cr. Undergraduate.

Private lessons in a non-principal guitar style.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 4 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 148 Lessons in Guitar: Jazz**

1 cr. Undergraduate.

Private lessons in a non-principal style.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 4 cr max.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 151 Lessons in Percussion**

1 cr. Undergraduate.

Private lessons in percussion.

**Prerequisites:** Music minor or Music major (secondary instrument), and audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 152 Lessons in Drum Set**

1 cr. Undergraduate.

Private lessons in drum set.

**Prerequisites:** Music minor; Music major (secondary instrument); audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max.

**Last Taught:** Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 201 Lessons in Piano**

1 cr. Undergraduate.

Private lessons in piano.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 202 Lessons in Organ**

1 cr. Undergraduate.

Private lessons in organ.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2016, Spring 2016, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 203 Lessons in Harpsichord:**

1 cr. Undergraduate.

Private lessons in harpsichord. Course has eight progressive performance levels.

**Prerequisites:** music major; audition principal instrument; successful completion of each lower level; or cons instr.

**Course Rules:** May be retaken w/chg in topic to 8 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.

**Last Taught:** Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 211 Lessons in Voice**

1 cr. Undergraduate.

Private lessons in voice.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 221 Lessons in Flute**

1 cr. Undergraduate.

Private flute lessons, studio class, and convocation for Music Education students.

**Prerequisites:** Music Education BFA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 222 Lessons in Oboe**

1 cr. Undergraduate.

Private lessons in oboe.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 223 Lessons in Clarinet**

1 cr. Undergraduate.

Private lessons in clarinet.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2021, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 224 Lessons in Saxophone**

1 cr. Undergraduate.

Private lessons in saxophone.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 225 Lessons in Bassoon**

1 cr. Undergraduate.

Private lessons in bassoon.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2018, Spring 2018, Fall 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 231 Lessons in French Horn**

1 cr. Undergraduate.

Private lessons in french horn.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2022, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 232 Lessons in Trumpet**

1 cr. Undergraduate.

Private lessons in trumpet.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2021, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 233 Lessons in Trombone**

1 cr. Undergraduate.

Private lessons in trombone.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 234 Lessons in Euphonium**

1 cr. Undergraduate.

Private lessons in euphonium.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 235 Lessons in Tuba**

1 cr. Undergraduate.

Private lessons in tuba.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 241 Lessons in Violin**

1 cr. Undergraduate.

Private lessons in violin.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2022, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 242 Lessons in Viola**

1 cr. Undergraduate.

Private lessons in viola.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 243 Lessons in Cello**

1 cr. Undergraduate.

Private lessons in cello.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 244 Lessons in Double Bass**

1 cr. Undergraduate.

Private lessons in double bass.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 245 Lessons in Harp**

1 cr. Undergraduate.

Private lessons in harp.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2018, Spring 2005, Spring 2004, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 246 Lessons in Guitar: Classical**

1 cr. Undergraduate.

Private lessons in a guitar style.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 251 Lessons in Percussion**

1 cr. Undergraduate.

Private lessons in percussion.

**Prerequisites:** Music Education major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 7 cr max. Senior half recital must be completed in 7th semester. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 301 Lessons in Piano**

2 cr. Undergraduate.

Private lessons in piano.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 302 Lessons in Organ**

2 cr. Undergraduate.

Private lessons in organ.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2009, Spring 2007, Spring 2005, Spring 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 304 Lessons in Collaborative Piano-Vocal**

2 cr. Undergraduate.

Private lessons in Collaborative Piano-Vocal.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 311 Lessons in Voice**

2 cr. Undergraduate.

Private lessons in voice.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 315 Brass Pedagogy and Techniques**

3 cr. Undergraduate.

Prepares students to teach brass instruments in K-12 school settings. Classroom instruction in horn, trumpet, trombone, euphonium, tuba and related brass instruments.

**Prerequisites:** Music major; or cons instr.

**Course Rules:** Counts as repeat of MusPerf 31, 32, 33, 34, & 35.

**Last Taught:** Fall 2022, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**MUSPERF 316 String Pedagogy and Techniques**

3 cr. Undergraduate.

Prepares students for classroom instruction in teaching violin, viola, cello and string bass with appropriate pedagogical and repertoire choices for all K-12 school.

**Prerequisites:** Music major; or cons instr.

**Course Rules:** Counts as repeat of MusPerf 41, 42, 43, 44, and Mus Ed 452.

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 317 Woodwind Pedagogy and Techniques**

3 cr. Undergraduate.

Prepares students for classroom instruction in flute, oboe, clarinet, bassoon and saxophone with appropriate pedagogical and repertoire choices for all K-12 school.

**Prerequisites:** Music major; or cons instr.

**Course Rules:** Counts as repeat of MusPerf 21, 22, 23, 24.

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 318 Percussion Pedagogy and Techniques**

2 cr. Undergraduate.

Instruments and methods for teaching various percussion instruments and methods including snare drum, timpani, keyboard percussion instruments, accessory percussion instruments, and hand drums.

**Prerequisites:** Music major; or cons instr.

**Course Rules:** Counts as repeat of MusPerf 51.

**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 321 Lessons in Flute**

2 cr. Undergraduate.

Private lessons in flute.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2023, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 322 Lessons in Oboe**

2 cr. Undergraduate.

Private lessons in oboe.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 323 Lessons in Clarinet**

2 cr. Undergraduate.

Private lessons in clarinet.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 324 Lessons in Saxophone**

2 cr. Undergraduate.

Private lessons in saxophone.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2021, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 325 Lessons in Bassoon**

2 cr. Undergraduate.

Private lessons in bassoon.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 331 Lessons in French Horn**

2 cr. Undergraduate.

Private lessons in french horn.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2023, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 332 Lessons in Trumpet**

2 cr. Undergraduate.

Private lessons in trumpet.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 333 Lessons in Trombone**

2 cr. Undergraduate.

Private lessons in trombone.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 334 Lessons in Euphonium**

2 cr. Undergraduate.

Private lessons in euphonium.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2007, Fall 2006, Spring 2004, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 335 Lessons in Tuba**

2 cr. Undergraduate.

Private lessons in tuba.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2021, Spring 2019, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 341 Lessons in Violin**

2 cr. Undergraduate.

Private lessons in violin.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 342 Lessons in Viola**

2 cr. Undergraduate.

Private lessons in viola.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Fall 2021, Spring 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 343 Lessons in Cello**

2 cr. Undergraduate.

Private lessons in cello.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 344 Lessons in Double Bass**

2 cr. Undergraduate.

Private lessons in double bass.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2022, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 345 Lessons in Harp**

2 cr. Undergraduate.

Private lessons in harp.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2016, Fall 2015, Fall 2009, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 346 Lessons in Guitar: Classical**

2 cr. Undergraduate.

Private lessons in a principal guitar style.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 348 Lessons in Guitar: Jazz**

2 cr. Undergraduate.

Private lessons in a principal guitar style.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 351 Lessons in Percussion**

2 cr. Undergraduate.

Private lessons in percussion.

**Prerequisites:** Music BA major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 352 Jazz Drum Set:**

2 cr. Undergraduate.

Lessons in Jazz Drum Set. Course has two progressive levels.

**Prerequisites:** Jazz Studies major; audition principal instrument; successful completion of each lower level; or cons instr.

**Course Rules:** May be retaken w/chg in topic to 4 cr max. Conc reg in approved performance organization. Repeat of level only by prior cons instr.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 361 Lessons in Composition**

1 cr. Undergraduate.

Private lessons in composition.

**Prerequisites:** Music major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 8 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 401 Lessons in Piano**

3 cr. Undergraduate.

Private lessons in piano.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 402 Lessons in Organ**

3 cr. Undergraduate.

Private lessons in organ.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2005, Spring 2005, Fall 2004, Spring 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 404 Lessons in Collaborative Piano**

3 cr. Undergraduate.

Private lessons in Collaborative Piano.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2014, Spring 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 411 Lessons in Voice**

3 cr. Undergraduate.

Private lessons in voice.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 412 Voice Lessons for Musical Theatre**

2-3 cr. Undergraduate.

Private lessons in voice for Musical Theatre majors.

**Prerequisites:** Musical Theatre major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken 12 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 421 Lessons in Flute**

3 cr. Undergraduate.

Private lessons in flute.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 422 Lessons in Oboe**

3 cr. Undergraduate.

Private lessons in oboe.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 423 Lessons in Clarinet**

3 cr. Undergraduate.

Private lessons in clarinet.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 424 Lessons in Saxophone**

3 cr. Undergraduate.

Private lessons in saxophone.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 425 Lessons in Bassoon**

3 cr. Undergraduate.

Private lessons in bassoon.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 431 Lessons in French Horn**

3 cr. Undergraduate.

Private lessons in french horn.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 432 Lessons in Trumpet**

3 cr. Undergraduate.

Private lessons in trumpet-cornet.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2018, Spring 2018, Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 433 Lessons in Trombone**

3 cr. Undergraduate.

Private lessons in trombone.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 434 Lessons in Euphonium**

3 cr. Undergraduate.

Private lessons in euphonium.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2007, Fall 2006, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 435 Lessons in Tuba**

3 cr. Undergraduate.

Private lessons in tuba.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2021, Spring 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 441 Lessons in Violin**

3 cr. Undergraduate.

Private lessons in violin.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 442 Lessons in Viola**

3 cr. Undergraduate.

Private lessons in viola.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2021, Spring 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 443 Lessons in Cello**

3 cr. Undergraduate.

Private lessons in cello.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 444 Lessons in Double Bass**

3 cr. Undergraduate.

Private lessons in double bass.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 445 Lessons in Harp**

3 cr. Undergraduate.

Private lessons in harp.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 446 Lessons in Guitar: Classical**

3 cr. Undergraduate.

Private lessons in a principal guitar style.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 448 Lessons in Guitar: Jazz**

3 cr. Undergraduate.

Private lessons in a principal guitar style.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 451 Lessons in Percussion**

3 cr. Undergraduate.

Private lessons in percussion.

**Prerequisites:** Music Performance major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 24 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 461 Lessons in Composition**

2 cr. Undergraduate.

Private lesson in composition.

**Prerequisites:** Music major or non-major; audition principal instrument; or consent of instructor.

**Course Rules:** May be retaken to 16 cr max. Concurrent registration in approved performance organization.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 701 Keyboard Instruments: Piano**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 24 cr. Audition required.

**Last Taught:** Fall 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 702 Keyboard Instruments: Organ**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 16 cr. Audition required.**Last Taught:** Spring 2003, Fall 2002, Spring 2002, Fall 2001.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 703 Collaborative Piano-Vocal**

3 cr. Graduate.

Study and performance of the art song repertoire; development of sight reading, transposition, and vocal coaching skills.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 12 cr. Audition required.**Last Taught:** Fall 2023, Spring 2023, Spring 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 704 Collaborative Piano: Instrumental**

3 cr. Graduate.

Study and performance of the standard wind and string solo and ensemble repertoire (excluding string sonatas); piano reductions of orchestral accompaniments.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 12 credits. Audition required.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 705 Techniques of Opera Coaching and Accompanying**

2 cr. Graduate.

Introduction to opera coaching and accompanying skills. Students will observe and accompany opera workshop rehearsals and public performances.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 8 cr. Audition required.**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 706 Sonatas, Piano and String**

2 cr. Graduate.

Study and performance of the standard piano and string sonata repertoire from all periods.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 8 cr. Audition required.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 711 Voice**

4 cr. Graduate.

Principal performance study for graduate students in Music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 24 cr. Audition required.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 721 Lessons in Flute**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 24 cr. Audition required.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 722 Woodwind Instruments: Oboe**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 24 cr. Audition required.**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 723 Woodwind Instruments: Clarinet**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 24 cr. Audition required.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 724 Woodwind Instruments: Saxophone**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 24 cr. Audition required.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 725 Woodwind Instruments: Bassoon**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 24 cr. Audition required.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 731 Brass Instruments: French Horn**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 24 cr. Audition required.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 732 Brass Instruments: Trumpet**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.**Course Rules:** May be repeated to a max of 24 cr. Audition required.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 733 Brass Instruments: Trombone**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 24 cr. Audition required.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 734 Brass Instruments: Euphonium**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 24 cr. Audition required.

**Last Taught:** Spring 2022, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 735 Brass Instruments: Tuba**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 24 cr. Audition required.

**Last Taught:** Fall 2023, Spring 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 741 String Instruments: Violin**

3-4 cr. Graduate.

Principal performance study for graduate students concentrating in violin performance (4 cr), or principal instrumental study for graduate students concentrating in string pedagogy (3 cr).

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 24 cr (performance students), or 12 cr (string pedagogy students). Audition required.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 742 String Instruments: Viola**

3-4 cr. Graduate.

Principal performance study for graduate students concentrating in viola performance (4 cr), or principal instrumental study for graduate students concentrating in string pedagogy (3 cr).

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 24 cr (performance students), or 12 cr (string pedagogy students). Audition required.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 743 String Instruments: Violoncello**

3-4 cr. Graduate.

Principal performance study for graduate students concentrating in violoncello performance (4 cr), or principal instrumental study for graduate students concentrating in string pedagogy (3 cr).

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to max of 24 cr (performance students), or 12 cr (string pedagogy students). Audition required.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 744 String Instruments: Bass**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 24 cr. Audition required.

**Last Taught:** Fall 2009, Spring 1989, Fall 1988, Spring 1985.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 745 String Instruments: Harp**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 24 cr. Audition required.

**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 746 Guitar**

4 cr. Graduate.

Principal performance study for graduate students concentrating in guitar performance.

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 24 cr. Audition required.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 751 Percussion**

4 cr. Graduate.

Principal performance study for graduate students in music in their major area.

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 24 cr. Audition required.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 752 Lessons in Drum Set**

2 cr. Graduate.

Stylistic, technical and musical demands of the drum set player, including the musical styles of Afro-Cuban, Brazilian, funk, and rock, and other topics.

**Prerequisites:** graduate standing in music or consent of instructor.

**Course Rules:** Repeatable to 8 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 761 Advanced Composition**

3 cr. Graduate.

Advanced independent performance study in musical composition.

**Prerequisites:** graduate standing in Music or consent of instructor.

**Course Rules:** May be repeated to a max of 12 cr. Audition required.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 801 Keyboard Instruments, Piano**

2 cr. Graduate.

Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Open to ICM students only.

**Last Taught:** Fall 2018, Spring 2016, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 821 Woodwind Instruments, Flute**

2 cr. Graduate.

Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.

**Prerequisites:** grad st; cons instr.**Course Rules:** Open to ICM students only.**Last Taught:** Spring 2019, Fall 2018, Spring 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 822 Woodwind Instruments, Oboe**

2 cr. Graduate.

Principal performance study for solo and chamber works for institute of chamber music students on their major instrument. Public performance required.

**Prerequisites:** grad st; cons instr.**Course Rules:** Open to ICM students only.**Last Taught:** Spring 2002, Fall 2001, Spring 2001, Fall 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 823 Woodwind Instruments, Clarinet**

2 cr. Graduate.

Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.

**Prerequisites:** grad st; cons instr.**Course Rules:** Open to ICM students only.**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 825 Woodwind Instruments, Bassoon**

2 cr. Graduate.

Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.

**Prerequisites:** grad st; cons instr.**Course Rules:** Open to ICM students only.**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 841 String Instruments, Violin**

2 cr. Graduate.

Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.

**Prerequisites:** grad st; cons instr.**Course Rules:** Open to ICM students only.**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 842 String Instruments, Viola**

2 cr. Graduate.

Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.

**Prerequisites:** grad st; cons instr.**Course Rules:** Open to ICM students only.**Last Taught:** Spring 2020, Fall 2019, Spring 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 843 String Instruments, Violoncello**

2 cr. Graduate.

Principal performance study in solo and chamber works for institute of chamber music students on their major instrument. Public performance required.

**Prerequisites:** grad st; cons instr.**Course Rules:** Open to ICM students only.**Last Taught:** Spring 2020, Fall 2019, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 855 Instrumental Master Class**

1 cr. Graduate.

Discussion of individual instrumental techniques in chamber music playing. Literature studied depending on group experience and interest.

**Prerequisites:** grad st; admis to ICM; writ cons director of ICM.**Course Rules:** May be repeated to max of 4 cr.**Last Taught:** Fall 2020, Spring 2020, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 901 Keyboard Instruments, Piano**

1 cr. Graduate.

Principal performance study for graduate students in music in their non-major areas.

**Prerequisites:** grad st; cons instr.**Course Rules:** Counts as repeat of MusPerf 601. May be repeated to max of 6 cr. Music majors only.**Last Taught:** Fall 2023, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 902 Keyboard Instruments, Organ**

1 cr. Graduate.

Principal applied music study for graduate students in music in their non-major areas.

**Prerequisites:** grad st; cons instr.**Course Rules:** Counts as repeat of MusPerf 601. May be repeated to max of 6 cr. Music majors only.**Last Taught:** Fall 2020, Fall 2017, Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 903 Keyboard Instruments, Harpsichord**

1 cr. Graduate.

Principal applied music study for graduate students in music in their non-major areas.

**Prerequisites:** grad st; cons instr.**Course Rules:** Counts as repeat of MusPerf 603. May be repeated to max of 6 cr. Music majors only.**Last Taught:** Spring 2007, Fall 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**MUSPERF 911 Voice**

1 cr. Graduate.

Principal performance study for graduate students in music in their non-major area.

**Prerequisites:** grad st; cons instr.**Course Rules:** Counts as repeat of MusPerf 601. May be repeated to max of 6 cr. Music majors only.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 921 Performance Studies in Flute**

1-2 cr. Graduate.  
Principal applied music study for graduate students in music in their non-major areas.  
**Prerequisites:** graduate standing in Music or consent of instructor.  
**Course Rules:** May be repeated to a max of 8 cr. Audition required.  
**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Spring 2015.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 922 Woodwind Instruments, Oboe**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major area.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** Counts as repeat of MusPerf 621. May be repeated to max of 6 cr. Music majors only.  
**Last Taught:** Spring 2022, Fall 2021, Spring 2004, Fall 2003.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 923 Woodwind Instruments, Clarinet**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major area.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** Counts as repeat of MusPerf 623. May be repeated to max of 6 cr. Open to music majors only.  
**Last Taught:** Spring 2013, Fall 2012, Spring 2009, Fall 2008.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 924 Woodwind Instruments, Saxophone**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major area.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** Counts as repeat of MusPerf 624. May be repeated to max of 6 cr. Open to music majors only.  
**Last Taught:** Spring 2023, Fall 2022, Spring 2011, Fall 2010.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 925 Woodwind Instruments, Bassoon**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major area.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** Counts as repeat of MusPerf 625. May be repeated to max of 6 cr. Open to music majors only.  
**Last Taught:** Spring 2020, Fall 2019, Fall 2007, Fall 2006.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 931 Brass Instruments, French Horn**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major area.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** Counts as repeat of MusPerf 631. May be repeated to max of 6 cr. Open to music majors only.  
**Last Taught:** Spring 2015, Fall 2013, Spring 2013, Spring 2008.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 932 Brass Instruments, Trumpet**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major area.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** May be repeated to max of 6 cr.  
**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 933 Brass Instruments, Trombone**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major area.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** Counts as a repeat of MusPerf 633. May be repeated to max of 6 cr. Open to music majors only.  
**Last Taught:** Fall 2008, Spring 2007, Fall 2006, Spring 2006.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 934 Brass Instruments, Euphonium**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major areas.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** May be repeated to max of 6 cr.  
**Last Taught:** Fall 2007, Fall 2006, Spring 2005.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 935 Brass Instruments, Tuba**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major area.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** Counts as repeat of MusPerf 635. May be repeated to max of 6 cr. Open to music majors only.  
**Last Taught:** Spring 2023, Fall 2022, Spring 2018, Spring 2014.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 941 String Instruments, Violin**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major area.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** Counts as repeat of MusPerf 641. May be repeated to max of 6 cr. Open to Music majors only.  
**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2020.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 942 String Instruments, Viola**

1 cr. Graduate.  
Principal performance study for graduate students in music in their non-major area.  
**Prerequisites:** grad st; cons instr.  
**Course Rules:** Counts as repeat of MusPerf 642. May be repeated to max of 6 cr. Open to Music majors only.  
**Last Taught:** Fall 2023, Spring 2022, Fall 2021, Spring 2021.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**MUSPERF 943 String Instruments, Violoncello**

1 cr. Graduate.

Principal performance study for graduate students in music in their non-major area.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Counts as repeat of Musperf 643. May be repeated to max of 6 cr. Open to Music majors only.

**Last Taught:** Spring 2023, Fall 2022, Fall 2008, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 944 String Instruments, Bass Viol**

1 cr. Graduate.

Principal applied music study for graduate students in music in their non-major areas.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Counts as repeat of MusPerf 644. May be repeated to max of 6 cr. Open to Music majors only.

**Last Taught:** Spring 2017, Fall 2016, Spring 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 945 String Instruments, Harp**

1 cr. Graduate.

Principal applied music study for graduate students in music in their non-major areas.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Counts as repeat of MusPerf 645. May be repeated to max of 6 cr. Open to Music majors only.

**Last Taught:** Spring 1998, Fall 1997, Spring 1997, Fall 1996.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 946 Guitar**

1 cr. Graduate.

Principal performance study for graduate students in music in their non-major area.

**Prerequisites:** grad st; cons instr

**Course Rules:** May be repeated to a 6 cr max. Open to Music majors only.

**Last Taught:** Spring 2023, Fall 2021, Spring 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MUSPERF 951 Percussion**

1 cr. Graduate.

Principal applied music study for graduate students in music in their non-major areas.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Counts as repeat of MusPerf 651. May be repeated to max of 6 cr. Open to Music majors only.

**Last Taught:** Fall 2015, Spring 2010, Fall 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Neuroscience (NEURO)

**NEURO 690 Undergraduate Research in Neuroscience**

3 cr. Undergraduate.

Independent neuroscience research under the supervision of a faculty member. Project must be approved by one of the Neuroscience BS directors to enroll.

**Prerequisites:** BIO SCI 150(P), BIO SCI 152(P), PSYCH 101(P), PSYCH 254(P), and consent of program director.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NEURO 699 Independent Study**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a Neuroscience faculty member.

**Prerequisites:** junior standing; 2.0 GPA; consent of instructor, Neuroscience director, and Assistant Dean for Student Success and Academic Services.

**Course Rules:** Repeatable to 3 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Nonprofit Administration (NONPROF)

**NONPROF 705 Professionals and Volunteers in Nonprofit Organizations**

3 cr. Graduate.

Seminar in techniques of management of professionals and volunteers in nonprofit organizations.

**Prerequisites:** graduate standing.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 725 Governance of Nonprofit Organizations**

3 cr. Graduate.

Roles and responsibilities of governing boards and executive leaders.

Critical review of alternative governance and executive leadership models. Counts as repeat of BusMgmt 725 and Pub Adm 958 w/same title.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 740 Executive Leadership of Nonprofit Organizations**

3 cr. Graduate.

Nonprofit administration course designed to prepare students for a career in leadership and executive roles in nonprofit organizations. Counts as a repeat of Pub Adm 958 w/same topic.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 750 Social Entrepreneurship in the Nonprofit Sector**

3 cr. Graduate.

In-depth exploration and examination of the concept of social entrepreneurship and how it is being understood, applied and practiced in the nonprofit sector.

**Prerequisites:** grad st.

**Last Taught:** Spring 2021, Spring 2019, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 765 International Nongovernmental Organizations**

3 cr. Graduate.

International nongovernmental organizations (INGOs) and the roles they play in relief and development work in developing countries.

**Prerequisites:** grad st.

**Course Rules:** Counts as a repeat of Pol Sci 958 & Pub Adm 958 w/same topc.

**Last Taught:** Spring 2021, Fall 2016, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 770 Leveraging Technology in the Public and Nonprofit Sectors**

3 cr. Graduate.

Application of information technology (IT) concepts and tools to challenges and opportunities in the public and nonprofit sectors. Counts as a repeat of Pub Adm 958 w/same topic.

**Prerequisites:** grad st.

**Last Taught:** UWinterIM 2024, UWinterIM 2023, UWinterIM 2022, UWinterIM 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 785 Managing Change in Public and Nonprofit Organizations**

3 cr. Graduate.

Methods and techniques in the research and practice of organization development.

**Prerequisites:** grad st.

**Course Rules:** Counts as repeat of Pol Sci 958 & Pub Adm 958 w/same topic.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 789 Theory and Role of Nonprofit Organizations**

3 cr. Graduate.

Graduate-level introduction to nonprofit administration, including an examination of the role of the nonprofit sector in contemporary society.

**Prerequisites:** grad st.

**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 791 Nonprofit Advocacy and Public Policy**

3 cr. Graduate.

Strategies and methods of nonprofit advocacy and their use by nonprofit organizations in shaping public policy. Implications of the public policy process for nonprofit organizations.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 792 Decision-Making for Nonprofit and Public Organizations**

3 cr. Graduate.

Research methods including research design, measurement, and analysis. Qualitative and quantitative decision-making methods. Understanding and using basic statistical concepts and techniques in decision making.

**Prerequisites:** grad st

**Course Rules:** Nonprof 792 & Pub Adm 792(Pol Sci 792) are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 793 Law of Nonprofit Organizations**

3 cr. Graduate.

Legal concepts and issues relevant to the formations and operations of nonprofit organizations. Complying with applicable federal and state states and regulations.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 795 Introduction to Nonprofit Revenue Streams and Portfolios**

3 cr. Graduate.

Trends and issues surrounding nonprofit finance in an attempt to sketch a portrait of nonprofit finance theory.

**Prerequisites:** grad st.

**Course Rules:** Counts as repeat of Pol Sci 958 & Pub Adm 958 w/ Financing Nonprofits topic.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2019, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 921 Nonprofit Administrative Internship**

1-3 cr. Graduate.

Combines supervised field placement in a nonprofit organization with class sessions and assignments designed to augment the work experience.

**Prerequisites:** grad st; cons instr

**Last Taught:** Fall 2022, Fall 2019, Spring 2018, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 958 Seminar in Nonprofit Administration:**

3 cr. Graduate.

Selected topics covering different aspects of nonprofit administration. Counts as repeat of Pub Adm 958 w/same topic. Retakable w/change in topic to 9 cr max.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NONPROF 999 Independent Study**

1-3 cr. Graduate.

Independent study in a subject area of special need or interest after consultation with a faculty member.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Nursing (NURS)

**NURS 101 Cultural Diversity in Health Care**

3 cr. Undergraduate.

Enables student to conceptualize cultural diversity as a basic component of American society with implications for sensitivity and respect in health promotion and human relations.

**Prerequisites:** none.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 103 Freshman Seminar in Professional Nursing**

1 cr. Undergraduate.

Designed to orient students to nursing through self-assessment, career exploration, problem solving, study skills, and goal setting.

**Prerequisites:** admis to Pre-Nursing prog.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 172 Health and Health Care Practices**

2 cr. Undergraduate.

Focuses on health, health care practices, personnel, and services related to obtaining reliable information on health care needs and practices, and available community services.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 190 Special Studies in Nursing**

1-5 cr. Undergraduate.

Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.

**Prerequisites:** cons instr.**Course Rules:** May be retaken to max of 5 cr.**Last Taught:** Summer 2023, Summer 2022, Spring 2018, Summer 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 203 Human Growth and Development Across the Life Span**

4 cr. Undergraduate.

Introduction to physical, cognitive, and psychosocial growth of human organism from conception through older adulthood with application to health care.

**Prerequisites:** Psych 101(P).**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 204 Global Maternal and Child Health: From Evidence to Action**

3 cr. Undergraduate.

Critical issues impacting the health of mothers, newborns and children, using a global perspective and a life course analytical approach.

**Prerequisites:** none.**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 205 Clinical Pharmacology**

3 cr. Undergraduate.

The principles of pharmacology and administration; legislative controls; mechanisms of drug actions; contraindications; adverse and toxic effects and lifespan considerations.

**Prerequisites:** Nurs 320(C) or cons instr.**General Education Requirements:** OWCB**Last Taught:** Fall 2015, Spring 2015, Fall 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 211 Health Assessment**

3 cr. Undergraduate.

Concepts and skills to comprehensively assess the health status of individuals. History taking, physical examination techniques, developmental, and other assessments.

**Prerequisites:** Admis to major or cons instr.**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 262 Exploring Human Sexuality**

3 cr. Undergraduate.

Historical and contemporary issues involving human sexuality as seen through the lenses of nursing, psychology, biology, and sociology.

**Prerequisites:** none.**Last Taught:** Spring 2012, Summer 1986, Summer 1985, Spring 1984.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 290 Special Studies in Nursing**

1-5 cr. Undergraduate.

Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.

**Prerequisites:** cons instr.**Course Rules:** May be retaken to max of 5 cr.**Last Taught:** Fall 2017, Fall 2016, Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM-sponsored program before course work level, content, and credits are determined and/or in especially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken with change in topic.**Last Taught:** UWinteriM 2024, UWinteriM 2023, UWinteriM 2020, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 299 Ad Hoc:**

1-12 cr. Undergraduate.

Created expressly for offering in a specified enrollment period. Specific credits and additional prereqs, if any, will be specified in Schedule of Classes whenever course is offered.

**Prerequisites:** none.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2014, Spring 2014, Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 300 Introduction to Research Principles and Methods**

2 cr. Undergraduate.

Introduction to the significance, principles, purpose, and methods of the research process in order to create good consumers of research literature.

**Prerequisites:** none.**Last Taught:** Spring 2015, Fall 2014, Summer 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 301 Introduction to Global Health**

3 cr. Undergraduate.

Overview of the broad field of global health, using the United Nations (U.N.) Sustainable Development Goals as a framework for the class.

**Prerequisites:** none.**Course Rules:** GLOBAL 301 and NURS 301 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 315 Nursing Science I: Concepts of Promoting and Maintaining Health**

2 cr. Undergraduate.

Nursing science related to health promotion, disease prevention, and maintaining health; responses of individual and families in acute and community settings.

**Prerequisites:** admis to Nurs major.**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 316 Palliative Care**

3 cr. Undergraduate.

A review of palliative care and life limiting illness.

**Prerequisites:** Admission to the RN-BS-Nursing Program or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 316X Palliative Care**

3 cr. Undergraduate.

A review of palliative care and life limiting illness.

**Prerequisites:** Admission to the RN-BS-Nursing Program or consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 317X Health Assessment**

3 cr. Undergraduate.

Techniques of health history and physical examination to ascertain normal from variations of normal health conditions, in addition cultural and developmental variations are considered.

**Prerequisites:** admis to Collaborative Degree Prog or cons instr.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 320 Concepts of Illness I**

3 cr. Undergraduate.

Mechanisms, manifestations, diagnosis, and treatment of disease states for selected body systems.

**Prerequisites:** Bio Sci 101(P) & 203(P), Chem 103(P); or cons instr.**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 321 Concepts of Illness II**

3 cr. Undergraduate.

Mechanisms, manifestations, diagnosis and treatment of disease states for selected body systems. Continuation of Nurs 320.

**Prerequisites:** Nurs 320(P) or cons instr.**Last Taught:** Fall 2015, Spring 2015, Fall 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 326 Nursing Science II: Concepts of Aging and Long Term Health Care**

3 cr. Undergraduate.

Identification and management of factors influencing and compromising health and functional ability of older adults and exploration of long-term health care in various settings.

**Prerequisites:** admis to Nurs major.**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 327 Nursing Science III: Health Concepts-Women & Children**

4 cr. Undergraduate.

Nursing science related to the acute, chronic, and health promotion care of women and children and their families in acute and community care settings.

**Prerequisites:** Nurs 211(P), 320(P), 321(C); 331(P)**Last Taught:** Fall 2015, Summer 2015, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 328 Nursing Science IV: Concepts of Health Care of the Adult**

4 cr. Undergraduate.

Nursing science related to adults with acute and chronic health problems in both acute and community care settings. Individual and family responses.

**Prerequisites:** Nurs 321(C); 331(P).**Last Taught:** Fall 2015, Spring 2015, Fall 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 331 Foundations of Clinical Practice I**

5 cr. Undergraduate.

Introductory course includes communication, philosophy, theory, and decision making content, and psychomotor skills to be used as a base for planning and providing nursing care.

**Prerequisites:** admis to Nurs major.**Last Taught:** Spring 2015, Fall 2014, Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 334 Foundations of Clinical Practice II**

3 cr. Undergraduate.

Refine clinical decision making skills within the nursing process, professional communication, and psychomotor skills necessary for helping clients needing nursing care.

**Prerequisites:** Nurs 205(C), 321(C); 331(P).**Last Taught:** Fall 2015, Spring 2015, Fall 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 351 Professional Role 1: Foundations of Professional Practice**

2 cr. Undergraduate.

Exploration of selected foundational concepts and principles essential to the professional nursing role.

**Prerequisites:** advanced to the Nursing major.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 352 Health and Illness Concepts 1: Introduction**

3 cr. Undergraduate.

Introduction of selected foundational health and illness concepts essential to nursing practice.

**Prerequisites:** admis to nurs major.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 353 Clinical Practicum 1: Foundations**

3 cr. Undergraduate.

Clinical practicum which introduces the application of foundational knowledge, skills, and attitudes in the provision of nursing care.

**Prerequisites:** admis to nurs major.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 354 Clinical Nursing Skills 1**

1 cr. Undergraduate.

Mastery of basic nursing skills for a variety of settings and phases of care using clinical judgment as the foundation for interventions. Study of concepts essential for demonstrating competencies in the safe performance of care.

**Prerequisites:** advanced to the professional nursing major and NURS 353(C).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 365 Current Topics of Nursing:**

1-3 cr. Undergraduate.

Current thought, issues, and research in nursing and implications for practice.

**Prerequisites:** jr st or cons instr.

**Course Rules:** May be retaken with topic change to a combined max of 12 cr for Nurs 365.

**Last Taught:** Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 365X Current Topics of Nursing:**

1-3 cr. Undergraduate.

Current thought, issues, and research in nursing and implications for practice.

**Prerequisites:** jr st or cons instr.

**Course Rules:** May be retaken with topic change to a combined max of 12 cr for Nurs 365.

**Last Taught:** Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 369 Clinical Pharmacology**

3 cr. Undergraduate.

Pharmacological concepts, including legal ethical implications, pharmaco-kinetics, dynamics, -therapeutics, and pharmacogenomics. Major categories of pharmacological agents and associated alternative/complementary and nutritional therapies are examined.

**Prerequisites:** admission to the RN-BS-Nursing Program or consent of instructor.

**Last Taught:** Spring 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 369X Clinical Pharmacology**

3 cr. Undergraduate.

Pharmacological concepts, including legal ethical implications, pharmaco-kinetics, dynamics, -therapeutics, and pharmacogenomics. Major categories of pharmacological agents and associated alternative/complementary and nutritional therapies are examined.

**Prerequisites:** admission to the RN-BS-Nursing Program or consent of instructor.

**Last Taught:** Spring 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 373 Alternative and Complementary Therapies in Holistic Health Care - Theory**

2 cr. Undergraduate.

Investigative theories underlying alternative and complementary therapies (CAT) commonly used in holistic Health Care.

**Prerequisites:** none.

**Course Rules:** Can be taken simultaneously with Nurs 374.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 374 Alternative and Complementary Therapies in Holistic Health Care - Field Work**

1 cr. Undergraduate.

Experiential course with select alternative and complementary therapies (CAT) commonly used in holistic health care.

**Prerequisites:** none.

**Course Rules:** Can be taken simultaneously with Nurs 373.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 375 Genetics and Genomics for Health Professionals**

3 cr. Undergraduate.

Emphasizes relationships between science of genetics, study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients.

**Prerequisites:** Admis to RN to BSN prog.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 375X Genetics and Genomics for Health Professionals**

3 cr. Undergraduate.

Emphasizes relationships between science of genetics, study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients.

**Prerequisites:** Admis to RN to BSN prog.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 380 Honors Seminar.**

3 cr. Undergraduate.

Selected topics in nursing and healthcare. May be retaken with change in topic to 9 cr max.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 390 Special Studies in Nursing**

1-5 cr. Undergraduate.

Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.

**Prerequisites:** cons instr.

**Course Rules:** May be retaken to max of 5 cr.

**Last Taught:** Spring 2023, Spring 2018, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 398 Health Assessment and Promotion in Nursing Practice**

3 cr. Undergraduate.

Application of nursing concepts and skills to promote health and comprehensively assess the health status of individuals using a nursing framework.

**Prerequisites:** admis to nurs major.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 399 Concepts of Pathophysiology and Pharmacotherapeutics 1**

4 cr. Undergraduate.

Pathophysiology and pharmacology concepts for nursing across the lifespan.

**Prerequisites:** admis to nurs major.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 400 Concepts of Pathophysiology and Pharmacotherapeutics: 2**

4 cr. Undergraduate.

Pathophysiology and pharmacology concepts for nursing across the lifespan.

**Prerequisites:** Nurs 399(P).**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 401 Global Patterns of Disease**

3 cr. Undergraduate.

Global patterns of disease and epidemiological trends highlighting communicable, non-communicable diseases, injuries and outbreaks impacting the health of diverse populations.

**Prerequisites:** jr st; Nurs 110(P); or cons instr.**Last Taught:** Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 403 Practice, Research and Leadership Role Development**

3 cr. Undergraduate.

Explore and evaluate role of the professional nurse as practitioner, researcher, manager and leader.

**Prerequisites:** Nurs 334(P), 442(C).**General Education Requirements:** OWCB**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 407X Foundations of Professional Nursing Practice**

3 cr. Undergraduate.

Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing/health care delivery are analyzed. Professional communication skills are enhanced. Writing emphasis course.

**Prerequisites:** admis to BSN @ Home Prog or cons instr.**Course Rules:** Counts as repeat of UWS NSG 341.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 415 Nursing Science V: Concepts of Community Health Care of Aggregates**

3 cr. Undergraduate.

Nursing care of individuals, families and communities; aggregates and special populations in the community; roles of community health nurses.

**Prerequisites:** Nurs 334(P).**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 419 Concepts of Evidence-based Nursing Practice**

3 cr. Undergraduate.

Introduction to an integration of concepts relevant to evidence-based nursing practice.

**Prerequisites:** Nurs 420(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 420 Professional Role 2: Provider of Care**

2 cr. Undergraduate.

Examination of selected concepts and principles essential to the provision of patient care.

**Prerequisites:** NURS 351(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 421 Health and Illness Concepts 2: Acute and Chronic Conditions**

3 cr. Undergraduate.

Nursing care of individuals and families experiencing acute and chronic health conditions using a holistic approach.

**Prerequisites:** Nurs 352(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 422 Clinical Practicum 2: Acute & Chronic Conditions**

3 cr. Undergraduate.

Clinical practicum focusing on providing nursing care for individuals and families with acute and chronic conditions.

**Prerequisites:** Nurs 353(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 423 Clinical Nursing Skills 2**

1 cr. Undergraduate.

Mastery of nursing skills related to care of individuals and families with acute and chronic conditions. Competencies performed in a variety of healthcare settings and phases of care, requiring clinical judgment.

**Prerequisites:** advanced to the professional nursing major and

NURS 422(C).

**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 431 Health and Illness Concepts IV: Lifespan**

3 cr. Undergraduate.

Integration of selected concepts in the care of individuals and families across the lifespan.

**Prerequisites:** Nurs 421(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 432 Health and Illness Concepts III: Population Health**

3 cr. Undergraduate.

Promotion and improvement of the health of populations and communities.

**Prerequisites:** Nurs 431(C).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 433 Clinical Practicum 3: Population Health**

3 cr. Undergraduate.

Clinical practicum focusing on applying concepts and providing population based nursing care to aggregates.

**Prerequisites:** Nurs 422(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 434 Nursing Informatics and Technology**

3 cr. Undergraduate.

Basic concepts of informatics are introduced with focus on application to clinical practice to improve safety and quality of care.

**Prerequisites:** Nurs 419(P).**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 435 Concepts of Pathophysiology and Pharmacotherapeutics III**

3 cr. Undergraduate.

Pathophysiology and pharmacology concepts for nursing across the lifespan.

**Prerequisites:** advanced to the professional nursing major, NURS 399(P), and NURS 400(P); or consent of instructor.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 440 Nursing Specialty:**

2 cr. Undergraduate.

Topics of current interest in nursing specialty areas.

**Prerequisites:** Nurs 442(P).**Course Rules:** May be retaken w/chg in topic to 8 cr. max with cons instr.**Last Taught:** Fall 2016, Spring 2016, Fall 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 441X Chronic Care Management**

3 cr. Undergraduate.

Exploration of interaction of biological, psychological, social, and environmental factors important to understanding management of chronic conditions at the individual, family, community, and societal levels.

**Prerequisites:** admis to BSN @ Home Prog or cons instr.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 442 Nursing Practice I**

8 cr. Undergraduate.

Clinical practice course for providing nursing care for adults and children experiencing acute and/or chronic health problems.

**Prerequisites:** Nurs 334(P) & 403(C); or cons instr.**Last Taught:** Summer 2016, Spring 2016, Fall 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 443 Nursing Practice II**

8 cr. Undergraduate.

Clinical practice course for providing nursing care to individuals, families, groups, and communities.

**Prerequisites:** Nurs 442(P) or cons instr.**Last Taught:** Fall 2016, Spring 2016, Fall 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 445 Capstone Practicum for Registered Nurses**

3 cr. Undergraduate.

Synthesis of knowledge from current and past learning experiences and application of clinical decision making to provide comprehensive nursing care to individuals, families, groups, and communities.

**Prerequisites:** Prior to Fall, 2014: UWS Nsg 317(P), 341(P), 434(P), 437(P), & 444(P). Fall, 2014 and beyond: UWS Nsg/Nurs/Flex 407(P), 441(P), 446(P), 447(P), 453(P) & 454(P), English 102 (P).**Course Rules:** Counts as repeat of Nurs 445X.**General Education Requirements:** OWCB**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 445X Capstone Practicum for Registered Nurses**

3 cr. Undergraduate.

Synthesis of knowledge from current and past learning experiences and application of clinical decision making to provide comprehensive nursing care to individuals, families, groups, and communities.

**Prerequisites:** Prior to Fall, 2014: UWS Nsg 317(P), 341(P), 434(P), 437(P), & 444(P). Fall, 2014 and beyond: UWS Nsg/Nurs/Flex 407(P), 441(P), 446(P), 447(P), 453(P) & 454(P), English 102 (P).**Course Rules:** Counts as repeat of Nurs 445X.**General Education Requirements:** OWCB**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 446X Research and Evidence-Based Practice**

3 cr. Undergraduate.

Introduces the importance of research to improve clinical practice, strategies to evaluate the quality of research and evidence, and increase integration of research into practice.

**Prerequisites:** admis to BSN @ Home prog or cons instr, Math 105(P).**Course Rules:** Counts as repeat of UWS NSG 434.**General Education Requirements:** QLB**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 447X Leadership and Management**

3 cr. Undergraduate.

Examines nursing leadership and management using relevant theories and concepts. Analyze decision-making in relation to communication, delegation, supervision and group process.

**Prerequisites:** admis to BSN @ Home Prog or cons instr.**Course Rules:** Counts as repeat of UWS NSG 437.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 448 Mental Health Across the Care Continuum**

3 cr. Undergraduate.

This course focuses on nursing care of individuals, groups, and families experiencing acute and chronic mental health conditions across the lifespan and the continuum of care.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 448X Mental Health Across the Care Continuum**

3 cr. Undergraduate.

This course focuses on nursing care of individuals, groups, and families experiencing acute and chronic mental health conditions across the lifespan and the continuum of care.

**Prerequisites:** none.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 453X Information Management and Healthcare Technology**

3 cr. Undergraduate.

Utilize computer and information/decision science to support quality and safety in health care. Explore informatics issues and examine nursing's role in healthcare technology.

**Prerequisites:** admis to BSN @ Home Prog or cons instr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 454X Community Health Nursing**

3 cr. Undergraduate.

Nursing care of populations and communities to facilitate optimal health outcomes.

**Prerequisites:** admis to BSN @ Home Prog or cons instr.

**Course Rules:** Counts as repeat of UWS NSG 444.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 460 Legal Aspects of Nursing**

2 cr. Undergraduate.

Current legal aspects and issues in nursing, including courts, licensure problems, legal status of nursing and health personnel, contracts, torts, negligence, crimes, and wills.

**Prerequisites:** jr st or cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 476 Professional Role 4: Leading in Complex Systems**

3 cr. Undergraduate.

Synthesis of knowledge, skills, and attitudes for leading in complex healthcare environments.

**Prerequisites:** NURS 432(P).

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 477 Health and Illness Concepts 5: Complex**

3 cr. Undergraduate.

Application of selected concepts to individuals/families with complex health and illness needs.

**Prerequisites:** Nurs 432(P).

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 478 Clinical Practicum IV: Complex Care**

6 cr. Undergraduate.

Nursing leadership and nursing care management of individuals, families, and groups experiencing complex health problems.

**Prerequisites:** NURS 422(P), NURS 433(P), and NURS 353(P).

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 480 Transition to Professional Practice**

3 cr. Undergraduate.

Exploration of the new graduate professional role to enable a smooth transition to the first registered nurse position. Course is delivered in hybrid format.

**Prerequisites:** NURS 432(P).

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 490 Special Studies in Nursing**

1-5 cr. Undergraduate.

Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.

**Prerequisites:** consent of instructor.

**Course Rules:** May be retaken to max of 5 cr.

**Last Taught:** Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 490X Special Studies in Nursing**

1-5 cr. Undergraduate.

Independent study course. Students establish credits, objectives and learning experiences with approval of instructor.

**Prerequisites:** consent of instructor.

**Course Rules:** May be retaken to max of 5 cr.

**Last Taught:** Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in especially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken with change in topic; max of 9 cr for grad students.

**Last Taught:** UWinterIM 2024, UWinterIM 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM-sponsored program before course work levels, content, and credits are determined and/or in especially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken with change in topic; max of 9 cr for grad students.

**Last Taught:** UWinterIM 2024, UWinterIM 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 575 Global Health: Ethics and Human Rights**

3 cr. Undergraduate.

Explores the ethics and human rights issues related to disparities in financial, educational, technological, environmental, and political resources available to support healthy populations across the globe.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 620 Global Food Security and Systems**

3 cr. Undergraduate/Graduate.

In-depth investigation of global food systems and their impact on food security and development.

**Prerequisites:** junior standing or greater, or consent of instructor.

**Course Rules:** GLOBAL 620 and NURS 620 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 620G Global Food Security and Systems**

3 cr. Undergraduate/Graduate.

In-depth investigation of global food systems and their impact on food security and development.

**Prerequisites:** junior standing or greater, or consent of instructor.

**Course Rules:** GLOBAL 620 and NURS 620 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**NURS 653G Foundations in Pathophysiology for Nursing Practice**

4 cr. Graduate.

Mechanisms, manifestations, diagnosis and treatment of disease states for selected body systems as a foundation for nursing management of selected conditions.

**Prerequisites:** Admis to Master of Nursing prog.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 654G Health Assessment and Promotion**

3 cr. Graduate.

Application of concepts and skills to comprehensively assess the health status of individuals using functional health patterns as a framework.

**Prerequisites:** Admis to Masters in Nurs Prog or cons instr**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 657G Pharmacotherapeutics for Nursing Practice**

3 cr. Graduate.

Pharmacologic and pharmacotherapeutic concepts in the management of patients with complex conditions and illnesses across the continuum of care.

**Prerequisites:** Admis to Masters in Nurs Prog or cons instr**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 663G Transformation to Professional Practice**

2 cr. Graduate.

Direct entry students investigate the transformation from being a student nurse to becoming a registered nurse and prepare to practice at the graduate level while progressing toward advanced clinical generalist and leadership roles.

**Prerequisites:** NURS 688(P) or NURS 688(C).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 670G Nursing Care of Adults and Older Adults I**

3 cr. Graduate.

Nursing science related to health promotion, prevention, and illness management for adults and older adults within families, communities, and populations.

**Prerequisites:** Admis to Masters in Nurs Prog, NURS 653(C), NURS 657(C).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 671G Nursing Care of Adults and Older Adults II**

3 cr. Graduate.

Nursing science related to health promotion, prevention, and illness management for adults and older adults within families, communities, and populations.

**Prerequisites:** Admis to Masters in Nurs Prog, NURS 654(P), NURS 670(P).**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 672G Nursing Care of Women and Infants**

2 cr. Graduate.

Nursing science related to care of women, infants, and families in institutional and community care.

**Prerequisites:** Admis to Masters in Nurs Prog.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 673G Nursing Care of Children and Families**

2 cr. Graduate.

Nursing science related to care of children and families in acute, institutional, and community care settings.

**Prerequisites:** Admis to Masters in Nurs Prog.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 674G Mental Health Nursing Care Across the Lifespan**

2 cr. Graduate.

Nursing science, principles, and processes for the promotion of mental health and the prevention and management of mental illness across the lifespan.

**Prerequisites:** Admis to Masters in Nurs Prog.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 675G Nursing and Society**

3 cr. Graduate.

Introduces the student to professional nursing experiences nursing, via simulation, field work and post-clinical discussions. Begins the development of professional communication, clinical decision-making, and psychomotor skills necessary for the practice of professional nursing.

**Prerequisites:** graduate standing and in Master of Nursing program.**Course Rules:** Previously NURS 680G.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 681G Professional Role in Health Care Systems**

3 cr. Graduate.

Exploration and analysis of entry level professional nursing roles in health care systems.

**Prerequisites:** Admis to Masters in Nurs Prog; NURS 680(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 682G Professional Role in Health Care Systems II**

2 cr. Graduate.

Exploration and analysis of organizational environments, communication, and quality initiatives within interdisciplinary health care systems.

**Prerequisites:** Nurs 681(P).**Last Taught:** Summer 2010, Summer 2009, Summer 2008, Summer 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 683 Healthcare-Immigrants/Refugees**

3 cr. Undergraduate/Graduate.

Enables students to analyze the healthcare needs of immigrant and refugee populations and to identify potential healthcare interventions that would enhance health promotion and health protection for these populations.

**Prerequisites:** junior standing or graduate standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 683G Healthcare-Immigrants/Refugees**

3 cr. Undergraduate/Graduate.

Enables students to analyze the healthcare needs of immigrant and refugee populations and to identify potential healthcare interventions that would enhance health promotion and health protection for these populations.

**Prerequisites:** junior standing or graduate standing.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 684 Death and Dying Around the World**

3 cr. Undergraduate/Graduate.

Enables students to analyze the sociocultural considerations in the dying process for different regions of the world and the healthcare needs of different populations at the end of life.

**Prerequisites:** junior standing or graduate standing.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 684G Death and Dying Around the World**

3 cr. Undergraduate/Graduate.

Enables students to analyze the sociocultural considerations in the dying process for different regions of the world and the healthcare needs of different populations at the end of life.

**Prerequisites:** junior standing or graduate standing.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 685G Clinical Reasoning**

5 cr. Graduate.

Development and refinement of, and practice with, the clinical reasoning skills required for professional nursing practice.

**Prerequisites:** NURS 653(P), NURS 680(P), and NURS 657(C).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 686G Professional Nursing Practicum I**

3 cr. Graduate.

Intensive practicum experience providing nursing care to individuals, families, and groups within diverse populations across the health care continuum.

**Prerequisites:** Admis to Masters in Nurs Prog; NURS 685(P) and NURS 657(P).

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 687G Professional Nursing Practice Internship**

1 cr. Graduate.

Intensive clinical practice experience in a selected area of nursing.

**Prerequisites:** Nurs 686

**Last Taught:** Fall 2010, Fall 2009, Fall 2008, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 688G Professional Nursing Practicum II**

4 cr. Graduate.

Intensive practicum experience providing nursing care to individuals, families and groups within diverse populations across the health care continuum.

**Prerequisites:** Admis to Masters in Nurs Prog, NURS 686(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 690 Global Health Governance: Key Players, Financing and Challenges**

3 cr. Undergraduate/Graduate.

Historical evolution and mandate of global health institutions; changing role of key global actors in health governance; challenges and successes in responding to global health crises and pandemics.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** GLOBAL 690 and NURS 690 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 690G Global Health Governance: Key Players, Financing and Challenges**

3 cr. Undergraduate/Graduate.

Historical evolution and mandate of global health institutions; changing role of key global actors in health governance; challenges and successes in responding to global health crises and pandemics.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** GLOBAL 690 and NURS 690 are jointly offered; they count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 699G Transformation to Clinical Leadership**

1 cr. Graduate.

Prepares students for beginning a career as an advanced generalist registered nurse, with option for Certified Nurse Leader certification, in complex and changing healthcare environments.

**Prerequisites:** NURS 734(P).

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 702 Advanced Practice Nursing Adult-Gerontology Chronic Illness**

3 cr. Graduate.

Advanced practice nurse role in the assessment, differential diagnosis, and treatment of the adult-gerontology population with chronic health problems.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 703 Advanced Practice Nursing Adult-Gerontology Acute Illness**

3 cr. Graduate.

Advanced practice nurse role in the assessment, differential diagnosis, and treatment of the adult-gerontology population with acute health problems.

**Prerequisites:** grad st.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 704 Advanced Practice Nursing Adult-Gerontology Critical Illness**

3 cr. Graduate.

Advanced practice nurse role in the assessment, differential diagnosis, and treatment of the adult-gerontology population with critical health problems.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 705 Instructional Strategies for Patient Education**

3 cr. Graduate.

Study of instructional strategies applicable in patient education; opportunity to select, develop and evaluate the effectiveness of particular strategies in individual and/or group situations.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Fall 2011, Summer 1992, Summer 1991, Summer 1990.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 706 Clinical Outcomes Management and Information Systems**

3 cr. Graduate.

Synthesis of advanced generalist nursing knowledge, processes and practices that influence point of care health outcomes related to health promotion, risk reduction, and illness management.

**Prerequisites:** Admis grad prog in nursing or cons instr

**Last Taught:** Fall 2016, Fall 2015, Fall 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 707 Advanced Pharmacology: Application to Advanced Nursing Practice**

3 cr. Graduate.

Advanced knowledge related to use of pharmacotherapeutics in management of common health problems, nursing prescriptive authority, and development and use of clinical practice guidelines.

**Prerequisites:** grad st; admis to Nursing degree program; Nurs 753(P) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 708 Global Maternal and Child Health: From Evidence to Action**

3 cr. Graduate.

This course will focus on critical issues impacting the health of mothers, newborns, and children, using a global and a life course analytic approach.

**Prerequisites:** Grad st.

**Last Taught:** Spring 2022, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 709 Leading and Managing in Systems of Care**

3 cr. Graduate.

Evaluation of emerging nursing leadership and management concepts, theories, and research within diverse healthcare systems.

**Prerequisites:** grad st; admis to grad prog in nursing or cons instr

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 711 Economics of Health Care and Health Care Systems**

3 cr. Graduate.

Use of economic theory, models and principles to analyze decision-making by individuals, providers, third-party payers and governments in health and health care.

**Prerequisites:** Counts as repeat of NURS 779 with similar topic.

**Last Taught:** Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 712 Health Promotion Perspectives**

3 cr. Graduate.

Nursing and inter-professional health promotion concepts including planning, delivery and evaluation of health promotion strategies at the point of care in diverse settings.

**Prerequisites:** grad st; admis grad prog in nursing or cons instr

**Last Taught:** UWinteriM 2024, UWinteriM 2023, UWinteriM 2022, UWinteriM 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 716 Theoretical Foundations of Nursing Education**

3 cr. Graduate.

Introduction to the fundamental theories of teaching and learning applied within nursing education and philosophy.

**Prerequisites:** graduate standing or consent of instructor.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 717 Community Health Nursing**

3 cr. Graduate.

Nursing science related to the care of populations with focus on disease prevention and health promotion. Roles of community health nurses are explored.

**Prerequisites:** Admis to Masters in Nurs Prog; Nurs 727 (C)

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 718 Master of Nursing Education Residency I**

3 cr. Graduate.

Nursing curriculum development and the application of methods of teaching didactic nursing in classroom and online environments.

**Prerequisites:** NURS 716(P) and AD LDSP 757(P) or consent of instructor.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 719 Master of Nursing Education Residency II**

3 cr. Graduate.

Application of methods of teaching nursing within clinical and simulation environments.

**Prerequisites:** NURS 718(P).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 720 Biostatistics and Applications for Nursing Practice**

3 cr. Graduate.

Introduction to biostatistics with special emphasis on the identification, description, application, and interpretation of clinical data about nursing phenomena and nursing practice.

**Prerequisites:** grad st; undergrad statistics course w/ grade of B or better w/in last 5 yrs or cons inst

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 721 Pathophysiology and Pharmacology for the Advanced Generalist**

3 cr. Graduate.

Integration of pathophysiologic and pharmacologic therapy interventions for selected health conditions

**Prerequisites:** Admis grad prog in nursing or cons instr

**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 723 Evidence-Based Care Management**

3 cr. Graduate.

Analysis of evidence-based interventions and design of a program to address a priority issue in population health and health care delivery.

**Prerequisites:** grad st; Nurs 725(P)

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 725 Evidence Based Practice in Healthcare**

3 cr. Graduate.

Introduction to evidence based practice and research methods. Emphasis is on retrieval of information, critique and application in diverse health care practice settings.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 726 Advanced Perspectives on Cultural Diversity and Disparities in Health Care**

3 cr. Graduate.

This course will critically examine relationships between cultural diversity, health disparities and health care delivery to vulnerable populations.

**Prerequisites:** Admission to Doctor of Nursing Practice Program.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 728 Epidemiological Principles for Population Health**

3 cr. Graduate.

Study of the distribution and determinants of health and disease in populations, including related methods and application.

**Prerequisites:** Admission to Doctor of Nursing Practice Program.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 729 Organizational Systems**

3 cr. Graduate.

Study of systems of healthcare delivery emphasizing emerging healthcare models, financing and regulation of healthcare and the creation and evaluation of effective healthcare strategies.

**Prerequisites:** grad st; admis to grad degree program or cons instr.

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 731 Practicum and Seminar in Health Professional Education**

3 cr. Graduate.

Observation, participation, and practice in teaching in a health professional educational program.

**Prerequisites:** grad st

**Last Taught:** Spring 2021, Fall 2018, Fall 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 733 Integrated Clinical Concepts**

3 cr. Graduate.

Integrates advanced concepts of pathophysiology, pharmacology, and health assessment within the contexts of individual, family, and populations through use of clinical exemplars.

**Prerequisites:** Admission to Master of Nursing program, NURS 653(P), NURS 654(P), and NURS 657(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 734 Master of Nursing Residency I**

3 cr. Graduate.

Clinical practicum focused on providing evidence-based nursing care to a cohort of patients and families within a specific clinical setting.

**Prerequisites:** grad st; previously completed or concurrent enrollment in the following courses: NURS 707, NURS 723, NURS 753, and NURS 754.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 735 Theory for Advanced Practice**

3 cr. Graduate.

Study of knowledge base of nursing science. Concepts, frameworks and theories for nursing practice, for advanced roles with individuals, aggregates and systems.

**Prerequisites:** grad st; admis to Nursing degree program or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 741 Psychiatric Mental Health Theory I**

3 cr. Graduate.

This course provides a foundation in psychopathology for clinical assessment and patient management across the lifespan.

**Prerequisites:** NURS 781(C); NURS 707(P); NURS 753(P); NURS 754(P); and NURS 753(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 742 Psychiatric Mental Health Theory II**

3 cr. Graduate.

Introduction to psychiatric history taking, assessment, diagnostic evaluation, treatment modalities, and determinants of mental health for patients and families across the life span.

**Prerequisites:** NURS 782(C); NURS 741(P) and NURS 781(P).

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 743 Psychiatric Mental Health Theory III**

3 cr. Graduate.

Addresses issues and roles essential to the psychiatric mental health nurse practitioner. Promotes skill refinement in assessment, diagnostic formulation, and evidence-based treatment planning.

**Prerequisites:** NURS 783(C); NURS 742(P) and NURS 782(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 750 Outcomes and Quality Management**

3 cr. Graduate.

Examination, development and utilization of frameworks and tools for implementation and evaluation of health care program outcomes and quality management for groups of patients.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 751 Teaching in Practice Disciplines**

3 cr. Graduate.

Issues, theories, and strategies used for teaching in disciplines that require clinical learning for the development of needed critical thinking and performance abilities.

**Prerequisites:** grad st; cons instr

**Last Taught:** Summer 2013, Summer 2010, UWinteriM 2009, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 752 Curriculum Development in Nursing Education**

3 cr. Graduate.

Principles and techniques of nursing curriculum design, development, implementation and evaluation.

**Prerequisites:** grad st

**Last Taught:** Summer 2014, Summer 2012, Summer 2011, UWinteriM 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 753 Pathophysiologic Basis of Advanced Nursing Practice**

3 cr. Graduate.

Human physiologic responses to actual and potential health problems, methods of measurement, developmental and environmental influences, and implications for advance nursing practice.

**Prerequisites:** grad st; admis to Nursing degree program or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 754 Comprehensive Assessment of Health: Implications for Clinical Decision-Making**

3 cr. Graduate.

Comprehensive assessment of health in individuals and aggregates, including measurement of health status, appraisal of needs, analysis of environmental contexts, and development of diagnostic strategies.

**Prerequisites:** grad st; admis to Nursing degree program; Nurs 753(P); or cons instr.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 757 Family Nurse Practitioner Practicum I**

3 cr. Graduate.

First of a three-practicum sequence designed to provide practice experience caring for individuals, families, and populations in primary care settings.

**Prerequisites:** grad st; Nurs 707(P); Nurs 725(P); Nurs 727(P); Nurs 729(P); Nurs 735(P); Nurs 754(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 758 Family Nurse Practitioner Practicum II**

3 cr. Graduate.

Second of a three-practicum sequence focused on family nurse practitioner practice based on understanding the centrality of the patient-provider relationship.

**Prerequisites:** Nurs 757(P); 767(P); & 725(C).

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 759 Family Nurse Practitioner Practicum III**

3 cr. Graduate.

This is the last of a three-sequence practicum. Emphasis is on health policy, ethical, and professional issues that influence clinical decision-making in primary care.

**Prerequisites:** grad st; Nurs 758(P); 768(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 760 Processes of Aging**

3 cr. Graduate.

An overview of the processes of aging including biological, psychological, and sociological perspectives. Emphasis on theories of development, gerontological research findings, and health services applications.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 762 Family Theory and Intervention Strategies for Advanced Nursing Practice**

3 cr. Graduate.

Cognitive, affective, and behavioral principles related to the functioning of the family and its members. Emphasis on therapeutic interventions used in advanced nursing practice.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Fall 2001, Fall 2000, Summer 2000, Fall 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 763 Issues in Women's Health and Development**

3 cr. Graduate.

Current physical, mental health, and developmental issues affecting women. Examination of the role of gender in health care research and clinical practice.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Summer 2022, Summer 2020, Summer 2019, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 764 Changing Health Behaviors**

3 cr. Graduate.

Enhancement of knowledge related to the process of behavioral change, models of change, factors that affect change behavior, and issues related to measuring change.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Summer 2010, Fall 1991.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 766 Advanced Practice Nursing: Care of the Child and Family**

3 cr. Graduate.

Course focuses on the responsibilities of the advanced practice nurse specializing in the diagnosis and treatment of the pediatric population with chronic health problems.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as a repeat of NURS 779 with similar topic.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 767 Family Nurse Practitioner Theory I**

3 cr. Graduate.

Introductory course designed to prepare family nurse practitioners to deliver health care to individuals, families, and populations

**Prerequisites:** grad st; Nurs 707(P); Nurs 725(P); Nurs 727(P); Nurs 729(P); Nurs 735(P); Nurs 754(P)

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 768 Family Nurse Practitioner Theory II**

3 cr. Graduate.

Second of a three-course sequence focused on the delivery of primary care services within a relationship-centered care framework.

**Prerequisites:** Nurs 757(P); 767(P); & 725(C).

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 769 Family Nurse Practitioner Theory III**

3 cr. Graduate.

Last of a three-sequence course focused on health policy and professional issues that affect the delivery of primary care by family nurse practitioners.

**Prerequisites:** Nurs 758(P); 768(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 770 Nursing Administration**

3 cr. Graduate.

Relevant topics grounded in research and theory that are related to professional development of nursing leadership and management roles in health care organizations.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Spring 2021, Spring 2019, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 771 Nursing Administration Practicum**

3 cr. Graduate.

Applying theory and research, the student will explore, discuss, and actively participate in an advanced administration practice role in a healthcare organization.

**Prerequisites:** grad st or cons instr.**Last Taught:** Fall 2014, Spring 2014, Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 772 Advanced Practice Nursing: Maternal-Infant and Women's Health**

3 cr. Graduate.

Course focuses on the integration of advanced practice nursing management for the population of women, mothers, and infants across the continuum of care.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of NURS 779 with similar topic.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 773 Information Systems to Support Clinical Decision-Making**

3 cr. Graduate.

Basic concepts of nursing informatics are examined with emphasis on application to clinical practice to improve the quality of care.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 774 Trauma Counseling I: Theory and Research**

3 cr. Graduate.

Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.

**Prerequisites:** grad st**Course Rules:** Couns 774, Nurs 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 775 Trauma Counseling II: Diagnosis and Treatment**

3 cr. Graduate.

Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.

**Prerequisites:** graduate standing, COUNS 744(P), NURS 775(P), OCCTHPY 774(P) or SOC WRK 774(P); or consent of instructor.**Course Rules:** COUNS 775, NURS 775, OCCTHPY 775, and SOC WRK 775 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Spring 2020, Spring 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 776 Clinical Informatics**

3 cr. Graduate.

Examine the development, implementation and evaluation of clinical informatics solutions to facilitate the use of information and communication technologies within and across health care delivery systems.

**Prerequisites:** grad st**Course Rules:** Online only.**Last Taught:** Fall 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 779 Special Topics Seminar:**

1-5 cr. Graduate.

Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** grad st or cons instr.**Course Rules:** May be repeated with change in topic to max of 9 cr.**Last Taught:** UWinteriM 2024, Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 780 Study Abroad:**

1-9 cr. Graduate.

Designed to enroll graduate students in UWM-sponsored program before content and credits are determined and/or in especially prepared program course work.

**Prerequisites:** Acceptance for Study Abroad Program.**Course Rules:** May be taken w/ chg in topic to 9 cr max.**Last Taught:** Summer 2019, UWinteriM 2018, Summer 2017, UWinteriM 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 781 Psychiatric Mental Health NP Practicum I**

3 cr. Graduate.

This is the first of a three-sequence practicum. Emphasis is on beginning clinical assessment, diagnostic evaluation, and beginning management of patients with psychiatric disorders.

**Prerequisites:** NURS 754 or its equivalent; NURS 753 or its equivalent; NURS 707 or its equivalent (Grad assessment; patho and pharm). Taken concurrently with NURS 741**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 782 Psychiatric Mental Health NP Practicum II**

3 cr. Graduate.

This is the second of a three-sequence practicum. Emphasis is on advanced clinical assessment (including social/environmental determinants of health), diagnostic evaluation, and treatment planning.

**Prerequisites:** NURS 741 and NURS 781. Taken concurrently with NURS 742**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 783 Psychiatric Mental Health NP Practicum III**

3 cr. Graduate.

This is the third of a three-sequence practicum. Emphasis is on developing progressive competence in diagnosis and treatment of patients and families with complex needs.

**Prerequisites:** NURS 742 and NURS 782. Taken concurrently with NURS 743.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 784 Advanced Nursing Practice Interventions**

3 cr. Graduate.

Advanced knowledge and skills for developing, implementing, and evaluating nursing interventions for common nursing phenomena with individuals and aggregates.

**Prerequisites:** grad st; NURS 725(P); admis to Nursing degree program or cons instr.**Last Taught:** Spring 2012, Fall 2011, Spring 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 789 Master of Nursing Residency II**

3 cr. Graduate.

Intensive clinical immersion experience during which students implement the role of the masters-prepared nurse.

**Prerequisites:** grad st and NURS 734(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 791 Clinical Informatics Practicum I**

3 cr. Graduate.

First semester of a 3-semester practicum focused on the application of clinical informatics within healthcare settings to facilitate evidence-based nursing practice and improve outcomes.

**Prerequisites:** grad st**Course Rules:** Clinical practicum hours for each student will take place at the assigned clinical site as negotiated with the clinical preceptor and faculty.**Last Taught:** Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 792 Clinical Informatics Practicum II**

3 cr. Graduate.

Second semester of a 3-semester practicum focused on the application of clinical informatics within healthcare settings to facilitate evidence-based nursing practice and improve outcomes.

**Prerequisites:** grad st**Course Rules:** Clinical practicum hours for each student will take place at the assigned clinical site as negotiated with the clinical preceptor and faculty.**Last Taught:** Summer 2017, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 793 Clinical Informatics Practicum III**

3 cr. Graduate.

Third semester of a 3-semester practicum focused on the application of clinical informatics within healthcare settings to facilitate evidence-based nursing practice and improve outcomes.

**Prerequisites:** grad st**Course Rules:** Clinical practicum hours for each student will take place at the assigned clinical site as negotiated with the clinical preceptor and faculty.**Last Taught:** Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 797 Independent Study for Graduate Students**

1-6 cr. Graduate.

Opportunity for students to pursue study in a subject area of special need or interest under guidance of graduate faculty.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2022, Spring 2018, Fall 2016, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 801 Foundations of Inquiry for Health Research**

3 cr. Graduate.

Study of historical evolution of contemporary health science in terms of important philosophical and empirical antecedents.

**Prerequisites:** admis to doctoral prog in Nursing or cons instr.**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 802 The Science of Nursing**

3 cr. Graduate.

Study of nursing science through the exploration of the interrelationships among the theory, research, and practice of nursing.

**Prerequisites:** admis to doctoral prog in nursing or cons instr; Nurs 801(NP).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 803 Health Policy**

3 cr. Graduate.

Explores the roles and accountability of health care providers and scientists in responding to the health and social needs of the public and shaping of public policy.

**Prerequisites:** admis to doctoral prog or cons instr**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 804 Healthcare Organization and Systems Leadership for Advanced Practice**

3 cr. Graduate.

This course focuses on synthesis of leadership concepts for advanced practice nurses in complex healthcare delivery systems.

**Prerequisites:** Admission to Doctor of Nursing Practice Program.**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 805 Translational and Implementation Science**

3 cr. Graduate.

In depth exploration of approaches to use of translational and implementation science in the development of practice guidelines and protocols and evaluation of practice change.

**Prerequisites:** NURS 725.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 808 Multivariate Statistics for Healthcare**

3 cr. Graduate.

A study of commonly used multivariate statistical methods as well as their applications to practical data analysis with emphasis on nursing and health care research.

**Prerequisites:** Grad st**Last Taught:** Summer 2023, Spring 2023, Spring 2022, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 809 Integrative Studies**

3 cr. Graduate.

Synthesis of ideology and content in the student's specialty area with regard to the research, theory development, and policy roles of the emerging nurse scholar.

**Prerequisites:** grad st or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 810 Leadership for Advanced Practice in Healthcare**

3 cr. Graduate.

Synthesis of leadership concepts of advanced nursing practice. Interdisciplinary and ethical practice and leading multiple constituencies are emphasized from an evidence based perspective.

**Prerequisites:** grad st**Last Taught:** Fall 2019, Spring 2019, Fall 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 811 Clinical Nurse Specialist Practicum I-Psychiatric/Mental Health**

3 cr. Graduate.

First semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the psychiatric/mental health population.

**Prerequisites:** grad st; Nurs 707(P), 725(P), 754(P)**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 812 Clinical Nurse Specialist Practicum II-Psychiatric/Mental Health**

3 cr. Graduate.

Second semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the psychiatric/mental health population.

**Prerequisites:** grad st: Nurs 811(P)**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 813 Clinical Nurse Specialist Practicum III-Psychiatric/Mental Health**

3 cr. Graduate.

Third semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the psychiatric/mental health population.

**Prerequisites:** grad st: Nurs 812(P)**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 814 Clinical Nurse Specialist Practicum I-Maternal/Infant**

3 cr. Graduate.

First semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the maternal/infant population.

**Prerequisites:** grad st; NURS 707(P), 725(P), 754(P)**Last Taught:** Spring 2022, Spring 2020, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 815 Clinical Nurse Specialist Practicum II-Maternal/Infant**

3 cr. Graduate.

Second semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the maternal/infant population.

**Prerequisites:** grad st: Nurs 814(P)**Last Taught:** Summer 2022, Summer 2020, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 816 Clinical Nurse Specialist Practicum III-Maternal/Infant**

3 cr. Graduate.

Third semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the maternal/infant population.

**Prerequisites:** grad st; NURS 815(P)**Last Taught:** Fall 2022, Fall 2020, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 817 Clinical Nurse Specialist Practicum I-Pediatric**

3 cr. Graduate.

First semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the pediatric population.

**Prerequisites:** grad st; NURS 707(P), 725(P), 754(P)**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 818 Clinical Nurse Specialist Practicum II-Pediatric**

3 cr. Graduate.

Second semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the pediatric population.

**Prerequisites:** grad st; NURS 817(P)**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 819 Clinical Nurse Specialist Practicum III-Pediatric**

3 cr. Graduate.

Third semester of a 3-semester practicum focused on advanced practice nursing in a Clinical Nurse Specialist role with the pediatric population.

**Prerequisites:** grad st; NURS 818(P)**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 820 Analysis of Nursing Phenomena**

3 cr. Graduate.

Exploration of selected phenomena relevant to nursing through the evaluation and synthesis of scientific knowledge and grant proposal development.

**Prerequisites:** Admis to doctoral prog in Nursing; Nurs 802(P)**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 822 Adult-Gerontology Acute Care Nurse Practitioner Practicum I**

3 cr. Graduate.

First semester of a 3-semester practicum focused on advanced practice nursing in an Acute Care Nurse Practitioner role with the adult-gerontology population.

**Prerequisites:** NURS 707(P), NURS 753(P) and NURS 754(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 823 Adult-Gerontology Acute Care Nurse Practitioner Practicum II**

3 cr. Graduate.

Second semester of a 3-semester practicum focused on advanced practice nursing in an Acute Care Nurse Practitioner role with the adult-gerontology population.

**Prerequisites:** NURS 822(P).**Last Taught:** Summer 2023, Summer 2022, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 824 Adult-Gerontology Acute Care Nurse Practitioner Practicum III**

3 cr. Graduate.

Third semester of a 3-semester practicum focused on advanced practice nursing in an Acute Care Nurse Practitioner role with the adult-gerontology population.

**Prerequisites:** NURS 823(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 825 Evidence Based Practice in Healthcare II**

3 cr. Graduate.

In depth exploration of approaches to development of practice guidelines and protocols and evaluation of practice change.

**Prerequisites:** grad st; NURS 725(P); grad level course in biostatistics**Last Taught:** Summer 2019, Summer 2018, Summer 2017, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**NURS 826 Nurse Executive Practicum I**

3 cr. Graduate.

First semester of a 3-semester practicum focused on the application of theory and research in nurse executive practice.

**Prerequisites:** Nurs 810(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 827 Nurse Executive Practicum II**

3 cr. Graduate.

Second semester of a 3-semester practicum focused on the application of theory and research in nurse executive practice.

**Prerequisites:** Nurs 826(P).**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 828 Nurse Executive Practicum III**

3 cr. Graduate.

Third semester of a 3-semester practicum focused on the application of theory and research in nurse executive practice.

**Prerequisites:** Nurs 827(P).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 829 Advanced Community/Public Health Nursing Practicum I**

3 cr. Graduate.

First semester of a three-semester practicum focused on the application of theory and research in advanced community/public nursing health practice.

**Prerequisites:** Nurs 835(P).**Last Taught:** Spring 2017, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 830 Advanced Community/Public Health Nursing Practicum II**

3 cr. Graduate.

Second semester of a three-semester practicum focused on the application of theory and research in advanced community/public nursing health practice.

**Prerequisites:** Nurs 836(P), 829(P).**Last Taught:** Summer 2017, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 831 Advanced Community/Public Health Nursing Practicum III**

3 cr. Graduate.

Third semester of a three-semester practicum focused on the application of theory and research in advanced community/public nursing health practice.

**Prerequisites:** Nurs 830(P).**Last Taught:** Fall 2017, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 832 Clinical Nurse Specialist Practicum I-Adult/Gerontology**

3 cr. Graduate.

First semester of a 3-semester practicum focused on advanced practice nursing in a clinical nurse specialist role with the adult / geriatric population.

**Prerequisites:** grad s; NURS 707(P), 725(P), 754(P)**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 833 Clinical Nurse Specialist Practicum II-Adult/Gerontology**

3 cr. Graduate.

Second semester of a 3-semester practicum focused on advanced practice nursing in a clinical nurse specialist role with the adult/geriatric population.

**Prerequisites:** grad st; NURS: 832(P)**Last Taught:** Summer 2023, Summer 2022, Summer 2020, Summer 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 834 Clinical Nurse Specialist Practicum III-Adult/Gerontology**

3 cr. Graduate.

Third semester of a 3-semester practicum focused on advanced practice nursing in a clinical nurse specialist role with the adult/geriatric population.

**Prerequisites:** grad st; NURS 833(P)**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 835 Theoretical Basis for Advanced Community / Public Health Nursing**

3 cr. Graduate.

Theoretical knowledge, skills, and attitudes relevant to advanced community/public health practice, education, management and research.

**Prerequisites:** Admis to Nurs doctoral prog**Last Taught:** Fall 2015, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 836 Advanced Community Health Nursing - Assessment, Program Planning, Evaluation**

3 cr. Graduate.

Knowledge, skills and attitudes required for community assessment, program planning and evaluation.

**Prerequisites:** grad st; Nurs 835(P) or cons instr**Last Taught:** Spring 2016, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 879 Special Topics in Nursing Research:**

1-3 cr. Graduate.

Intensive study of selected research methodologies used to investigate nursing phenomena; topics vary by sections.

**Prerequisites:** admis to doctoral prog in nursing or cons instr.**Course Rules:** May be repeated with change of topic to max of 9 cr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 881 Measurement for Health Research**

3 cr. Graduate.

Study of theories of measurement and scaling, properties of research instruments, design and testing of instruments for health research.

**Prerequisites:** admis to doctoral prog in nursing or cons instr.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**NURS 882 Qualitative Methods in Health Research**

3 cr. Graduate.

Diverse qualitative design and analysis strategies used in the study of health phenomena. Emphasis will be to critique existing research and to plan future research.

**Prerequisites:** admis to doctoral prog in nursing or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 883 Quantitative Methods in Health Research**

3 cr. Graduate.

Major quantitative designs and data management/analysis strategies used in clinical health research. Emphasis will be to critique existing research and to plan future research.

**Prerequisites:** admis to doctoral prog in Nursing or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 884 Computer Applications for Qualitative Analysis**

1 cr. Graduate.

Types, uses, and implications of computer applications for qualitative data analysis; includes in-depth experience with a selected program.

**Prerequisites:** Nurs 882 (P), or Ad Ldsp 729 (P), or Urb Std 979 (P), or Educ 881 (P); or cons instr.

**Last Taught:** UWinteriM 2007, UWinteriM 2005, UWinteriM 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 885 Advanced Quantitative Methods in Health Research**

3 cr. Graduate.

In depth study of quantitative research methods with an emphasis on decision making for intervention studies and research with large data sets, advanced analytic strategies, communicating and interpreting results.

**Prerequisites:** grad st; Nurs 883(P), Nurs 881(P), Multivariate Statistics(P) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 886 Advanced Qualitative Methods in Health Research**

3 cr. Graduate.

Enable student to acquire the advanced knowledge and skills needed to design and implement studies best suited to qualitative modes of investigation.

**Prerequisites:** grad st; Nurs 882(P) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Summer 2016, Fall 2010, Summer 2010, Summer 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 890 Issues in Scholarship**

3 cr. Graduate.

Critical analysis of issues in scholarship and development of skills in literature review, scholarly discourse, and ethical conduct of research.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 897 Independent Study for Doctoral Students**

1-6 cr. Graduate.

Opportunity for the student to pursue study in a subject area of special need or interest under the guidance of graduate faculty.

**Prerequisites:** doctoral student status; cons instr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 899 Practicum in Nursing:**

1-6 cr. Graduate.

Mastery of research skills and techniques through participation in faculty research, some of which may include skill development in leadership/ education.

**Prerequisites:** graduate standing in doctoral program in nursing or consent of instructor.

**Course Rules:** May be repeated to a total of 6 cr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 991 Research and Thesis**

1-3 cr. Graduate.

Independent research and thesis writing under the supervision of member of graduate faculty.

**Prerequisites:** grad st; cons advisor UWM School of Nursing.

**Course Rules:** May be retaken to max of 3 cr.

**Last Taught:** Summer 2015, Spring 2015, Fall 2014, Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 993 DNP Project I: Plan**

2 cr. Graduate.

The focus of the course is identifying a mentor and beginning to analyze a complex problem or issue within a health care or community-based setting.

**Prerequisites:** DNP student; NURS 750, NURS 804 and NURS 805.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 994 DNP Project II: Proposal**

2 cr. Graduate.

The focus of the course is developing a detailed plan for a DNP project that addresses a complex problem or issue and demonstrates clinical scholarship.

**Prerequisites:** NURS 993.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 995 DNP Project III: Leadership Practice Immersion**

1-4 cr. Graduate.

The focus of the course is implementation and evaluation of a DNP project that demonstrates leadership and the foundation for future practice scholarship.

**Prerequisites:** grad st, admis to candidacy for the DNP, and NURS 994.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NURS 997 Doctoral Dissertation**

3 cr. Graduate.

**Prerequisites:** grad st; admis to candidacy for the PhD; cons advisor.

**Course Rules:** May be repeated.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Nutritional Sciences (NUTR)

### NUTR 101 New Student Seminar in Nutritional Sciences & Pre-Dietetics

1 cr. Undergraduate.

Introduction to the Nutritional Sciences major, and nutrition and dietetics-related professions.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 110 Introduction to Food Principles & Preparation

3 cr. Undergraduate.

Introduction to the physical and chemical properties of foods, food safety and sanitation, food preparation procedures, and evaluation of prepared food products in a lab setting.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 210 Food Science

3 cr. Undergraduate.

Continued study of the physical/chemical properties of foods; topics include food composition and nutrition, food additives and regulations, food safety and processing, food engineering.

**Prerequisites:** grade of C or better in Nutr 110(P).

**Last Taught:** Fall 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 230 Health Aspects of Exercise and Nutrition

3 cr. Undergraduate.

Examines physical fitness and proper nutrition as lifestyle choices in maintaining optimal health and minimizing health risks.

**Prerequisites:** none.

**Course Rules:** Not open to students with credit in KIN 530, KIN 532, or PRPP 736. KIN 230 and NUTR 230 are jointly offered; they count as repeats of one another.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 235 Introduction to Nutrition for the Health Professions

3 cr. Undergraduate.

A broad, science-based, practical knowledge of nutritional science and metabolism to prepare for health and nutrition professions.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of KIN 290 with the same topic.

**Last Taught:** Spring 2022, Fall 2021, Summer 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 240 Nutrition for Exercise and Wellness

3 cr. Undergraduate.

The role of nutrition in supporting health, wellness, and exercise on a national, state, community, and individual level.

**Prerequisites:** grade of C or better in Nutr 235(P) or BMS 232(P).

**Course Rules:** Counts as repeat of Kin 290 w/same topic.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 241 Why We Eat What We Eat: An Ecological Approach

3 cr. Undergraduate.

Examination of food choice and eating behavior using a multilevel, social ecological perspective. Nutrition and health implications will be discussed.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 245 Life Cycle Nutrition

3 cr. Undergraduate.

An exploration of physiological, sociological, and developmental factors that affect humans nutritional needs and recommendations throughout the life cycle.

**Prerequisites:** a grade of C or better in NUTR 235(P) or BMS 232(P).

NUTR 241(R).

**Course Rules:** Counts as a repeat of BMS 290 with the same topic.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 290 Special Topics in Nutritional Sciences:

1-3 cr. Undergraduate.

Topics of current interest in nutritional sciences, food, and health. Special course fees may be required depending on course. May be retaken w/chg in topic.

**Prerequisites:** specified in sem schedule whenever required for a topic.

**Last Taught:** Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 297 Study Abroad:

1-12 cr. Undergraduate.

Designed to enroll students in a UWM sponsored program before course work level, content, and credits are determined and/or in specifically prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 305 Hunger at Home: Food and Nutrition Security in Milwaukee County

3 cr. Undergraduate.

Course informed by stakeholders and community leaders involved in anti-hunger/food security initiatives in Milwaukee County. Integration of problem-based learning challenges students to work in small groups to seek solutions to complex problems and real-world scenarios.

**Prerequisites:** BMS 232(R) or NUTR 235(R).

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### NUTR 350 Nutrition Communication and Education

3 cr. Undergraduate.

Approaches to nutrition and health communication and education; development of nutrition and health-related communication materials for target audiences.

**Prerequisites:** COMMUN 103(P); ENGLISH 102(P); a grade of C or better in the following: NUTR 110(P), NUTR 230(P) or KIN 230(P), NUTR 235(P) or BMS 232(P), and NUTR 241(P) or NUTR 241(C).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 355 Modifying Nutrition and Eating Behavior**

3 cr. Undergraduate.

Introduction to nutrition assessment and evidence-based approaches to facilitate dietary change. Determinants of eating behavior, including cultural considerations, will be integrated throughout the course.

**Prerequisites:** a grade of C or better in NUTR 245(P), or concurrent enrollment in NUTR 245.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 430 Advanced Nutrition and Metabolism**

3 cr. Undergraduate/Graduate.

Study of nutrients and their specific functions in metabolic processes; integrating physiology, biochemistry, and nutrition.

**Prerequisites:** CHEM 103(P) or previous completion or concurrent enrollment in CHEM 501 and a grade of C or better in NUTR 245(P); or graduate standing enrolled in the MPH Nutrition & Dietetics track; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 430G Advanced Nutrition and Metabolism**

3 cr. Undergraduate/Graduate.

Study of nutrients and their specific functions in metabolic processes; integrating physiology, biochemistry, and nutrition.

**Prerequisites:** CHEM 103(P) or previous completion or concurrent enrollment in CHEM 501 and a grade of C or better in NUTR 245(P); or graduate standing enrolled in the MPH Nutrition & Dietetics track; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 435 Nutrition and Disease Prevention**

3 cr. Undergraduate.

Evidence-based examination of the role of food, nutrients, dietary patterns, and eating behaviors in the primary, secondary, and tertiary prevention of chronic disease.

**Prerequisites:** BIO SCI 150(P); BIO SCI 203(P); a grade of C or better in NUTR 230(P) or KIN 230(P), and NUTR 245(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 440 Innovative Approaches to Health and Wellness Coaching**

3 cr. Undergraduate.

Study of health and wellness coaching theory and practice related to health behavior change.

**Prerequisites:** senior standing or consent of instructor.

**Course Rules:** Counts as repeat of KIN 590 with same topic. KIN 440 was previously KIN 482. KIN 440 and NUTR 440 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 470 Nutritional Sciences Capstone Experience**

3 cr. Undergraduate.

Supervised internship experience and professional preparation course to be taken the last semester of the undergraduate Nutritional Sciences major.

**Prerequisites:** senior standing, declared Nutritional Sciences major, a grade of C or higher in NUTR 350(P) and NUTR 435(P) or (C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 484 Community Nutrition Supervised Practice I**

2 cr.

Guided by a preceptor, students are introduced to organizations delivering nutrition care in community settings; introductory skills for dissemination of nutrition information are practiced.

**Prerequisites:** Nutr 345(C) & 355(C); admis Coord Prog in Dietetics.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** Retakeable w/chg in topic.

**Last Taught:** Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 555 Public Health Nutrition and Food Politics**

3 cr. Undergraduate/Graduate.

This course highlights the role of food and nutrition in public health programs and services.

**Prerequisites:** junior standing and a grade of C or better in NUTR 245(P); PH 101(R) and NUTR 350(R); or graduate standing and PH 705(R).

**Course Rules:** Counts as repeat of BMS(KIN) 290 with the same topic.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 555G Public Health Nutrition and Food Politics**

3 cr. Undergraduate/Graduate.

This course highlights the role of food and nutrition in public health programs and services.

**Prerequisites:** junior standing and a grade of C or better in NUTR 245(P); PH 101(R) and NUTR 350(R); or graduate standing and PH 705(R).

**Course Rules:** Counts as repeat of BMS(KIN) 290 with the same topic.

**Last Taught:** Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 556 Multilevel Approaches to Changing Physical Activity and Eating Behaviors**

3 cr. Undergraduate/Graduate.

An introduction to key theoretical and conceptual frameworks for understanding health-related behavior and evidence-based practical approaches for promoting behavior change.

**Prerequisites:** a grade of C or better in KIN 350(P); or graduate standing; or consent of instructor.

**Course Rules:** Counts as repeat of KIN 590 with the same topic. KIN 556 and NUTR 556 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 556G Multilevel Approaches to Changing Physical Activity and Eating Behaviors**

3 cr. Undergraduate/Graduate.

An introduction to key theoretical and conceptual frameworks for understanding health-related behavior and evidence-based practical approaches for promoting behavior change.

**Prerequisites:** a grade of C or better in KIN 350(P); or graduate standing; or consent of instructor.

**Course Rules:** Counts as repeat of KIN 590 with the same topic. KIN 556 and NUTR 556 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 574 Obesity and Weight Management**

3 cr. Undergraduate/Graduate.

Examination of the epidemiology of obesity, genetic and environmental contributors, body weight regulation, health and psychosocial consequences, and approaches to assessment, prevention, and treatment.

**Prerequisites:** junior standing and a grade of C or better in BMS 232(P) or NUTR 235(P).

**Course Rules:** Counts as repeat of KIN 590 with same topic. KIN 574 and NUTR 574 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 574G Obesity and Weight Management**

3 cr. Undergraduate/Graduate.

Examination of the epidemiology of obesity, genetic and environmental contributors, body weight regulation, health and psychosocial consequences, and approaches to assessment, prevention, and treatment.

**Prerequisites:** junior standing and a grade of C or better in BMS 232(P) or NUTR 235(P).

**Course Rules:** Counts as repeat of KIN 590 with same topic. KIN 574 and NUTR 574 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 580 Sports Nutrition**

3 cr. Undergraduate/Graduate.

The integration and application of nutrition and exercise science principles to maximize health, fitness, and sport performance.

**Prerequisites:** junior standing and a grade of C or better in NUTR 235(P) or BMS 232(P).

**Course Rules:** Counts as a repeat of NUTR 550, or BMS 590 or KIN 590 with similar topic. NUTR 580 and KIN 580 are jointly offered; they count as repeats of one another.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 580G Sports Nutrition**

3 cr. Undergraduate/Graduate.

The integration and application of nutrition and exercise science principles to maximize health, fitness, and sport performance.

**Prerequisites:** junior standing and a grade of C or better in NUTR 235(P) or BMS 232(P).

**Course Rules:** Counts as a repeat of NUTR 550, or BMS 590 or KIN 590 with similar topic. NUTR 580 and KIN 580 are jointly offered; they count as repeats of one another.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 701 Nutrition Counseling**

3 cr. Graduate.

Students will learn and practice evidence-based, client-centered techniques used in individual and group counseling, within the scope of practice for dietetic professionals. Select aspects of nutritional assessment are integrated into the course.

**Prerequisites:** graduate standing enrolled in the MPH Nutrition & Dietetics track.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 702 Advanced Nutrition Education**

3 cr. Graduate.

A practical course for future nutrition educators on how to design, deliver, and evaluate educational interventions and programs for diverse audiences that are grounded in scientific evidence and theory.

**Prerequisites:** graduate standing enrolled in the MPH Nutrition & Dietetics track; PH 706(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 703 Culinary Medicine for Nutrition & Dietetic Professionals**

3 cr. Graduate.

Through demonstrations and hands-on practice of fundamental culinary skills, students will learn how to integrate nutrition and culinary knowledge and skills to facilitate health, well-being, and prevention and treatment of disease in individuals and groups.

**Prerequisites:** graduate standing enrolled in the MPH Nutrition & Dietetics track; NUTR 701(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 704 Current and Emergent Issues in Nutrition & Dietetics**

1 cr. Graduate.

Examines current and emergent issues in nutrition and dietetics. Students will utilize peer-reviewed research, evidence-based analyses, and national and international nutrition guidelines and recommendations while exploring timely nutrition-related topics and trends.

**Prerequisites:** graduate standing, enrolled in the MPH in Nutrition and Dietetics track, and NUTR 430(P); or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 721 Medical Nutrition Therapy I**

4 cr. Graduate.

First course in the medical nutrition therapy series which explores disease pathology, nutrition assessment, and nutrition intervention for various disease states with an emphasis on chronic disease.

**Prerequisites:** graduate standing, enrolled in the MPH in Nutrition and Dietetics track, and NUTR 430(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 722 Medical Nutrition Therapy II**

4 cr. Graduate.

Second course in the medical nutrition therapy series which continues to explore disease pathology, nutrition assessment, and nutrition intervention for various disease states with an emphasis on critical illness.

**Prerequisites:** graduate standing, enrolled in the MPH in Nutrition and Dietetics track, and NUTR 721(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 795 Food Systems Management & Field Experience**

5 cr. Graduate.

Introduces students to foodservice operations, quantity food production, design of foodservice facilities, and management of foodservice operations. In the second half of the course, students will participate in a supervised food systems management field experience.

**Prerequisites:** graduate standing enrolled in the MPH Nutrition & Dietetics track; NUTR 703(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 796 Medical Nutrition Therapy Field Experience**

5 cr. Graduate.

Students will engage in supervised experiential learning opportunities in medical nutrition therapy within clinical practice settings, including the application of the nutrition care process to increasingly complex medical conditions.

**Prerequisites:** graduate standing enrolled in the MPH Nutrition & Dietetics track; NUTR 722(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**NUTR 800 Professional Preparation in Nutrition & Dietetics**

2 cr. Graduate.

Students in the last semester of their program will explore topics and develop skills important to professional life including ethics, developing a professional development portfolio, licensure/certification, and preparing for the RDN exam and job market.

**Prerequisites:** graduate standing enrolled in the MPH in Nutrition and Dietetics track.

**Course Rules:** Must be taken in the final semester of the program.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Occupational Therapy (OCCTHPY)

**OCCTHPY 151 Foundations of Scientific Inquiry for Occupational Science and Technology**

3 cr. Undergraduate.

Foundation of basic inquiry skills needed to pursue a career in health sciences. Attention is paid to observation, collection, visualization and reporting skills.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of OCCTHPY 290 with the same topic.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 201 Introduction to Occupational Science and Technology**

3 cr. Undergraduate.

Survey of professions related to disability, occupation, assistive and quality of life technologies and rehabilitation.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 220 Gizmos and Gadgets: Introduction to Assistive Technology**

1-3 cr. Undergraduate.

Survey of historical, current, and emerging assistive technology devices, services, and rehabilitation and disability through use of internet resources, print resources and guest speakers.

**Prerequisites:** none.

**Course Rules:** Counts as repeat of OccThpy 290 w/same topic. May be retaken to 3 cr max.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective**

3 cr. Undergraduate.

Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.

**Prerequisites:** sophomore standing or consent of instructor.

**Course Rules:** BMS 245, COMSDIS 245, HCA 245, KIN 245, OCCTHPY 245, and THERREC 245 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 250 Concepts of Time and Occupation**

3 cr. Undergraduate.

Examines the science and application of time related to human occupation, activity, and health through interactive and hands-on learning activities, videos and guest speakers.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 260 Enhancing Health Through Activity, Occupation and Technology I**

3 cr. Undergraduate.

Introduction to the role of activities, occupations, and technology in the promotion of good health and as interventions for individuals, groups and communities.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 280 Applied Human Anatomy for Health Professionals**

3 cr. Undergraduate.

In-depth study of the human body with emphasis on applications pertinent to health professionals.

**Prerequisites:** Bio Sci 203(P) or cons instr.

**Course Rules:** Special course fee assessed for lab materials.

**Last Taught:** Spring 2009, Fall 2008, Spring 2008, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 290 Topics in Occupational Therapy:**

1-3 cr. Undergraduate.

Topics of current interest in occupational therapy. See Schedule of Classes for course offerings. May be retaken with change in topic to max of 9 cr. Prereq: none. Additional prereqs will be listed in the schedule of classes as appropriate.

**Prerequisites:** none.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Spring 2018, Spring 2017, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 297 Study Abroad - Occupational Therapy:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work.

**Prerequisites:** acceptance to Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 301 Applied Neuroscience for Health Professionals**

3 cr. Undergraduate.

A functional approach to the human nervous system and neuropathology. Orientation to evaluation and treatment for neurological disorders.

**Prerequisites:** admis to Occupational Therapy program; KIN 325(P) or (C), or consent of instructor.

**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 305 Applied Psychopathology**

3 cr. Undergraduate.

Survey of psychopathology, psychosocial rehabilitative treatment theory and practice used in mental health settings.

**Prerequisites:** acceptance in Occupational Therapy program or consent of instructor.

**Last Taught:** Fall 2014, Fall 2013, Fall 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 308 Musculoskeletal Pathology and Occupational Function**

2 cr. Undergraduate.

The origin, nature, and course of musculoskeletal disorders are described and analyzed within the context of occupational performance and occupational biomechanics.

**Prerequisites:** admitted to the Occupational Therapy program.

**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 315 Group Process in Rehabilitation**

3 cr. Undergraduate.

Study of, and participation in, group process specific to rehabilitation programs. Experimental.

**Prerequisites:** junior standing in Occupational Therapy or Therapeutic recreation program, OCCTHPY 305(P) or THERREC 308(P); or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 320 Introduction to Ergonomics for Healthcare Professionals**

3 cr. Undergraduate.

Introduction to ergonomics and work-related musculoskeletal disorders with special focus on work and settings relevant to Occupational Therapy and other healthcare professions.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 322 Program Development in Rehabilitation**

2 cr. Undergraduate.

Study of the development process for programs in rehabilitation. Lecture, Discussion, Experiential learning.

**Prerequisites:** junior standing in the Occupational Therapy program or consent of instructor.

**Last Taught:** Summer 2015, Summer 2014, Summer 2013, Summer 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 323 Program Management in Rehabilitation**

2 cr. Undergraduate.

Study of the management of programs in rehabilitation.

**Prerequisites:** senior standing in the Occupational Therapy program or consent of instructor.

**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 326 Occupational Therapy in Pediatrics I**

3 cr. Undergraduate.

Evaluation of occupational performance and planning for treatment for the birth to 21 y/o population with occupational dysfunction. Includes experiential component.

**Prerequisites:** junior standing in the Occupational Therapy program; OCCTHPY 301 (P).

**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 328 Occupational Therapy in Physical Rehabilitation I**

3 cr. Undergraduate.

Application of biomechanical principles to OT evaluation and treatment.

**Prerequisites:** acceptance to the Occupational Therapy program.

**Last Taught:** Spring 2015, Spring 2014, Fall 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 329 Occupational Therapy in Gerontology**

3 cr. Undergraduate/Graduate.

In-depth study of occupational therapy principles and practice in working with the elderly in institutions and the community.

**Prerequisites:** junior standing in the Occupational Therapy program.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 329G Occupational Therapy in Gerontology**

3 cr. Undergraduate/Graduate.

In-depth study of occupational therapy principles and practice in working with the elderly in institutions and the community.

**Prerequisites:** junior standing in the Occupational Therapy program.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 330 Foundations of Professional Practice in Occupational Therapy**

1-3 cr. Undergraduate.

Foundation for successful professional practice in the field of occupational therapy. Students will apply knowledge of core professional documents, ethics and leadership. Specific cr announced in Schedule of Classes each time course is offered.

**Prerequisites:** junior standing in the Occupational Therapy program.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Summer 2015, Summer 2014, Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 340 Evidenced for Practice I: Applications of Biostatistics**

3 cr. Undergraduate.

Applications of instrumentation, biostatistics and epidemiology in occupational studies. Emphasizes research design, measurement and interpretation of statistical results.

**Prerequisites:** junior standing, OCCTHPY 151(P), and KIN 270(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 341 Evidence for Practice II: Appraising Evidence**

3 cr. Undergraduate.

Critically examines current research evidence in occupational studies and health care. Emphasizes spectrum of quantitative and qualitative approaches. Prereq: OCCTHPY 340(C).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 350 Professional Development Seminar I**

1 cr. Undergraduate.

Integrate academic knowledge with observation skills; refine skills through client observation; complete facility tours and paired visits to OT-related sites.

**Prerequisites:** acceptance to the Occupational Therapy program or consent of instructor.

**Last Taught:** Fall 2014, Fall 2013, Fall 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 360 Enhancing Health Through Activity, Occupation and Technology II**

3 cr. Undergraduate.

Integrate understanding of relationship of occupation and health, occupation-based intervention and technology. Reflect on personal occupations and design interventions for individuals, groups, communities.

**Prerequisites:** acceptance to the Occupational Therapy program or consent of instructor.

**Last Taught:** Fall 2014, Fall 2013, Fall 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 390 Professional Development Seminar II**

1 cr. Undergraduate.

Integrate OT academic knowledge with observation and intervention skills; refine skills through client interaction; complete 1st Level I fieldwork

**Prerequisites:** junior standing in the Occupational Therapy program and OCCTHPY 350(P); or consent of instructor.

**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 401 Overview of Medical Conditions**

3 cr. Undergraduate.

Overview of common impairments and related diagnoses such as spinal cord injury, head injury, burns, cognitive disorders and psychiatric disorders with implications for OT practice.

**Prerequisites:** THERREC 202(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 405 Occupational Therapy in Physical Rehabilitation II**

3 cr. Undergraduate.

Neurodevelopmental evaluation and treatment procedures for persons with central nervous system damage. Lec, lab.

**Prerequisites:** senior standing in the Occupational Therapy program, OCCTHPY 308(P), and OCCTHPY 401(P).

**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 411 Occupational Therapy and Psychosocial Rehabilitation**

3 cr. Undergraduate.

Advanced clinical techniques in psychosocial occupational therapy emphasizing social skills training, life coping skills, OT evaluations and intervention planning in rehabilitation and community settings.

**Prerequisites:** senior standing in the Occupational Therapy program; OCCTHPY 305(P); and OCCTHPY 315(P).

**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 420 Principles of Human Factors and Usability**

3 cr. Undergraduate.

Introduction to principles of human factors, interaction, and usability as they pertain to the design of consumer devices and assistive technologies.

**Prerequisites:** junior standing and OCCTHPY 220(P); or consent of instructor.

**Course Rules:** Counts as repeat of OCCTHPY 590 with the same topic.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 425 Occupational Therapy Senior Seminar**

2 cr. Undergraduate.

Summary and analysis of occupational therapy services primarily in physical dysfunction treatment situations. 4-week mini-course.

**Prerequisites:** second semester senior in the Occupational Therapy program.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 426 Occupational Therapy in Pediatrics II**

3 cr. Undergraduate.

Evaluation of occupational performance and treatment implementation for the birth to 21 y/o population with occupational dysfunction. Lec and lab.

**Prerequisites:** senior standing in the Occupational Therapy program and OCCTHPY 326(P).

**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 427 Essentials of Splinting**

3 cr. Undergraduate/Graduate.

Evaluation and splint fabrication of upper and lower extremity and trunk. Hands-on lab experience in splint design using various patterns, applications, and materials.

**Prerequisites:** BIO SCI 203(P) and KIN 320(P) or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 427G Essentials of Splinting**

3 cr. Undergraduate/Graduate.

Evaluation and splint fabrication of upper and lower extremity and trunk. Hands-on lab experience in splint design using various patterns, applications, and materials.

**Prerequisites:** BIO SCI 203(P) and KIN 320(P) or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 460 Professional Development Seminar III**

1 cr. Undergraduate.

Integrate OT academic knowledge with observation and interaction skills; develop clinical techniques and analyze and reflect on skills; complete 2nd Level I fieldwork

**Prerequisites:** senior standing in the Occupational Therapy program and OCCTHPY 390(P) or consent of instructor.

**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**OCCTHPY 490 Professional Development Seminar IV**

1 cr. Undergraduate.

Integrate OT academic knowledge with interaction skills; develop clinical techniques and analyze/reflect on skills; work on preparation for Level II fieldwork.

**Prerequisites:** senior standing in the Occupational Therapy program and OCCTHPY 460(P).

**Last Taught:** Spring 2016, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 497 Study Abroad - Occupational Therapy:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work.

**Prerequisites:** acceptance to Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2015, UWinterIM 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 497G Study Abroad - Occupational Therapy:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared course work.

**Prerequisites:** acceptance to Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2015, UWinterIM 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 505 Work and Disability**

3 cr. Undergraduate.

Constructs related to employment of people with disabilities (e.g. legislation; theories; interventions; accommodations; job placement, development, support) taught through experiential learning and case studies.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 519 Therapeutic Communication**

3 cr. Undergraduate/Graduate.

Development of therapeutic communication skills necessary for all occupational therapy practice settings.

**Prerequisites:** senior standing or graduate standing in the Occupational Therapy program; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 519G Therapeutic Communication**

3 cr. Undergraduate/Graduate.

Development of therapeutic communication skills necessary for all occupational therapy practice settings.

**Prerequisites:** senior standing or graduate standing in the Occupational Therapy program; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 521 Essentials of Assistive and Rehabilitation Technology**

3 cr. Undergraduate.

Fundamentals and applications of assistive and rehabilitation technology for the home, school, hospital, work place and community.

**Prerequisites:** junior standing and OCCTHPY 220(P) or consent of instructor.

**Last Taught:** Spring 2021, Spring 2020, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 522 Health, Performance, & Injury Monitoring in Organizations**

3 cr. Undergraduate/Graduate.

The physical, psychosocial, and technical systems of the health-performance continuum that influence injury, performance, and productivity will be introduced through exploration of populations including the industrial worker, public service, performing arts, sports, and disabled athletes.

**Prerequisites:** junior standing or higher and in good standing or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 522G Health, Performance, & Injury Monitoring in Organizations**

3 cr. Undergraduate/Graduate.

The physical, psychosocial, and technical systems of the health-performance continuum that influence injury, performance, and productivity will be introduced through exploration of populations including the industrial worker, public service, performing arts, sports, and disabled athletes.

**Prerequisites:** junior standing or higher and in good standing or consent of instructor.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 530 Contemporary Issues and Professional Preparation in OST**

3 cr. Undergraduate.

Exploration of contemporary issues and careers in the general areas of occupational science and technology. Attention is on preparation for entry level employment and/or graduate education.

**Prerequisites:** senior standing, OCCTHPY 401(C), or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 540 Evidence for Practice I**

3 cr. Undergraduate/Graduate.

Introduction to research methods and measurement in occupational therapy with a focus on the scientific process and evidence.

**Prerequisites:** senior standing or graduate standing in an Occupational Therapy program.

**Last Taught:** Summer 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 540G Evidence for Practice I**

3 cr. Undergraduate/Graduate.

Introduction to research methods and measurement in occupational therapy with a focus on the scientific process and evidence.

**Prerequisites:** senior standing or graduate standing in an Occupational Therapy program.

**Last Taught:** Summer 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 541 Evidence for Practice III: Creating Evidence**

3 cr. Undergraduate/Graduate.

Seminar to study the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development.

**Prerequisites:** senior standing in the Occupational Therapy program and OCCTHPY 341(P); or graduate standing in an Occupational Therapy program; or consent of instructor.

**Last Taught:** Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 541G Evidence for Practice III: Creating Evidence**

3 cr. Undergraduate/Graduate.

Seminar to study the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development.

**Prerequisites:** senior standing in the Occupational Therapy program and OCCTHPY 341(P); or graduate standing in an Occupational Therapy program; or consent of instructor.

**Last Taught:** Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 542 Evidence for Practice II**

3 cr. Undergraduate/Graduate.

Study of the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development.

**Prerequisites:** senior standing or graduate standing in an Occupational Therapy program; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 542G Evidence for Practice II**

3 cr. Undergraduate/Graduate.

Study of the research process, review of relevant research literature and use of basic research tools necessary for thesis/project development.

**Prerequisites:** senior standing or graduate standing in an Occupational Therapy program; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 550G Upper Extremity Evaluation and Treatment in Hand Therapy**

3 cr. Graduate.

Evaluation and treatment of the upper extremity. Techniques of patient evaluation, pertinent anatomy, and recovery.

**Prerequisites:** graduate standing in the Occupational Therapy or Physical Therapy program; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 590 Topics in Occupational Therapy:**

1-3 cr. Undergraduate/Graduate.

Topics of current interest in O.T. see Schedule of Classes for course offerings.

**Prerequisites:** junior standing in Occupational Therapy program or consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 590G Topics in Occupational Therapy:**

1-3 cr. Undergraduate/Graduate.

Topics of current interest in O.T. see Schedule of Classes for course offerings.

**Prerequisites:** junior standing in Occupational Therapy program or consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 9 cr.

**Last Taught:** Fall 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 592 Innovative Solutions in Human Factors and Performance**

3 cr. Undergraduate/Graduate.

Students will work as part of an entrepreneurial student-team to design, test, and produce process prototype solutions for real-world injury, health, and performance problems presented from community and industrial partners.

**Prerequisites:** OCCTHPY 522(P) or consent of instructor.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 592G Innovative Solutions in Human Factors and Performance**

3 cr. Undergraduate/Graduate.

Students will work as part of an entrepreneurial student-team to design, test, and produce process prototype solutions for real-world injury, health, and performance problems presented from community and industrial partners.

**Prerequisites:** OCCTHPY 522(P) or consent of instructor.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 593 Introduction to Biomedical and Rehabilitation Instrumentation**

3 cr. Undergraduate/Graduate.

Familiarizes students with medical instrumentation in post acute care settings. Basic electrical, electronic and mechanical terminologies.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 593G Introduction to Biomedical and Rehabilitation Instrumentation**

3 cr. Undergraduate/Graduate.

Familiarizes students with medical instrumentation in post acute care settings. Basic electrical, electronic and mechanical terminologies.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 595 Vision I: Introduction to Low Vision & Visual Impairment**

3 cr. Undergraduate/Graduate.

Introduces student to visual impairment including blindness and 'low vision'. Structure and function of the visual system and most common types of pathology.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Spring 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 595G Vision I: Introduction to Low Vision & Visual Impairment**

3 cr. Undergraduate/Graduate.

Introduces student to visual impairment including blindness and 'low vision'. Structure and function of the visual system and most common types of pathology.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Spring 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 596 Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention**

3 cr. Undergraduate/Graduate.

Functional implications of visual system pathology; focus on practical aspects of adapting to visual impairment, low vision evaluation and access to service/resources.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 596G Vision II: Practical Aspects of Visual Impairment & Low Vision Intervention**

3 cr. Undergraduate/Graduate.

Functional implications of visual system pathology; focus on practical aspects of adapting to visual impairment, low vision evaluation and access to service/resources.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 599 Independent Study I**

1-6 cr. Undergraduate/Graduate.

Independent study under the supervision of Occupational Science & Technology or Occupational Therapy program faculty.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken for degree credit.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 599G Independent Study I**

1-6 cr. Undergraduate/Graduate.

Independent study under the supervision of Occupational Science & Technology or Occupational Therapy program faculty.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken for degree credit.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 610 Advances in Occupational Science**

3 cr. Undergraduate/Graduate.

Explores origins and recent developments in occupational science. Examines the multidimensional nature of occupation; the dynamics of person, environment, occupation interaction; applications to practice.

**Prerequisites:** senior standing in the Occupational Therapy program or graduate standing.

**Last Taught:** Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 610G Advances in Occupational Science**

3 cr. Undergraduate/Graduate.

Explores origins and recent developments in occupational science. Examines the multidimensional nature of occupation; the dynamics of person, environment, occupation interaction; applications to practice.

**Prerequisites:** senior standing in the Occupational Therapy program or graduate standing.

**Last Taught:** Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 620 Introduction to Assistive and Rehabilitation Technology**

3 cr. Undergraduate/Graduate.

Principles of assistive and rehabilitation technology application and foundation skills for professionals working with people with disabilities to evaluate products and strategies for their use.

**Prerequisites:** junior standing and OCCTHPY 410(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 620G Introduction to Assistive and Rehabilitation Technology**

3 cr. Undergraduate/Graduate.

Principles of assistive and rehabilitation technology application and foundation skills for professionals working with people with disabilities to evaluate products and strategies for their use.

**Prerequisites:** junior standing and OCCTHPY 410(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 625 Design and Disability**

3 cr. Undergraduate/Graduate.

Universal design principles/theories related to creating access for individuals with disabilities. Enables professionals to evaluate and provide recommendations for product and environment universal design.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 625G Design and Disability**

3 cr. Undergraduate/Graduate.

Universal design principles/theories related to creating access for individuals with disabilities. Enables professionals to evaluate and provide recommendations for product and environment universal design.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 634 Collaborative Consultation/Teaming-Serving Young Children with Disabilities**

3 cr. Undergraduate/Graduate.

Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.

**Prerequisites:** junior standing.

**Course Rules:** EXCEDUC 634, OCCTHPY 634, and COMSDIS 634 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 634G Collaborative Consultation/Teaming-Serving Young Children with Disabilities**

3 cr. Undergraduate/Graduate.

Focus on development of collaboration and consultation skills for professionals employed in interdisciplinary and interagency settings.

**Prerequisites:** junior standing.

**Course Rules:** EXCEDUC 634, OCCTHPY 634, and COMSDIS 634 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 701 Advanced Measurement and Instrumentation in Health Care**

3 cr. Graduate.

Reviews and critiques measurement theories and instruments used by health related researchers and professionals. Includes traditional, outcome and contemporary methods differing from classical psychometric theory.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2022, Fall 2020, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 703 Applied Neuroscience**

3 cr. Graduate.

Emphasizes neurophysiology, neuroanatomy and disorders of the nervous system. Focus on relationship between structure and function of the nervous system as applied to OT.

**Prerequisites:** graduate standing in an Occupational Therapy program.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 704 Musculoskeletal Analysis and Occupational Function**

3 cr. Graduate.

The origin, nature, and course of musculoskeletal and neurological disorders and their relationship to clinical biomechanics and occupational performance.

**Prerequisites:** graduate standing in an Occupational Therapy program.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 705 Occupational Therapy in Physical Rehabilitation I**

3 cr. Graduate.

Development of assessment skills for common medical conditions that occupational therapists encounter in physical rehabilitation settings.

**Prerequisites:** graduate standing in an Occupational Therapy program.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 706 Occupational Therapy in Physical Rehabilitation II**

2-6 cr. Graduate.

Clinical application of occupational therapy interventions in a variety of rehabilitation settings.

**Prerequisites:** graduate standing in an Occupational Therapy program.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 707 Professional Development Seminar I**

1 cr. Graduate.

Exploration of social and cultural factors that impact occupational therapy practice; includes 30 hours of service learning.

**Prerequisites:** graduate standing in the MSOT program.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 708 Professional Development Seminar II**

1 cr. Graduate.

Development of skills in critical evaluation of OT practice through integration of academic knowledge and 40 hours of Level I fieldwork experience.

**Prerequisites:** graduate standing in the MSOT program and a grade of B- or better in OCCTHPY 707(P); or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 709 Professional Development Seminar III**

1 cr. Graduate.

Critical evaluation of OT practice and preparation for Level II fieldwork through integration of academic knowledge and 40 hour Level I fieldwork experience.

**Prerequisites:** graduate standing in the MSOT program and a grade of B- or better in OCCTHPY 708(P); or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 710 Community Models of Occupational Therapy Practice**

2 cr. Graduate.

Evaluation and application of occupational therapy knowledge to a wide array of community settings.

**Prerequisites:** graduate standing in an Occupational Therapy program or consent of instructor.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 711 Professional Leadership for Occupational Therapists**

3 cr. Graduate.

Critical analysis of trends, practice issues and strategies in the field of occupational therapy.

**Prerequisites:** graduate standing in an Occupational Therapy program.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 718 Occupational Therapy in Acute Care**

1-3 cr. Graduate.

This course provides a foundation for entry-level OT practitioners in the acute care setting with an awareness of common medical conditions and their treatment implications.

**Prerequisites:** graduate standing in an Occupational Therapy program or consent of instructor.

**Course Rules:** retakeable to 3 cr max.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 719 Occupational Therapy in Psychosocial Practice**

3 cr. Graduate.

The nature of human occupation, areas of occupation, performance skills, and performance patterns within varied contexts for persons with behavioral and psychiatric disorders.

**Prerequisites:** graduate standing in an Occupational Therapy program.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 720 Application of Occupational Science and Occupational Therapy Theory**

3 cr. Graduate.

Critical analysis of occupational science and occupational therapy theories as they relate to practice issues, strategies, and research.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 721 Foundations of Professional Practice in Occupational Therapy**

2 cr. Graduate.

Foundations for successful professional practice in the field of occupational therapy.

**Prerequisites:** graduate standing in an Occupational Therapy program.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 724 Advanced Design and Disability**

3 cr. Graduate.

Accessible and universal design principles, theories and practices are taught enabling evaluation and design of products and environments for people with and without disabilities.

**Prerequisites:** graduate standing; one class in assistive technology prior to this course is recommended.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 725 Occupational Therapy Field Service I**

6 cr. Graduate.

Provides students with opportunity to apply knowledge and practice in clinical setting through participation in therapy under supervision; integrates academic with professional knowledge.

**Prerequisites:** graduate standing and successful completion of required professional entry courses.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 735 Occupational Therapy Field Service II**

6 cr. Graduate.

Provides students with opportunity to apply knowledge and practice in clinical setting through participation in therapy under supervision; development of advanced knowledge and skills.

**Prerequisites:** graduate standing and OCCTHPY 725(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 740 Occupational Therapy with Children and Families**

1-4 cr. Graduate.

Examines current practices and future trends for evaluation and treatment of occupational performance between birth and 21 years of age within family and community contexts.

**Prerequisites:** graduate standing in an Occupational Therapy program.

**Course Rules:** Re-takeable to 4 cr max w/ chg in topic.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 742 Single Case Experimental Design**

3 cr. Graduate.

Readings, discussions, and learning experiences in single-case research methodology. Learners acquire knowledge and skills to plan, implement and analyze single-case interventions.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** EXCEDUC 742 and OCCTHPY 742 are jointly offered and count as repeats of one another. Counts as a repeat of OCCTHPY 590 with similar topic.

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 743 Advances in Child and Family Centered Occupational Therapy**

2-3 cr. Graduate.

Exploration of child development and family systems from an ecological perspective. Current evaluation and intervention strategies are studied through contemporary trends and evidence for practice.

**Prerequisites:** graduate standing and OCCTHPY 740(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 744 Advanced Occupational Therapy for Aging Adults**

1-3 cr. Graduate.

The aging of America has wide-ranging implications for occupational therapy. This course provides students with knowledge and skills to evaluate and work with older adults.

**Prerequisites:** graduate standing in Occupational Therapy program or consent instructor.

**Course Rules:** Retakable to 3 cr max.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 745 Occupational Therapy Field Service III**

1-6 cr. Graduate.

Additional, optional field placement beyond ACOTE requirements to accommodate special interests in treatment, health care systems and other professional settings.

**Prerequisites:** graduate standing and OCCTHPY 735(C).

**Last Taught:** Spring 2016, Fall 2014, Summer 2014, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 750 Computer Applications in Occupational Therapy Practice**

3 cr. Graduate.

Exploration of the current and future uses of computer technology in the field of occupational therapy. Completion of a student-designed software application.

**Prerequisites:** graduate standing.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 760 Assistive and Rehabilitation Technology**

3 cr. Graduate.

Surveys the use of assistive technology devices and applications for people with motor, sensory, and cognitive impairments.

**Prerequisites:** graduate standing and college-level computer course or equivalent; or consent of instructor.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 770 Assessment in Assistive Technology and Accessible Design**

3 cr. Graduate.

Background theory, principles of selection, application in practice, and procedures for applying assistive technology (AT) and universal design (UD) assessment and instrumentation.

**Prerequisites:** graduate standing and OCCTHPY 620(P) or consent of instructor.

**Last Taught:** Fall 2023, Summer 2023, Summer 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 774 Trauma Counseling I: Theory and Research**

3 cr. Graduate.

Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.

**Prerequisites:** graduate standing.

**Course Rules:** COUNS 774, NURS 774, OCCTHPY 774, and SOC WRK 774 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 775 Trauma Counseling II: Diagnosis and Treatment**

3 cr. Graduate.

Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.

**Prerequisites:** graduate standing, COUNS 744(P), NURS 775(P), OCCTHPY 774(P) or SOC WRK 774(P); or consent of instructor.

**Course Rules:** COUNS 775, NURS 775, OCCTHPY 775, and SOC WRK 775 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 777 Fieldwork in Assistive Technology**

1-6 cr. Graduate.

Provides students with a school- or clinic-based experience in the delivery of assistive technology services.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** EXCEDUC 777 and OCCTHPY 777 are jointly offered; they count as repeats of one another. May be retaken for 9 cr max.

**Last Taught:** Fall 2015, Fall 2014, Fall 2013, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 780 Physical Agents in Rehabilitation**

1-3 cr. Graduate.

Application of physical agents to restore functional abilities in a rehabilitation setting; includes review of research literature and competency testing.

**Prerequisites:** graduate standing in an Occupational Science program or consent of instructor.

**Course Rules:** Retakable to 3 cr max.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 788 Legal Issues and Regulatory Agencies in Ergonomics**

1 cr. Graduate.

Understanding of ergonomic regulations, regulatory sets, and agencies' and workers' compensations laws.

**Prerequisites:** graduate standing, IND ENG 580(P), and a course in statistics; or consent of instructor.

**Course Rules:** IND ENG 788 and OCCTHPY 788 are jointly offered and count as repeats of one another.

**Last Taught:** Summer 2010, Fall 2005, UWinterIM 2005, UWinterIM 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 790 Design Project**

2-3 cr. Graduate.

Integration and application of concepts learned in other ergonomic courses to analyze and abate ergonomic hazards in a scientific manner.

**Prerequisites:** graduate standing, IND ENG 780(P), IND ENG 783(P), IND ENG 786(P), and IND ENG 788(P); or consent of instructor.

**Course Rules:** IND ENG 790 and OCCTHPY 790 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2021, Fall 2016, Spring 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 799 Independent Study II**

1-6 cr. Graduate.

Intermediate level independent study under the supervision of Occupational Therapy faculty.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 810 Critical Evaluation of Theory, Research and Practice**

2 cr. Graduate.

Appraisal and application of knowledge and concepts acquired in academic and fieldwork education to occupational therapy practice.

**Prerequisites:** graduate standing in an Occupational Science program or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 820 Occupational Science Evidence When Serving Individuals and Populations**

3 cr. Graduate.

Origins, epistemology and recent developments in occupational science. Examines the multidimensional nature of occupation and complex relationships to health and health disparities from an occupational science lens.

**Prerequisites:** graduate standing.

**Course Rules:** Designed for post-professional graduate students.

**Last Taught:** Fall 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 880 Master's Project**

1-6 cr. Graduate.

Preparation of an individual project under the supervision of the student's major advisor.

**Prerequisites:** graduate standing and consent of advisor.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 890 Research and Thesis**

1-6 cr. Graduate.

Production of a thesis under the supervision of the student's major professor with the consultation of the degree committee.

**Prerequisites:** graduate standing and consent of advisor.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 900 Teaching, Learning and Educational Leadership in the Health Sciences**

3 cr. Graduate.

Overview of higher education in the health sciences and the responsibilities of the professoriate in fulfilling the missions of research, teaching, and service.

**Prerequisites:** graduate standing.

**Course Rules:** ATRAIN 900, OCCTHPY 900, PRPP 900, and PT 900 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2017, Fall 2016, Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 901 Seminar in Occupational Therapy**

1-3 cr. Graduate.

Scholarly discussion forum for graduate students, moderated by program faculty.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Repeatable to 9 cr max. Previously OCCTHPY 741.

**Last Taught:** Spring 2014, Fall 2013, Spring 2011, Summer 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 909 Guided Teaching Experience in Health Sciences**

3 cr. Graduate.

This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.

**Prerequisites:** graduate standing, one of the following: ATRAIN 900(P), OCCTHPY 900(P), PRPP 900(P), or PT 900(P), and consent of instructor.

**Course Rules:** Satisfactory/Unsatisfactory only. ATRAIN 909, BMS 909, COMSDIS 909, HCA 909, KIN 909, OCCTHPY 909, PT 909, and PRPP 909 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 990 Research and Dissertation**

1-6 cr. Graduate.

Production of a dissertation under the supervision of the student's major professor with the consultation of the degree committee.

**Prerequisites:** graduate standing and consent of advisor.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**OCCTHPY 999 Advanced Independent Study**

1-3 cr. Graduate.

Supervised investigation of particular topic area either not covered by other occupational therapy courses or at a level of sophistication beyond that in a course.

**Prerequisites:** graduate standing and consent of instructor.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

# Peace Studies (PEACEST)

**PEACEST 203 Introduction to Peace and Conflict Studies**

3 cr. Undergraduate.

Theories and approaches for understanding and managing conflict; skills and strategies for building peace.

**Prerequisites:** none.

**Course Rules:** GLOBAL 203 and PEACEST 203 are jointly offered and count as repeats of one another. Previously PEACEST 201.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PEACEST 219 Topics in Power and Conflict**

3 cr. Undergraduate.

Examination of topics concerned with power, conflict, and non-violent methods of conflict resolution.

**Prerequisites:** none.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PEACEST 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Spring 2022, Fall 2019, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PEACEST 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PEACEST 489 Internship in Peace Studies, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of social sciences in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in social sciences; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Last Taught:** Summer 2022, Summer 2021, Spring 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PEACEST 490 Sustainable Design for Community Development**

3 cr. Undergraduate/Graduate.

Transdisciplinary students will work on sustainable projects and designs to address complex societal problems that require consideration of economy, environment, politics, and technology that leverage community-based knowledge.

**Prerequisites:** junior standing or consent of instructor; MECHENG 320(R).

**Course Rules:** EAS 490, FRSHWTR 490, and PEACEST 490 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PEACEST 490G Sustainable Design for Community Development**

3 cr. Undergraduate/Graduate.

Transdisciplinary students will work on sustainable projects and designs to address complex societal problems that require consideration of economy, environment, politics, and technology that leverage community-based knowledge.

**Prerequisites:** junior standing or consent of instructor; MECHENG 320(R).

**Course Rules:** EAS 490, FRSHWTR 490, and PEACEST 490 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PEACEST 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Spring 2017, Spring 2016, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PEACEST 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PEACEST 699 Advanced Independent Study**

1-6 cr. Undergraduate.

Advanced level independent work under the supervision of a peace studies faculty or academic staff member.

**Prerequisites:** jr st; 2.5 GPA; writ cons instr, dept chair, & asst dean for SAS.

**Course Rules:** Retakeable w/chg in topic.

**Last Taught:** Spring 2020, Spring 2013, Spring 2011, Summer 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## **Performance Rehabilitation and Performance Psychology (PRPP)**

### **PRPP 296 Undergraduate Research**

1-3 cr. Undergraduate.

Undergraduate research under the direction of Performance Psychology faculty.

**Prerequisites:** consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PRPP 551 Psychology of Injury: Prevention, Rehabilitation & Return to Participation**

3 cr. Undergraduate/Graduate.

Explores the psychology of injury prevention, rehabilitation, and return to participation.

**Prerequisites:** KIN 350(P), or MSAT student, or graduate student in good standing with consent of instructor.

**Course Rules:** Previously KIN 551.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PRPP 551G Psychology of Injury: Prevention, Rehabilitation & Return to Participation**

3 cr. Undergraduate/Graduate.

Explores the psychology of injury prevention, rehabilitation, and return to participation.

**Prerequisites:** KIN 350(P), or MSAT student, or graduate student in good standing with consent of instructor.

**Course Rules:** Previously KIN 551.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PRPP 552 Psychology of Personal Excellence**

3 cr. Undergraduate/Graduate.

Research on elite athletes, performing artists, and corporate executives is used to discuss characteristics of peak performance and identify strategies to facilitate personal excellence.

**Prerequisites:** junior standing or graduate standing or consent of instructor.

**Course Rules:** Previously KIN 552.

**Last Taught:** Summer 2018, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PRPP 552G Psychology of Personal Excellence**

3 cr. Undergraduate/Graduate.

Research on elite athletes, performing artists, and corporate executives is used to discuss characteristics of peak performance and identify strategies to facilitate personal excellence.

**Prerequisites:** junior standing or graduate standing or consent of instructor.

**Course Rules:** Previously KIN 552.

**Last Taught:** Summer 2018, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PRPP 553 Psychological Considerations for Optimizing Health & Performance**

3 cr. Undergraduate/Graduate.

Psychological factors linked to health and performance will be explored in depth to enable health care providers to optimize care to their clients and contribute meaningfully within interprofessional health care teams.

**Prerequisites:** junior standing or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PRPP 553G Psychological Considerations for Optimizing Health & Performance**

3 cr. Undergraduate/Graduate.

Psychological factors linked to health and performance will be explored in depth to enable health care providers to optimize care to their clients and contribute meaningfully within interprofessional health care teams.

**Prerequisites:** junior standing or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### **PRPP 599 Independent Study I**

1-6 cr. Undergraduate/Graduate.

Advanced undergraduate or beginning graduate level independent study under Performance Psychology faculty.

**Prerequisites:** junior standing or greater; or graduate standing; consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**PRPP 599G Independent Study I**

1-6 cr. Undergraduate/Graduate.

Advanced undergraduate or beginning graduate level independent study under Performance Psychology faculty.

**Prerequisites:** junior standing or greater; or graduate standing; consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 790 Advanced Topics in Performance Psychology:**

1-3 cr. Graduate.

Specific topic is announced in the Schedule of Classes each semester the course is offered.

**Prerequisites:** graduate standing.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 799 Independent Study II**

1-6 cr. Graduate.

Intermediate graduate level independent study under the direction of Performance Psychology faculty.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 854 Professional Studies in Sport & Performance Psychology**

3 cr. Graduate.

Foundations of successful and ethical professional practice in sport and performance psychology.

**Prerequisites:** Repeatable up to 6 credits. Graduate student in good standing; Grade of C or higher in Psychological Aspects of Human Movement (KIN 550); Grade of C or higher in Psychology of Personal Excellence (KIN 552); or consent of instructor.

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 855 Mentored Fieldwork in Sport and Performance Psychology**

1-3 cr. Graduate.

Mentored fieldwork experience with an emphasis on application of consulting skills and behaviors in sport and performance psychology settings.

**Prerequisites:** Graduate student in good standing; Grade of C or higher in Psychological Aspects of Human Movement (KIN 550); Grade of C or higher in Psychology of Personal Excellence (KIN 552); Grade of B or higher in PRPP 854; or consent of instructor.

**Course Rules:** Repeatable for 9 credits.

**Last Taught:** Fall 2023, Fall 2021, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 888 Candidate for Degree**

0 cr. Graduate.

Available for students who have completed all credit requirements and who need to enroll to complete other graduation requirements.

**Prerequisites:** consent of instructor.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 890 Research and Thesis**

1-6 cr. Graduate.

Production of a thesis under the supervision of the student's major professor with the consultation of the degree committee.

**Prerequisites:** graduate standing.

**Course Rules:** Repeatable to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 895 Capstone**

1-6 cr. Graduate.

Production of a capstone project the supervision of the student's major professor.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 6 cr max. Satisfactory/Unsatisfactory only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 900 Teaching, Learning and Educational Leadership in the Health Sciences**

3 cr. Graduate.

Overview of higher education in the health sciences and the responsibilities of the professoriate in fulfilling the missions of research, teaching, and service.

**Prerequisites:** graduate standing.

**Course Rules:** ATRAIN 900, OCCTHPY 900, PRPP 900, and PT 900 are jointly offered and count as repeats of one another.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 901 Seminar in Performance Psychology**

1-3 cr. Graduate.

This seminar critically evaluates current research and applied topics in performance psychology.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 909 Guided Teaching Experience in Health Sciences**

3 cr. Graduate.

This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.

**Prerequisites:** graduate standing, one of the following: ATRAIN 900(P), OCCTHPY 900(P), PRPP 900(P), or PT 900(P), and consent of instructor.

**Course Rules:** Satisfactory/Unsatisfactory only. ATRAIN 909, BMS 909, COMSDIS 909, HCA 909, KIN 909, OCCTHPY 909, PT 909, and PRPP 909 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 990 Research and Dissertation**

1-12 cr. Graduate.

Production of a dissertation under the supervision of the student's major professor with the consultation of the degree committee.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 18 cr max. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PRPP 999 Advanced Independent Study**

1-6 cr. Graduate.

Advanced graduate level independent study.

**Prerequisites:** graduate standing.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Philosophy (PHILOS)

**PHILOS 101 Introduction to Philosophy:**

3 cr. Undergraduate.

Introduction to the philosophical thinking through examination of such topics as Plato's and Aristotle's contribution to Western civilization; free will and moral responsibility; God, morality, and knowledge.

**Prerequisites:** none.

**Course Rules:** May not be retaken for add'l cr; may be repeated for higher grade.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 111 Introduction to Logic - Critical Reasoning**

3 cr. Undergraduate.

Students learn a broad variety of fundamental logical methods - techniques used to identify, analyze, model, evaluate, and criticize different types of real-world reasoning.

**Prerequisites:** a grade of C or better in MATH 90(P) or MATH 102(P); or grade of D in MATH 94(P); or Math Placement Level 10.

**Course Rules:** PHILOS 111 and MATH 111 are jointly offered; they count as repeats of one another.

**General Education Requirements:** HU, QLA

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2021, Spring 2006, Fall 2002, Fall 1999.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 204 Introduction to Asian Religions**

3 cr. Undergraduate.

Philosophy of Asian religions; emphasis on the Indian experience of Hinduism and Buddhism, and the Chinese experience of Buddhism, Confucianism, and Taoism.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 207 Religion and Science**

3 cr. Undergraduate.

The alleged conflict between science and religion: case histories, analysis of the issues, implications for the concepts of religious beliefs and scientific knowledge.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 211 Elementary Logic**

3 cr. Undergraduate.

Introduction to traditional and modern logic; the concepts of argument, validity; proof, fallacy, persuasion, and reasoning; the development of certain practical skills.

**Prerequisites:** satisfaction of QL-A.

**General Education Requirements:** HU, QLB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 212 Modern Deductive Logic**

3 cr. Undergraduate.

A second course in symbolic logic that develops the skills in symbolic translation and proof construction acquired in Philos 211, investigates more abstractly the properties of formal systems of proof.

**Prerequisites:** grade C or better in Philos 211(P).

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 213 Introduction to the Philosophy of Science**

3 cr. Undergraduate.

Course for beginning students dealing with such problems as induction vs deduction; hypotheses and theories and their relation to observation; explanation and prediction.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Spring 2019, Spring 2010, Spring 2009, Summer 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 215 Belief, Knowledge, and Truth: An Introduction to the Theory of Knowledge**

3 cr. Undergraduate.

Grounds of rational belief and knowledge and methods used for obtaining them, with particular emphasis on problems of evidence and truth.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 217 Introduction to Metaphysics**

3 cr. Undergraduate.

Introduction to the major problems of metaphysics, such as the mind-body problem, the free will-determinism issue, and the nature of causality.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2020, Fall 2019, Spring 2017, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 232 Topics in Philosophy.**

3 cr. Undergraduate.

A course for beginning students dealing with such philosophical problems as freedom of will, skepticism, or a historical figure or movement.

**Prerequisites:** none.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 235 Philosophical Aspects of Feminism**

3 cr. Undergraduate.

A course for beginning students dealing with selected philosophical issues underlying feminist ideas and problems.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2022, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 237 Technology, Values, and Society**

3 cr. Undergraduate.

Discussion of controversies over whether modern technology is a progressive or regressive force in human life; impact of technology on individual and institutional values.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 241 Introductory Ethics**

3 cr. Undergraduate.

Development of moral ideas. Criticism of ethical theories and of social institutions such as state, property, and family.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 242 Introduction to Social and Political Philosophy**

3 cr. Undergraduate.

Opposing philosophical views about man and his political and social life.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Spring 2021, Fall 2015, Spring 2014, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 243 Moral Problems:**

1 cr. Undergraduate.

Intensive study of one moral issue of current relevance.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 244 Ethical Issues in Health Care:**

3 cr. Undergraduate.

Study of ethical issues facing patients, providers, and public policy planners: e.g., ethical response to terminal illness, equity in health care delivery.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 245 Critical Thinking and the Law:**

3 cr. Undergraduate.

Development of critical and analytical skills using legal reasoning as a model and law texts as sources.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2010, Fall 2009, Spring 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 250 God, Faith and Reason**

3 cr. Undergraduate.

Major questions: What is God? Can God's existence (or non-existence) be proved? How? What is religious faith? Is faith rational? Is faith ethical or wise?

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 253 Philosophy of the Arts**

3 cr. Undergraduate.

The creation, appreciation, and criticism of works of art. Sources and use of standards.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2022, Summer 2014, Fall 2012, Fall 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 271 Philosophical Traditions:**

3 cr. Undergraduate.

Survey of one significant philosophical tradition.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**Last Taught:** Spring 2023, Spring 2009, Spring 2005, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 272 Philosophical Classics:**

1 cr. Undergraduate.  
Intensive study of one short work of special importance in the philosophic literature.  
**Prerequisites:** none.  
**Course Rules:** May be retaken w/chg in topic to 6 cr max.  
**Last Taught:** Fall 2007, Fall 2006, Spring 2004, Spring 2003.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 289 Internship in Philosophy, Lower Division**

1-6 cr. Undergraduate.  
Application of basic principles of philosophy in a business, organizational, educational, political, or other appropriate setting.  
**Prerequisites:** intro course in philos; 2.25 gpa; cons supervising faculty member.  
**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 297 Study Abroad:**

1-12 cr. Undergraduate.  
Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined, and/or in specially prepared program course work.  
**Prerequisites:** acceptance for Study Abroad Prog.  
**Course Rules:** May be retaken w/chg in topic.  
**Last Taught:** Spring 2022, Spring 2020, Fall 2019, Spring 2019.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 299 Ad Hoc:**

1-6 cr. Undergraduate.  
Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.  
**Prerequisites:** none; add'l prereqs may be assigned to specific topic.  
**Course Rules:** May be retaken w/chg in topic.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 303 Mind and Knowledge**

3 cr. Undergraduate/Graduate.  
Studies the natures of action, belief and knowledge and the constraint that knowledge imposes on responsible action and belief, both in individuals and across society.  
**Prerequisites:** jr st; Philos 101(P) or 215(P).  
**Last Taught:** Spring 2021.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 303G Mind and Knowledge**

3 cr. Undergraduate/Graduate.  
Studies the natures of action, belief and knowledge and the constraint that knowledge imposes on responsible action and belief, both in individuals and across society.  
**Prerequisites:** jr st; Philos 101(P) or 215(P).  
**Last Taught:** Spring 2021.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 304 Buddhist Philosophy**

3 cr. Undergraduate.  
Overview of the main philosophical teachings of Buddhism. Examination of key teachings in the Buddhist sutras; critical analysis of of key doctrines in Buddhist metaphysics, epistemology, and ethics.  
**Prerequisites:** sophomore standing or above and 3 credits in philosophy; or special student (incl University or School/College Specials; 2nd degree, post-baccalaureate, certificate).  
**Last Taught:** Fall 2023, Spring 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 317 Metaphysics**

3 cr. Undergraduate/Graduate.  
Study of perennial philosophical issues about the nature of the world and our relation to it; realism, idealism, causality, the mind-body problem, time, truth.  
**Prerequisites:** jr st & 3 cr in philos.  
**Last Taught:** Fall 2023, Spring 2022.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 317G Metaphysics**

3 cr. Undergraduate/Graduate.  
Study of perennial philosophical issues about the nature of the world and our relation to it; realism, idealism, causality, the mind-body problem, time, truth.  
**Prerequisites:** jr st & 3 cr in philos.  
**Last Taught:** Fall 2023, Spring 2022.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 324 Philosophy of Science**

3 cr. Undergraduate/Graduate.  
Study of traditional and recent views about the nature, aim and ways of evaluating scientific theories, with reference to both the natural and social sciences.  
**Prerequisites:** jr st & 3 cr in philos.  
**Last Taught:** Spring 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 324G Philosophy of Science**

3 cr. Undergraduate/Graduate.  
Study of traditional and recent views about the nature, aim and ways of evaluating scientific theories, with reference to both the natural and social sciences.  
**Prerequisites:** jr st & 3 cr in philos.  
**Last Taught:** Spring 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 332 Philosophical Problems:**

3 cr. Undergraduate.  
Specific philosophical topic or issue, such as contemporary aesthetics, personal identity, the mind-body problem, the nature of beauty, equality, the just-war doctrine.  
**Prerequisites:** junior standing and 3 cr PHILOS.  
**Course Rules:** Not open for credit to students with credit in PHILOS 381 with similar subtitle. May be retaken with change in topic to 9 cr max.  
**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Spring 2017.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 335 Philosophy of Biology**

3 cr. Undergraduate/Graduate.

Philosophical study of topics in the biological sciences, such as evolutionary explanations, genetic determinism, the definition of life, what constitutes a biological individual.

**Prerequisites:** jr st; 3 cr in philos.**Last Taught:** Fall 2010, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 335G Philosophy of Biology**

3 cr. Undergraduate/Graduate.

Philosophical study of topics in the biological sciences, such as evolutionary explanations, genetic determinism, the definition of life, what constitutes a biological individual.

**Prerequisites:** jr st; 3 cr in philos.**Last Taught:** Fall 2010, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 337 Environmental Ethics**

3 cr. Undergraduate/Graduate.

Theories of environmental ethics, practical application. Responsibilities to nature/future generations; moral value/status of environment and organisms; philosophical issues concerning environmental studies and ecology.

**Prerequisites:** jr st.**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 337G Environmental Ethics**

3 cr. Undergraduate/Graduate.

Theories of environmental ethics, practical application. Responsibilities to nature/future generations; moral value/status of environment and organisms; philosophical issues concerning environmental studies and ecology.

**Prerequisites:** jr st.**Last Taught:** Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 341 Modern Ethical Theories**

3 cr. Undergraduate.

Ethical theories and problems as discussed in the late nineteenth, twentieth, and twenty first-centuries.

**Prerequisites:** jr st; 3 cr in philos; satisfaction of OWC-A.**General Education Requirements:** OWCB**Last Taught:** Fall 2023, Fall 2022, Spring 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 349 Great Moral Philosophers**

3 cr. Undergraduate/Graduate.

Major themes of moral philosophy from Plato and Aristotle to Bentham and Mill, with critical study of the outstanding works.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 349G Great Moral Philosophers**

3 cr. Undergraduate/Graduate.

Major themes of moral philosophy from Plato and Aristotle to Bentham and Mill, with critical study of the outstanding works.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 350 Introduction to the Comparative Study of Religion**

3 cr. Undergraduate/Graduate.

Analysis of the nature of religion, of various comparative typological classifications and methodological approaches; basic problems in understanding the varieties of religious experience and expression.

**Prerequisites:** jr st; Philos 204(P), Philos/Hist/Hebr St 275(P) or Anthro 203(P).**Last Taught:** Spring 2006, Spring 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 350G Introduction to the Comparative Study of Religion**

3 cr. Undergraduate/Graduate.

Analysis of the nature of religion, of various comparative typological classifications and methodological approaches; basic problems in understanding the varieties of religious experience and expression.

**Prerequisites:** jr st; Philos 204(P), Philos/Hist/Hebr St 275(P) or Anthro 203(P).**Last Taught:** Spring 2006, Spring 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 351 Philosophy of Mind**

3 cr. Undergraduate/Graduate.

Critical study of the nature of mind and its relation to body and matter, with emphasis on recent advances in philosophy and psychology.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2018, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 351G Philosophy of Mind**

3 cr. Undergraduate/Graduate.

Critical study of the nature of mind and its relation to body and matter, with emphasis on recent advances in philosophy and psychology.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2018, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 355 Political Philosophy**

3 cr. Undergraduate/Graduate.

Philosophical doctrines involved in justification of political decisions; analysis of fundamental concepts such as the common good, authority, justice, natural law, and natural rights.

**Prerequisites:** none.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 355G Political Philosophy**

3 cr. Undergraduate/Graduate.

Philosophical doctrines involved in justification of political decisions; analysis of fundamental concepts such as the common good, authority, justice, natural law, and natural rights.

**Prerequisites:** none.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 358 Action, Will, and Freedom**

3 cr. Undergraduate/Graduate.

The nature of the will, agency, intentional action, and the problem of free will and determinism.

**Prerequisites:** jr st, 3 cr philos; or grad st.**Last Taught:** Fall 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 358G Action, Will, and Freedom**

3 cr. Undergraduate/Graduate.

The nature of the will, agency, intentional action, and the problem of free will and determinism.

**Prerequisites:** jr st, 3 cr philos; or grad st.**Last Taught:** Fall 2022, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 360 Philosophy of Perception**

3 cr. Undergraduate/Graduate.

Major issues in the philosophy of perception: the nature of sensation, perception and inference, the relationship of perception and belief.

**Prerequisites:** jr st; 3 cr in Philos.**Last Taught:** Fall 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 360G Philosophy of Perception**

3 cr. Undergraduate/Graduate.

Major issues in the philosophy of perception: the nature of sensation, perception and inference, the relationship of perception and belief.

**Prerequisites:** jr st; 3 cr in Philos.**Last Taught:** Fall 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 381 Honors Seminar**

3 cr. Undergraduate.

Intensive study of selected philosophers, movements, or philosophical problems.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.**Course Rules:** May be retaken with change in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Fall 2006, Fall 2005, Spring 2005, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 384 The Philosophy of Law**

3 cr. Undergraduate/Graduate.

The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.

**Prerequisites:** jr st; 3 cr philos or previous course in political theory or law studies recom.**Course Rules:** Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 384G The Philosophy of Law**

3 cr. Undergraduate/Graduate.

The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.

**Prerequisites:** jr st; 3 cr philos or previous course in political theory or law studies recom.**Course Rules:** Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 430 Great Thinkers of the Ancient Period**

3 cr. Undergraduate/Graduate.

An examination of, and engagement with, the thought of some of the major philosophers of the ancient period, including the Pre-Socratics, Plato, and Aristotle.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 430G Great Thinkers of the Ancient Period**

3 cr. Undergraduate/Graduate.

An examination of, and engagement with, the thought of some of the major philosophers of the ancient period, including the Pre-Socratics, Plato, and Aristotle.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 431 History of Medieval Philosophy**

3 cr. Undergraduate/Graduate.

Critical and historical examination of writings of medieval philosophers such as Augustine, Anselm, Aquinas, Duns Scotus, Ockham, Al Farabi, Maimonides.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2009, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 431G History of Medieval Philosophy**

3 cr. Undergraduate/Graduate.

Critical and historical examination of writings of medieval philosophers such as Augustine, Anselm, Aquinas, Duns Scotus, Ockham, Al Farabi, Maimonides.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2009, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 432 Great Thinkers of the Modern Period**

3 cr. Undergraduate/Graduate.

An examination of the thought of representative philosophers of the 17th and 18th centuries.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 432G Great Thinkers of the Modern Period**

3 cr. Undergraduate/Graduate.

An examination of the thought of representative philosophers of the 17th and 18th centuries.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 433 Nineteenth-Century Philosophers**

3 cr. Undergraduate/Graduate.

Hegel, Schopenhauer, Marx, Kierkegaard, Nietzsche, and others. The conflict of idealistic, materialistic, and irrationalist philosophies of the nineteenth century and their influence on its social, literary, and religious movements.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2012, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 433G Nineteenth-Century Philosophers**

3 cr. Undergraduate/Graduate.

Hegel, Schopenhauer, Marx, Kierkegaard, Nietzsche, and others. The conflict of idealistic, materialistic, and irrationalist philosophies of the nineteenth century and their influence on its social, literary, and religious movements.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2012, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 434 Survey of Contemporary Philosophy**

3 cr. Undergraduate/Graduate.

Comparison of problems and solutions dealt with by currently active movements and philosophers, including Carnap, Croce, Dewey, Heidegger, Husserl, Moore, Russell, Sartre, and Wittgenstein.

**Prerequisites:** jr st; 3 cr in philos.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 434G Survey of Contemporary Philosophy**

3 cr. Undergraduate/Graduate.

Comparison of problems and solutions dealt with by currently active movements and philosophers, including Carnap, Croce, Dewey, Heidegger, Husserl, Moore, Russell, Sartre, and Wittgenstein.

**Prerequisites:** jr st; 3 cr in philos.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 435 Existentialism**

3 cr. Undergraduate/Graduate.

Analysis of existentialist thinkers such as Kierkegaard, Nietzsche, Heidegger, Sartre, and Merleau-Ponty.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Spring 2018, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 435G Existentialism**

3 cr. Undergraduate/Graduate.

Analysis of existentialist thinkers such as Kierkegaard, Nietzsche, Heidegger, Sartre, and Merleau-Ponty.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Spring 2018, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 437 Phenomenology**

3 cr. Undergraduate/Graduate.

Husserl's phenomenological method and its impact on recent continental philosophy, e.g. Heidegger, Sartre, Merleau-Ponty.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Spring 2012, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 437G Phenomenology**

3 cr. Undergraduate/Graduate.

Husserl's phenomenological method and its impact on recent continental philosophy, e.g. Heidegger, Sartre, Merleau-Ponty.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Spring 2012, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 461 Islamic Philosophy and Mysticism**

3 cr. Undergraduate/Graduate.

Problems central to Islamic theology, philosophy, and mysticism, and their relations to the teachings of Islam.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2005, Spring 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 461G Islamic Philosophy and Mysticism**

3 cr. Undergraduate/Graduate.

Problems central to Islamic theology, philosophy, and mysticism, and their relations to the teachings of Islam.

**Prerequisites:** jr st & 3 cr in philos.**Last Taught:** Fall 2005, Spring 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 474 Contemporary Religious Thought:**

3 cr. Undergraduate/Graduate.

Analysis of two or more contemporary religious thinkers (e.g., Buber, Heschel, Tillich, Barth, Bultmann, death-of-God theologians, Moltmann, Pannenberg, Rahner, Chardin). Difficulties and objections are discussed.

**Prerequisites:** jr st, 3 cr in philos.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 474G Contemporary Religious Thought:**

3 cr. Undergraduate/Graduate.

Analysis of two or more contemporary religious thinkers (e.g., Buber, Heschel, Tillich, Barth, Bultmann, death-of-God theologians, Moltmann, Pannenberg, Rahner, Chardin). Difficulties and objections are discussed.

**Prerequisites:** jr st, 3 cr in philos.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 475 Special Topics in Indian Religious Thought:**

3 cr. Undergraduate/Graduate.

Intensive study of selected Hindu and Indian Buddhist thinkers and schools of thought, e.g. the Vedanta of Sankara and Ramanuja, Mahayana thought, modern Vedanta, Gandhi.

**Prerequisites:** May be retaken w/chg in topic to 9 cr max. Preq: jr st; 3 cr in philos.**Last Taught:** Fall 2005, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 475G Special Topics in Indian Religious Thought:**

3 cr. Undergraduate/Graduate.

Intensive study of selected Hindu and Indian Buddhist thinkers and schools of thought, e.g. the Vedanta of Sankara and Ramanuja, Mahayana thought, modern Vedanta, Gandhi.

**Prerequisites:** May be retaken w/chg in topic to 9 cr max. Preq: jr st; 3 cr in philos.**Last Taught:** Fall 2005, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 489 Internship in Philosophy, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of philosophy in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in philos; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2022, Spring 2010, Fall 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 1988.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 511 Symbolic Logic**

3 cr. Undergraduate/Graduate.

First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.

**Prerequisites:** junior standing; PHILOS 212(P) or 6 cr of Math at the 300-level or above; or graduate standing.

**Course Rules:** COMPSCI 511, MATH 511 and PHILOS 511 are jointly offered and count as repeat of each other.

**Last Taught:** Spring 2019, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 511G Symbolic Logic**

3 cr. Undergraduate/Graduate.

First-order predicate calculus; formal properties of theoretical systems; chief results of modern mathematical logic; advanced topics such as completeness and computability.

**Prerequisites:** junior standing; PHILOS 212(P) or 6 cr of Math at the 300-level or above; or graduate standing.

**Course Rules:** COMPSCI 511, MATH 511 and PHILOS 511 are jointly offered and count as repeat of each other.

**Last Taught:** Spring 2019, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 516 Language and Meaning**

3 cr. Undergraduate/Graduate.

Philosophical issues of the semantics, syntax and pragmatics of language; relations between philosophy of language and metaphysics, epistemology and philosophy of science.

**Prerequisites:** jr st & Philos 101(P) or 432(P).

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 516G Language and Meaning**

3 cr. Undergraduate/Graduate.

Philosophical issues of the semantics, syntax and pragmatics of language; relations between philosophy of language and metaphysics, epistemology and philosophy of science.

**Prerequisites:** jr st & Philos 101(P) or 432(P).

**Last Taught:** Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 517 Special Problems in the Philosophy of Language and Linguistics:**

3 cr. Undergraduate/Graduate.

In depth study of one or more topics concerning the nature of language; its acquisition, use and formal structures.

**Prerequisites:** jr st; 3 cr in philos.

**Course Rules:** May be retaken w/chg in topic & cons advisor & instr to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 517G Special Problems in the Philosophy of Language and Linguistics:**

3 cr. Undergraduate/Graduate.

In depth study of one or more topics concerning the nature of language; its acquisition, use and formal structures.

**Prerequisites:** jr st; 3 cr in philos.

**Course Rules:** May be retaken w/chg in topic & cons advisor & instr to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 518 Philosophy of History**

3 cr. Undergraduate/Graduate.

The nature of historical knowledge and belief in terms of the justification of historical narration, explanation and prediction.

**Prerequisites:** jr st & 3 cr in philos.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 518G Philosophy of History**

3 cr. Undergraduate/Graduate.

The nature of historical knowledge and belief in terms of the justification of historical narration, explanation and prediction.

**Prerequisites:** jr st & 3 cr in philos.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**PHILOS 519 Special Problems in Metaphysics and Epistemology:**

3 cr. Undergraduate/Graduate.

Intensive study in such topics as perception, skepticism, induction, mathematical knowledge, universals, causality, substance, determinism, possibility.

**Prerequisites:** junior standing and 3 cr PHILOS.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 519G Special Problems in Metaphysics and Epistemology:**

3 cr. Undergraduate/Graduate.

Intensive study in such topics as perception, skepticism, induction, mathematical knowledge, universals, causality, substance, determinism, possibility.

**Prerequisites:** junior standing and 3 cr PHILOS.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 520 Philosophy of the Natural Sciences**

3 cr. Undergraduate/Graduate.

The nature and function of science; the logic of scientific method; clarification of such concepts as cause, law, theory, probability, determinism, and teleology.

**Prerequisites:** jr st & 3 cr in philos.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 520G Philosophy of the Natural Sciences**

3 cr. Undergraduate/Graduate.

The nature and function of science; the logic of scientific method; clarification of such concepts as cause, law, theory, probability, determinism, and teleology.

**Prerequisites:** jr st & 3 cr in philos.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 521 Philosophy of the Social Sciences**

3 cr. Undergraduate/Graduate.

The nature and scope of the social sciences; explanatory, interpretive, and normative concerns in theory construction, their interconnection, and their methodological implications.

**Prerequisites:** jr st & 3 cr in philos.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 521G Philosophy of the Social Sciences**

3 cr. Undergraduate/Graduate.

The nature and scope of the social sciences; explanatory, interpretive, and normative concerns in theory construction, their interconnection, and their methodological implications.

**Prerequisites:** jr st & 3 cr in philos.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 522 Special Topics in the Philosophy of Science:**

3 cr. Undergraduate/Graduate.

Consideration of one or more of the following: logic of theory construction, theoretical entities, measurement, nature of laws, conventionalism, operationalism, and induction.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 522G Special Topics in the Philosophy of Science:**

3 cr. Undergraduate/Graduate.

Consideration of one or more of the following: logic of theory construction, theoretical entities, measurement, nature of laws, conventionalism, operationalism, and induction.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 532 Philosophical Problems:**

3 cr. Undergraduate/Graduate.

Intensive study of one or two particular problems, such as determinism and freedom, ethical relativism, memory, or perception.

**Prerequisites:** junior standing and 3 cr PHILOS.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 532G Philosophical Problems:**

3 cr. Undergraduate/Graduate.

Intensive study of one or two particular problems, such as determinism and freedom, ethical relativism, memory, or perception.

**Prerequisites:** junior standing and 3 cr PHILOS.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 542 Punishment and Responsibility**

3 cr. Undergraduate/Graduate.

Views on the moral permissibility of punishment and other forms of penalization; the foundations of a general theory of moral responsibility.

**Prerequisites:** jr st & 3 cr in philos. Philos 241(R) or social science background recom.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 542G Punishment and Responsibility**

3 cr. Undergraduate/Graduate.

Views on the moral permissibility of punishment and other forms of penalization; the foundations of a general theory of moral responsibility.

**Prerequisites:** jr st & 3 cr in philos. Philos 241(R) or social science background recom.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 551 Aristotle**

3 cr. Undergraduate/Graduate.

Intensive study of one or more of Aristotle's major works or of themes and problems in Aristotle's thought. Particular attention to careful analysis of the texts.

**Prerequisites:** jr st; 3 cr philos; Philos 430(R).

**Last Taught:** Fall 2016, Spring 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 551G Aristotle**

3 cr. Undergraduate/Graduate.

Intensive study of one or more of Aristotle's major works or of themes and problems in Aristotle's thought. Particular attention to careful analysis of the texts.

**Prerequisites:** jr st; 3 cr philos; Philos 430(R).

**Last Taught:** Fall 2016, Spring 1995.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 554 Special Topics in the History of Modern Philosophy:**

3 cr. Undergraduate/Graduate.

Intensive study of a philosopher, movement, or historical problem in modern philosophy, e.g., Spinoza, British empiricists, Locke's influence upon the Enlightenment, overthrow of Hegelian idealism.

**Prerequisites:** junior standing and 3 credits in PHILOS; PHILOS 432(R); or consent of instructor.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 554G Special Topics in the History of Modern Philosophy:**

3 cr. Undergraduate/Graduate.

Intensive study of a philosopher, movement, or historical problem in modern philosophy, e.g., Spinoza, British empiricists, Locke's influence upon the Enlightenment, overthrow of Hegelian idealism.

**Prerequisites:** junior standing and 3 credits in PHILOS; PHILOS 432(R); or consent of instructor.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 555 Recent Philosophy:**

3 cr. Undergraduate/Graduate.

Intensive study of one or more philosophers or philosophical movements of the recent past.

**Prerequisites:** jr st; 3 cr philos.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2005, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 555G Recent Philosophy:**

3 cr. Undergraduate/Graduate.

Intensive study of one or more philosophers or philosophical movements of the recent past.

**Prerequisites:** jr st; 3 cr philos.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2005, Fall 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 562 Special Topics in Ethics and Social and Political Philosophy:**

3 cr. Undergraduate/Graduate.

Intensive study of issues such as the concept of law, punishment, liberty, civil disobedience, the public good, and the applicability of scientific method to social issues.

**Prerequisites:** junior standing and completion of 3 cr in PHILOS.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 562G Special Topics in Ethics and Social and Political Philosophy:**

3 cr. Undergraduate/Graduate.

Intensive study of issues such as the concept of law, punishment, liberty, civil disobedience, the public good, and the applicability of scientific method to social issues.

**Prerequisites:** junior standing and completion of 3 cr in PHILOS.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 681 Seminar in Advanced Topics:**

3 cr. Undergraduate/Graduate.

Seminar on a philosopher, philosophical movement, issue, or problem for majors and graduate students. Research papers required.

**Prerequisites:** senior standing and 12 cr in PHILOS at the 300-level or above; or graduate standing.**Course Rules:** May be retaken with change in topic to 9 cr max. Additional prerequisites announced in the Schedule of Classes each time course is offered.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 681G Seminar in Advanced Topics:**

3 cr. Undergraduate/Graduate.

Seminar on a philosopher, philosophical movement, issue, or problem for majors and graduate students. Research papers required.

**Prerequisites:** senior standing and 12 cr in PHILOS at the 300-level or above; or graduate standing.**Course Rules:** May be retaken with change in topic to 9 cr max. Additional prerequisites announced in the Schedule of Classes each time course is offered.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 685 Senior Capstone Research Seminar:**

3 cr. Undergraduate.

Seminar study of a philosopher, philosophical movement, text, or topic for senior philosophy majors. Research paper and presentation required.

**Prerequisites:** sr st; declared Philos major; or cons instr.**Course Rules:** Satisfies L&S research req. May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2022, Fall 2018, Fall 2017, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 699 Independent Work**

2-3 cr. Undergraduate.

See Advanced Independent Work, undergrad bulletin.

**Prerequisites:** jr st; 3.0 in major or 2.0 overall GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken w/chg in topic to 9 cr max. Only 6 cr count toward Philos major. No more than 3 cr with any one instr except with writ cons dept.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 712 Fundamentals of Formal Logic**

3 cr. Graduate.

A study of basic aspects of contemporary formal logic.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHILOS 756 Seminar in Major Movements in Philosophical Thought:**

3 cr. Graduate.

Intensive study of school or movement such as continental rationalism, empiricism; existentialism, phenomenology, etc. Specific topic and any additional prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2017, Fall 2008, Spring 2007, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 758 Seminar in Major Philosophers:**

3 cr. Graduate.

Intensive study of the thought or system, or an important part of the thought or system, of a major figure in philosophy.

**Prerequisites:** graduate standing; consent of instructor.

**Course Rules:** Specific topics and any additional prerequisites announced in schedule of classes each time course is offered. Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 790 Advanced Topics in Philosophy:**

3 cr. Graduate.

Discussion of special advanced topics in Philosophy.

**Prerequisites:** graduate standing; additional prerequisites depending on topic.

**Course Rules:** Retakable with change in topic to 9 cr max. Specific topics may be jointly offered with COMPSCI.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 820 The Teaching of Philosophy**

0 cr. Graduate.

Discussion group with teaching assistants and their supervisor.

**Prerequisites:** Required for all teaching assistants teaching a Philosophy course.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Spring 2018, Summer 2017, Fall 2013, Summer 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 903 Seminar in Epistemology:**

2-3 cr. Graduate.

Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2021, Fall 2019, Spring 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 911 Seminar in Logic:**

2-3 cr. Graduate.

Specific topics and any additional prerequisites announced in Timetable each time course is offered.

**Prerequisites:** grad st & cons instr.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 920 Seminar in the Philosophy of Science:**

2-3 cr. Graduate.

Specific topics and any additional prerequisites announced in Timetable each time course is offered.

**Prerequisites:** grad st & cons instr.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2019, Spring 2015, Spring 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 941 Seminar in Ethics and Social and Political Philosophy:**

2-3 cr. Graduate.

Specific topics and any additional prerequisites announced in Timetable each time course is offered.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 960 Seminar in Metaphysics:**

2-3 cr. Graduate.

Specific topics and any additional prerequisites announced in Timetable each time course is offered.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2023, Fall 2021, Fall 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 990 Thesis**

3 cr. Graduate.

**Prerequisites:** grad st in option B or in Language & Linguistics concentration; cons major prof & committee.

**Course Rules:** Retakable only once in option B. Not retakable by students in Language & Linguistics concentration.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHILOS 999 Advanced Independent Study**

1-3 cr. Graduate.

**Prerequisites:** grad st & cons dept chair.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Physical Therapy (PT)

**PT 599 Independent Study**

1-3 cr. Undergraduate/Graduate.

Advanced undergraduate study in Physical Therapy.

**Prerequisites:** junior standing or graduate standing; and consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 599G Independent Study**

1-3 cr. Undergraduate/Graduate.

Advanced undergraduate study in Physical Therapy.

**Prerequisites:** junior standing or graduate standing; and consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 700 Introduction to Physical Therapy Practice and Examination Techniques**

3 cr. Graduate.

Students will learn roles, professional behavior expectations, and patient examination techniques.

**Prerequisites:** graduate standing; good standing in DPT program or consent of instructor.

**Course Rules:** Previously KIN 526.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 701 Clinical Foundations of the Physical Therapy Examination**

5 cr. Graduate.

Instruction in the techniques of examining patients/clients.

**Prerequisites:** graduate standing and good standing in DPT program.

**Course Rules:** Previously KIN 541.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 702 Scientific Principles of Interventions**

5 cr. Graduate.

The basic therapeutic interventions used to treat impairments and functional limitations in the different biological systems that lead to movement dysfunction.

**Prerequisites:** graduate standing and good standing in DPT program; graduate level Human Gross Anatomy course with lab; Anatomy/Physiology, Physics, 8 credits each with labs.

**Course Rules:** Previously KIN 640.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 704 Physical Agents**

2 cr. Graduate.

The physiological basis, scientific rationale for, and clinical application of thermal, electrophysiology/electrotherapy and electromagnetic physical agents.

**Prerequisites:** graduate standing; good standing in MSAT or DPT program; or consent of instructor.

**Course Rules:** Previously PRPP 758. ATRAIN 758 and PT 704 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 709 Research Practicum**

2 cr. Graduate.

Development of strategies for evaluating and contributing to the evidence for physical therapy practice. Students will select and critically review evidence, develop, execute and present a case report to inform best practice.

**Prerequisites:** graduate standing and good standing in DPT program; or consent of instructor.

**Course Rules:** Repeatable to 4 cr max. Previously PRPP 709.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 711 Health Promotion/Wellness for Physical Therapy Practice**

2 cr. Graduate.

Explores many aspects of health and wellness.

**Prerequisites:** graduate standing and good standing in DPT program or consent of instructor.

**Course Rules:** Previously KIN 745.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 712 Case-Based Clinical Decision Making**

2 cr. Graduate.

Clinical decision-making in physical therapy including formulation of a diagnosis and plan of care supported by evidence from literature.

**Prerequisites:** graduate standing and admis to DPT program or consent of instructor.

**Course Rules:** Previously KIN 746.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 714 Professionalism and Leadership in Healthcare**

1 cr. Graduate.

Advanced application of professionalism and leadership skills and behaviors with a focus on transition to independent practice.

**Prerequisites:** graduate standing; good standing in MSAT or DPT program; or consent of instructor.

**Course Rules:** Previously PRPP 704. ATRAIN 704 and PT 714 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 716 Clinical Radiology**

1-2 cr. Graduate.

Medical diagnostics emphasizing indications & implications for imaging studies used to augment information obtained from the physical therapy examination.

**Prerequisites:** graduate standing and admis to DPT program; or consent of instructor.

**Course Rules:** Previously KIN 718.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 720 Human Gross Anatomy**

6 cr. Graduate.

A comprehensive consideration of the human anatomy including both neuro-musculoskeletal components and internal organ systems.

**Prerequisites:** graduate standing and good standing in DPT program or consent of instructor.

**Course Rules:** Previously KIN 525.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 721 Medical Physiology**

3 cr. Graduate.

Physiological principles related to rehabilitation in physical therapy practice setting and interaction of physiological systems during normal activities and after injury or disease.

**Prerequisites:** graduate standing and good standing in DPT program or consent of instructor.

**Course Rules:** Previously PRPP 721.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 722 Medical Physiology II**

3 cr. Graduate.

Pathologies and pharmacologic agents related to rehabilitation in physical therapy practice and/or athletic training setting.

**Prerequisites:** graduate standing; good standing in MSAT or DPT program; or consent of instructor.

**Course Rules:** Previously PRPP 753. ATRAIN 753 and PT 722 are jointly offered and count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 723 Physiological Regulation in Exertion & Disease**

3 cr. Graduate.

Overview of the physiological basis of activity.

**Prerequisites:** graduate standing and good standing in DPT program or consent of instructor.

**Course Rules:** ATRAIN 723 and PT 723 are jointly offered and count as repeats of one another. Previously PRPP 736.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 731 Professional Development 1**

1 cr. Graduate.

Introduction to clinical education including professionalism, compliance, assessment, and interprofessional education.

**Prerequisites:** graduate standing and in good standing in DPT program; or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 732 Professional Development 2**

2 cr. Graduate.

Introduction to ethical theory and morality with application to healthcare professions, and inter-professional practice.

**Prerequisites:** graduate standing and in good standing in DPT program; or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 733 Professional Development 3**

2 cr. Graduate.

Advanced application of professionalism and leadership skills and behaviors with a focus on transition to independent practice.

**Prerequisites:** graduate standing and in good standing in DPT program; or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 734 Professional Development 4**

1 cr. Graduate.

Advanced application of professionalism and leadership skills and behaviors with a focus on transition to independent practice.

**Prerequisites:** graduate standing and in good standing in DPT program; or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 735 Advanced Clinical Reasoning**

4 cr. Graduate.

A systems overview of considerations necessary to complete a comprehensive physical therapy evaluation including the ability to recognize patient health risk factors, detect atypical symptoms and signs, and effectively utilize review of systems.

**Prerequisites:** graduate standing and in good standing in DPT program; or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 740 Kinesiology & Biomechanics of Normal & Abnormal Movement**

4 cr. Graduate.

Principles & theories of the biomechanics of human motion presented to develop analytical skills to assess normal & abnormal movement.

**Prerequisites:** graduate standing and DPT student in good standing; graduate level Human Gross Anatomy with lab and 8 credits of undergraduate Physics.

**Course Rules:** Previously KIN 527.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 750 Functional Neuroanatomy**

3 cr. Graduate.

The anatomical basis of neuroscience in physical therapy.

**Prerequisites:** graduate standing and good standing in DPT program or consent of instructor.

**Course Rules:** Previously KIN 566.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 751 Motor Behavior**

3 cr. Graduate.

The theoretical and research evidence basis for normal and disordered movement via motor control, motor learning, and motor development literature.

**Prerequisites:** graduate standing, good standing in DPT program, and a graduate level Neuroanatomy course; or graduate standing and consent of instructor.

**Course Rules:** Previously PRPP 764.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 760 Foundations of Interprofessional Practice**

1 cr. Graduate.

Introductory knowledge of interprofessional teamwork of health care professionals within the health care system.

**Prerequisites:** graduate standing; good standing in MSAT or DPT program; or consent of instructor.

**Course Rules:** Previously PRPP 703. ATRAIN 703 and PT 760 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 788 PT Independent Learning**

1-6 cr. Graduate.

Supervised learning and investigation leading to professional development as a physical therapist either not covered by other physical therapy courses.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 6 cr max. Satisfactory/Unsatisfactory only.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 798 Independent Project**

1-6 cr. Graduate.

Student research not covered by other physical therapy courses in consultation with and supervision by a DPT faculty member.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 12 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 799 Independent Reading**

1-3 cr. Graduate.

Independent study of a topic selected by the student in consultation with the supervising DPT faculty member.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 9 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 820 Cardiopulmonary Evaluation & Treatment**

3 cr. Graduate.

The normal and abnormal structure and function of the cardiovascular, pulmonary and lymphatic systems with emphasis on medical and other therapeutic strategies.

**Prerequisites:** graduate standing and good standing in DPT program or consent of instructor.

**Course Rules:** Previously KIN 641.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 821 Integument System**

2 cr. Graduate.

Exploration of factors predisposing skin to breakdown; preventative measures, specific examination, and intervention techniques utilized in treating burns, wounds, and amputations.

**Prerequisites:** graduate standing and admis to DPT program or consent of instructor.

**Course Rules:** Previously KIN 643.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 840 Musculoskeletal System: Lower Extremities**

3 cr. Graduate.

Orthopedic physical therapy evaluation and treatment aspects of lower extremity musculoskeletal problems involving skeletal, connective tissue and muscular components.

**Prerequisites:** graduate standing and admis to DPT program or consent of instructor.

**Course Rules:** Previously KIN 741.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 841 Musculoskeletal: Upper Extremities**

3 cr. Graduate.

Orthopedic physical therapy evaluation and treatment aspects of upper extremity musculoskeletal problems involving skeletal, connective tissue and muscular components.

**Prerequisites:** graduate standing and admis to DPT program or consent of instructor.

**Course Rules:** Previously KIN 742.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 842 Musculoskeletal: Spine**

3 cr. Graduate.

Evaluation and treatment techniques for spinal dysfunction and injury including mechanical assessment, postural training, therapeutic exercise, manual therapy, and modalities.

**Prerequisites:** graduate standing and admis to DPT program or consent of instructor.

**Course Rules:** Previously KIN 740.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 850 Neuromuscular: Adult**

4 cr. Graduate.

Application of motor control and learning, neuroanatomy, and neurophysiology to physical therapy examination and treatment of adults with neurological diagnosis.

**Prerequisites:** graduate standing and admis to DPT program or consent of instructor.

**Course Rules:** Previously KIN 765.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 852 Neuromuscular: Pediatric**

4 cr. Graduate.

Pediatric onset diagnosis, related examination, interventions, clinical management, and legislation impacting pediatric physical therapy practice.

**Prerequisites:** graduate standing and admis to DPT program or consent of instructor.

**Course Rules:** Previously KIN 766.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 880 Clinical Fieldwork I**

1 cr. Graduate.

The student will be assigned to a clinically based learning experience with an emphasis on practicing recently learned clinical skills on a patient population.

**Prerequisites:** graduate standing and good standing in DPT program or consent of instructor.

**Course Rules:** Previously KIN 680.

**Last Taught:** UWinteriM 2024, UWinteriM 2023, UWinteriM 2022, UWinteriM 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 881 Fieldwork II: Basic Skills Experience**

2 cr. Graduate.

Clinically based learning experience focusing on patient evaluation and treatment skills while fostering professional behavior through clinical mentorship.

**Prerequisites:** graduate standing and admis to DPT program; PT 880(P); or consent of instructor.

**Course Rules:** Previously KIN 681.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PT 900 Teaching, Learning and Educational Leadership in the Health Sciences**

3 cr. Graduate.

Overview of higher education in the health sciences and the responsibilities of the professoriate in fulfilling the missions of research, teaching, and service.

**Prerequisites:** graduate standing.**Course Rules:** ATRAIN 900, OCCTHPY 900, PRPP 900, and PT 900 are jointly offered and count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PT 901 Seminar in Physical Therapy**

1-3 cr. Graduate.

Scholarly discussion forum for graduate students, moderated by program faculty

**Prerequisites:** graduate standing.**Course Rules:** Repeatable to 9 cr max.**Last Taught:** Summer 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PT 909 Guided Teaching Experience in Health Sciences**

3 cr. Graduate.

This course provides the student, under the supervision of a faculty member, with the opportunity to design, deliver, and evaluate an undergraduate course.

**Prerequisites:** graduate standing, one of the following: ATRAIN 900(P), OCCTHPY 900(P), PRPP 900(P), or PT 900(P), and consent of instructor.**Course Rules:** Satisfactory/Unsatisfactory only. ATRAIN 909, BMS 909, COMSDIS 909, HCA 909, KIN 909, OCCTHPY 909, PT 909, and PRPP 909 are jointly offered and count as repeats of one another.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PT 980 PT Clinical Internship I**

8 cr. Graduate.

The Doctor of Physical Therapy student will be assigned to a clinical facility for internship practice.

**Prerequisites:** graduate standing and DPT student in good standing.**Course Rules:** Previously KIN 880.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PT 981 PT Clinical Internship II**

8 cr. Graduate.

The Doctor of Physical Therapy student will be assigned to a clinical facility for internship practice.

**Prerequisites:** graduate standing and DPT student in good standing.**Course Rules:** Previously KIN 881.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PT 982 PT Clinical Internship III**

8 cr. Graduate.

The Doctor of Physical Therapy student will be assigned to a clinical facility for internship practice.

**Prerequisites:** graduate standing, PT 981(P), and DPT student in good standing.**Course Rules:** Previously KIN 882.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PT 988 Professional Physical Therapy Credential Preparation**

1 cr. Graduate.

Guidance in preparing for the Federation of State Boards of Physical Therapy licensing exam.

**Prerequisites:** DPT student in good standing or graduate standing and consent of instructor.**Course Rules:** Previously KIN 889. Course is offered in a distance learning format.**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PT 990 Research and Dissertation**

1-12 cr. Graduate.

Production of a dissertation under the supervision of the student's major professor with the consultation of the degree committee.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Repeatable to 18 cr max. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PT 999 Advanced Independent Study**

1-6 cr. Graduate.

Supervised investigation of particular topic area either not covered by other physical therapy courses or at a level of sophistication beyond that in a course.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Repeatable to 9 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Physics (PHYSICS)

**PHYSICS 100 Quantitative Preparation for Physics**

2 cr. Undergraduate.

Introductory course in general physics designed for the student with little or no previous science training.

**Prerequisites:** Math Placement Level 10.**Course Rules:** Fee for 3 cr assessed. Not open to students w/cr in Physics 110(ER), 120(ER), or 209(ER).**Last Taught:** Fall 2019, Spring 2015, Fall 2014, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 107 Physics in Everyday Life**

3 cr. Undergraduate.

Selected topics for citizens in a technological world. Emphasis on those aspects of science important to an understanding of our surroundings.

For non-science majors.

**Prerequisites:** Math Placement Level 10 or consent of instructor.**Course Rules:** May not be taken conc with or after having taken PHYSICS 120(ER) or PHYSICS 209(ER).**General Education Requirements:** NS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 108 Laboratory for Physics in Everyday Life**

1 cr. Undergraduate.

Experiments correlated with Physics 107.

**Prerequisites:** Physics 107(C).**General Education Requirements:** NS+**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 110 Physics for the Health Professions**

4 cr. Undergraduate.

An introductory course without laboratory for students in health-related pre-professional programs. Topics include mechanics, fluids, heat, sound, electricity, magnetism, electrical devices, optics, and radioactivity. 3 hrs lec, 1 hr dis.

**Prerequisites:** H.S. general science; Math Placement Level 20.

**Course Rules:** May not be taken conc with or after having taken Physics 120(ER) or 209(ER).

**General Education Requirements:** NS

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 120 General Physics I (Non-Calculus Treatment)**

4 cr. Undergraduate.

Mechanics, wave motion, heat, and sound. 3 hrs lec, 2 hrs dis.

**Prerequisites:** Math Placement Level 30 or grade of C or better in Physics 100(P); HS trig or Physics 100 strongly recom.

**Course Rules:** Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 121 General Physics Laboratory I (Non-Calculus Treatment)**

1 cr. Undergraduate.

Experiments correlated with lecture material of Physics 120.

**Prerequisites:** Physics 120(C).

**Course Rules:** Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 122 General Physics II (Non-Calculus Treatment)**

4 cr. Undergraduate.

Electricity, optics, modern physics. 3 hrs lec, 2 hrs dis.

**Prerequisites:** Physics 120(NP).

**Course Rules:** Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 123 General Physics Laboratory II (Non-Calculus Treatment)**

1 cr. Undergraduate.

Experiments on topics related to the lecture material of Physics 122.

**Prerequisites:** Physics 122(C).

**Course Rules:** Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 185 Basic Physics for Teachers**

3 cr. Undergraduate.

Simple machines; work, energy and power; heating and cooling; static electricity and elementary electrical circuits; waves. 2 hrs lec; 2 hrs lab/dis.

**Prerequisites:** Math 175(P) & cons instr.

**Course Rules:** Not open for cr to students with cr in Physics courses numbered 110 or above.

**General Education Requirements:** NS+

**Last Taught:** Spring 2014, Spring 2013, Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 194 First-Year Seminar.**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** NS

**Last Taught:** Fall 2021, Fall 2019, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Spring 2016, Spring 2008, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 209 Physics I (Calculus Treatment)**

4 cr. Undergraduate.

Selected topics in mechanics, wave motion, sound, and heat. 3 hrs lec, 2 hrs dis.

**Prerequisites:** Math 227(C), 228(C), or 232(C).

**Course Rules:** Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 210 Physics II (Calculus Treatment)**

4 cr. Undergraduate.

Continuation of Physics 209. Electromagnetic field theory and optics. 3 hrs lec, 2 hrs dis.

**Prerequisites:** grade of C- or better in Physics 209(NP); Math 229(C) or 233(C).

**Course Rules:** Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation.

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**PHYSICS 214 Lab Physics I (Calculus Treatment)**

1 cr. Undergraduate.

Experiments in mechanics, wave motion, heat, and thermodynamics. 3 hrs lab.

**Prerequisites:** Physics 209(C).

**Course Rules:** Any combination of Physics 120, 121, 209, 214, 219 carries 5 cr max toward graduation.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 215 Lab Physics II (Calculus Treatment)**

1 cr. Undergraduate.

Experiments in electricity, magnetism, and optics. 3 hrs lec.

**Prerequisites:** Physics 210(C).

**Course Rules:** Any combination of Physics 122, 123, 210, 215, 220 carries 5 cr max toward graduation.

**General Education Requirements:** NS+

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 219 Physics I: Calculus-Based, Studio Format**

5 cr. Undergraduate.

Basic kinematics; Newton. Selected topics in mechanics, wave motion, sound, and heat. 8 hrs lec/lab.

**Prerequisites:** Math 227(C), 228(C), or 232(C).

**Course Rules:** Not open to students w/cr in Physics 209. Any combination of Physics 120, 121, 209, 214, 219 carries max 5 cr toward graduation.

**General Education Requirements:** NS+

**Last Taught:** Fall 2018, Fall 2017, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 220 Physics II: Calculus-Based, Studio Format**

5 cr. Undergraduate.

Electromagnetic field theory and optics.

**Prerequisites:** grade of C or better in Physics 219(NP); Math 229(C) or 233(C).

**Course Rules:** Not open to students w/cr in Physics 210. Any combination of Physics 122, 123, 210, 215, 220 carries max 5 cr toward graduation.

**General Education Requirements:** NS+

**Last Taught:** Spring 2018, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 265 Physics and the Energy Problem**

3 cr. Undergraduate.

Study of how the laws of physics (particularly 1st and 2nd Laws of Thermodynamics) limit society's options in dealing with scarcity of utilizable energy.

**Prerequisites:** H.S. algebra; Physics 107(P), 110(P), 120(P), or 209(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 270 Introduction to Computational Physics**

3 cr. Undergraduate.

Use of computers to solve physics problems, including particle collisions, chaotic systems, planetary motion, and other topics related to relativity and quantum mechanics.

**Prerequisites:** Physics 209(P); Math 233(C).

**Last Taught:** Spring 2008, Fall 2006, Fall 2005, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 289 Internship in Physics, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of physics in a research, business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in physics; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance into UROP; prior or conc reg in UROP seminar.

**Course Rules:** One cr for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses.

**Last Taught:** Spring 2022, Spring 2018, Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2015, Summer 2011, Spring 2010, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2022, Fall 1994, Fall 1991, Spring 1991.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 305 Medical Physics**

3 cr. Undergraduate.

Applications of physics to living systems & medical diagnostics. 3 hrs lec.

**Prerequisites:** grade of B+ or better in Physics 209(P). (Conc reg in Physics 210 strongly recom).

**Course Rules:** Primarily for premed students and others in the medical & biological sciences. Approved for Premed Stds Cert Prog.

**Last Taught:** Spring 2011, Fall 2004, Spring 2003, Spring 2002.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 306 Introduction to Biophysics**

3 cr. Undergraduate.

Physical foundations of cellular phenomena; physical laws of complex biological systems; imaging and instrumentation for biophysics. 3 hrs lec.

**Prerequisites:** Physics 122(P) or 210(P); Chemistry 104(P) or 105(P).

**Course Rules:** Approved for Premed Stds Cert Prog.

**Last Taught:** Spring 2022, Spring 2020, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 309 Physics III: Modern Physics**

3 cr. Undergraduate.

Elementary quantum physics, atomic and molecular physics, solid state and nuclear physics.

**Prerequisites:** jr st; B- or better in either PHYSICS 210(NP) or PHYSICS 220(NP); B- or better in MATH 233; MATH 234(C) or ELECENG 234(C); or consent of instructor.**Course Rules:** Not open for cr to students who have cr in PHYSICS 341.**General Education Requirements:** QL B**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 317 Thermodynamics**

3 cr. Undergraduate.

Classical thermodynamics, including entropy, the use of thermodynamic potentials, and applications to pressure-volume and other systems. Some basic statistical physics may be included.

**Prerequisites:** Physics 210(NP).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 325 Optics**

4 cr. Undergraduate.

Geometric and physical optics, image formation, interference, diffraction, polarization, optical instruments, resolving power, coherence, lasers, holography. Selected experiments in optics. Studio-format course.

**Prerequisites:** Math 234(P) & Physics 309(C) or cons instr.**Course Rules:** Counts as repeat of Physics 325 & 2 cr of Physics 410.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 351 Basics of Condensed Matter Physics**

3 cr. Undergraduate.

Basic principles of condensed-matter physics. Crystals and amorphous materials; bonding; magnetic, thermal, and transport properties; band theory.

**Prerequisites:** Physics 309(P) or Chem 311(P).**Course Rules:** Counts as repeat of Physics 499 w/same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 370 Analytical and Numerical Methods in Physics**

3 cr. Undergraduate.

Solutions to various physics problems. Applications (both analytical and numerical) from mechanics, electrodynamics, quantum mechanics, astrophysics, condensed matter physics.

**Prerequisites:** B- or better in either Physics 210(NP) or Physics 220(NP); B- or better in Math 233(P); Math 234(C) or ElecEng 234(C); or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 381 Honors Seminar**

3 cr. Undergraduate.

Selected topics concerning history and the nature of physics as an intellectual discipline.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.**Course Rules:** May be retaken with change in topic to 9 cr max. No cr toward major.**General Education Requirements:** NS**Last Taught:** Fall 2017, Fall 2016, Fall 2013, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 391 Undergraduate Research Participation**

1-6 cr. Undergraduate.

Independent research for undergraduates on faculty-supervised research projects.

**Prerequisites:** Physics 309(P)); 3.25 GPA in physics courses; cons instr.**Course Rules:** May be retaken w/chg in topic to 6 cr max; non-repeatable for change of grade.**Last Taught:** Fall 2023, Spring 2022, Summer 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 406 Introduction to Infrared Microspectroscopy**

3 cr. Undergraduate.

Microscopy and spectroscopy methods for identification of chemical composition introducing interdisciplinary opportunities in fundamental and industrial applications.

**Prerequisites:** Bio Sci 150(P) & 152(P); or Physics 209(P) & 210(P); or Chem 102(P) & 104(P); or Chem 105(P).**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 408 Experiments in Linear Electronics**

3 cr. Undergraduate/Graduate.

Transistor and integrated circuit characteristics; electronic measurement and control.

**Prerequisites:** jr st; Physics 210(P).**Course Rules:** No cr for students w/cr in ElecEng 330(R).**Last Taught:** Fall 2020, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 408G Experiments in Linear Electronics**

3 cr. Undergraduate/Graduate.

Transistor and integrated circuit characteristics; electronic measurement and control.

**Prerequisites:** jr st; Physics 210(P).**Course Rules:** No cr for students w/cr in ElecEng 330(R).**Last Taught:** Fall 2020, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 409 Modern Physics Laboratory**

3 cr. Undergraduate.

Selected experiments in modern physics using advanced lab instrumentation.

**Prerequisites:** jr st; Physics 309(P) or cons instr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 411 Mechanics**

4 cr. Undergraduate/Graduate.

Kinematics, vector analysis, conservation laws, oscillations, variational methods, chaos, Lagrangian and Hamiltonian mechanics.

**Prerequisites:** jr st; Physics 210(NP).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 411G Mechanics**

4 cr. Undergraduate/Graduate.

Kinematics, vector analysis, conservation laws, oscillations, variational methods, chaos, Lagrangian and Hamiltonian mechanics.

**Prerequisites:** jr st; Physics 210(NP).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 420 Electricity and Magnetism I**

3 cr. Undergraduate/Graduate.

Electrostatics, capacitance, boundary value problems, multipole expansion, dielectrics, magnetostatics, vector potential, magnetic properties of matter, motional emf, inductance, Maxwell's equations in differential form.

**Prerequisites:** junior standing, PHYSICS 210(NP), and a grade of B- or better in MATH 325(P); or MATH 325(P) and a grade of B- or better in PHYSICS 370(P); or graduate standing.

**Course Rules:** Counts as repeat of 2 cr of PHYSICS 421.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 420G Electricity and Magnetism I**

3 cr. Undergraduate/Graduate.

Electrostatics, capacitance, boundary value problems, multipole expansion, dielectrics, magnetostatics, vector potential, magnetic properties of matter, motional emf, inductance, Maxwell's equations in differential form.

**Prerequisites:** junior standing, PHYSICS 210(NP), and a grade of B- or better in MATH 325(P); or MATH 325(P) and a grade of B- or better in PHYSICS 370(P); or graduate standing.

**Course Rules:** Counts as repeat of 2 cr of PHYSICS 421.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 422 Electricity and Magnetism II**

3 cr. Undergraduate/Graduate.

Conservation laws in electrodynamics, Maxwell's stress tensor, electromagnetic waves, absorption, dispersion, reflection and transmission of plane electromagnetic waves, wave guides, retarded potentials, radiation, electrodynamics and relativity.

**Prerequisites:** jr st, C or better in PHYSICS 420(P); or grad st.

**Course Rules:** Counts as repeat of 2 cr of PHYSICS 421.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 422G Electricity and Magnetism II**

3 cr. Undergraduate/Graduate.

Conservation laws in electrodynamics, Maxwell's stress tensor, electromagnetic waves, absorption, dispersion, reflection and transmission of plane electromagnetic waves, wave guides, retarded potentials, radiation, electrodynamics and relativity.

**Prerequisites:** jr st, C or better in PHYSICS 420(P); or grad st.

**Course Rules:** Counts as repeat of 2 cr of PHYSICS 421.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 441 Introduction to Quantum Mechanics I**

4 cr. Undergraduate/Graduate.

Historical background and experimental basis, De Broglie waves, correspondence principle, uncertainty principle, Schroedinger equation; hydrogen atom, electron spin, Pauli Principle, applications of wave mechanics.

**Prerequisites:** junior standing, PHYSICS 309(NP), and MATH 325(C); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 441G Introduction to Quantum Mechanics I**

4 cr. Undergraduate/Graduate.

Historical background and experimental basis, De Broglie waves, correspondence principle, uncertainty principle, Schroedinger equation; hydrogen atom, electron spin, Pauli Principle, applications of wave mechanics.

**Prerequisites:** junior standing, PHYSICS 309(NP), and MATH 325(C); or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 442 Introduction to Quantum Mechanics II**

3 cr. Undergraduate/Graduate.

Continuation of PHYSICS 441, emphasizing perturbation theory and applications to multi-electron systems, including atoms, molecules, and solids.

**Prerequisites:** jr st; C or better in PHYSICS 441(NP); or grad st.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 442G Introduction to Quantum Mechanics II**

3 cr. Undergraduate/Graduate.

Continuation of PHYSICS 441, emphasizing perturbation theory and applications to multi-electron systems, including atoms, molecules, and solids.

**Prerequisites:** jr st; C or better in PHYSICS 441(NP); or grad st.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 489 Internship in Physics, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of physics in a research, business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Physics; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2014, Spring 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2014, Spring 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 498 Undergraduate Physics Seminar**

1 cr. Undergraduate.

Talks by faculty, visitors, and students on topics of current interest in physics, astronomy, and other science and engineering fields.

**Prerequisites:** sr st; Physics 411(C), 421(C), or 441(C).**Course Rules:** Cr/no cr only.**Last Taught:** Fall 2010, Spring 2010, Fall 2009, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2013, Spring 2011, Spring 2007, Spring 2004.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 501 Special Topics: Mathematical Models of Physical Problems I**

3 cr. Undergraduate/Graduate.

Selected topics in mathematics for study of the techniques and procedures for stating physical problems in mathematical terms and the physical interpretation of mathematical solutions.

**Prerequisites:** jr st; Physics 210(P); Math 234(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 501G Special Topics: Mathematical Models of Physical Problems I**

3 cr. Undergraduate/Graduate.

Selected topics in mathematics for study of the techniques and procedures for stating physical problems in mathematical terms and the physical interpretation of mathematical solutions.

**Prerequisites:** jr st; Physics 210(P); Math 234(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 502 Special Topics: Mathematical Models of Physical Problems II**

3 cr. Undergraduate/Graduate.

More selected topics in mathematical models.

**Prerequisites:** jr st; Physics 210(P); Math 234(P). Physics 501(R).**Last Taught:** Spring 2007, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 502G Special Topics: Mathematical Models of Physical Problems II**

3 cr. Undergraduate/Graduate.

More selected topics in mathematical models.

**Prerequisites:** jr st; Physics 210(P); Math 234(P). Physics 501(R).**Last Taught:** Spring 2007, Spring 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 515 Statistical Mechanics**

3 cr. Undergraduate/Graduate.

Brief survey of thermodynamics; statistical mechanics; classical and quantum gases.

**Prerequisites:** jr st; Physics 317(P) & 441(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 515G Statistical Mechanics**

3 cr. Undergraduate/Graduate.

Brief survey of thermodynamics; statistical mechanics; classical and quantum gases.

**Prerequisites:** jr st; Physics 317(P) & 441(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 517 Special Relativity**

3 cr. Undergraduate/Graduate.

Relativistic kinematics, the Lorentz transformation, tensor calculus, applications to motion of particles, electromagnetism.

**Prerequisites:** jr st; Physics 411(R) & 421(R).**Last Taught:** Fall 2017, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 517G Special Relativity**

3 cr. Undergraduate/Graduate.

Relativistic kinematics, the Lorentz transformation, tensor calculus, applications to motion of particles, electromagnetism.

**Prerequisites:** jr st; Physics 411(R) & 421(R).**Last Taught:** Fall 2017, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 531 Principles of Quantum Mechanics I**

3 cr. Undergraduate/Graduate.

Vector and Hilbert spaces; Schroedinger equation in 1, 2, and 3 dimensions; systems of many particles; symmetries; angular momentum.

**Prerequisites:** jr st; Physics 441(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 531G Principles of Quantum Mechanics I**

3 cr. Undergraduate/Graduate.

Vector and Hilbert spaces; Schroedinger equation in 1, 2, and 3 dimensions; systems of many particles; symmetries; angular momentum.

**Prerequisites:** jr st; Physics 441(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 532 Principles of Quantum Mechanics II**

3 cr. Undergraduate/Graduate.

Continuation of 531. Spin; hydrogen atom; variational methods; WKB approximation; perturbation theory; scattering theory; Dirac equation.

**Prerequisites:** jr st; Physics 531(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 532G Principles of Quantum Mechanics II**

3 cr. Undergraduate/Graduate.

Continuation of 531. Spin; hydrogen atom; variational methods; WKB approximation; perturbation theory; scattering theory; Dirac equation.

**Prerequisites:** jr st; Physics 531(P).**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 541 Elementary Particles**

3 cr. Undergraduate/Graduate.

Accelerators and detectors; special unitary groups; quark model of hadrons; Feynman diagrams; electromagnetic, weak and strong interactions of quarks and leptons; Higgs boson.

**Prerequisites:** jr st; Physics 441(P).**Last Taught:** Fall 2011, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 541G Elementary Particles**

3 cr. Undergraduate/Graduate.

Accelerators and detectors; special unitary groups; quark model of hadrons; Feynman diagrams; electromagnetic, weak and strong interactions of quarks and leptons; Higgs boson.

**Prerequisites:** jr st; Physics 441(P).**Last Taught:** Fall 2011, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 551 Introduction to Solid State Physics I**

3 cr. Undergraduate/Graduate.

Crystal structure, reciprocal lattice; crystal binding; elastic waves; phonons, lattice vibrations; thermal properties of insulators; free electron Fermi gas. Band structure; semiconductor crystals; Fermi surface.

**Prerequisites:** jr st; Physics 441(P) or cons instr.**Last Taught:** Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 551G Introduction to Solid State Physics I**

3 cr. Undergraduate/Graduate.

Crystal structure, reciprocal lattice; crystal binding; elastic waves; phonons, lattice vibrations; thermal properties of insulators; free electron Fermi gas. Band structure; semiconductor crystals; Fermi surface.

**Prerequisites:** jr st; Physics 441(P) or cons instr.**Last Taught:** Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 575 Vacuum Science and Technology**

3 cr. Undergraduate/Graduate.

Viscous and molecular flow, vacuum materials and seals, metal-to-ceramic seals, evaporation and vapor pressures, vacuum pumps, vacuum gauges, mass spectrographs, chemical reactions at surfaces, outgassing.

**Prerequisites:** jr st; Physics 441(P).**Last Taught:** Spring 2011, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 575G Vacuum Science and Technology**

3 cr. Undergraduate/Graduate.

Viscous and molecular flow, vacuum materials and seals, metal-to-ceramic seals, evaporation and vapor pressures, vacuum pumps, vacuum gauges, mass spectrographs, chemical reactions at surfaces, outgassing.

**Prerequisites:** jr st; Physics 441(P).**Last Taught:** Spring 2011, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 606 Molecular, Cellular, and System Biophysics**

3 cr. Undergraduate.

Cell structure and the molecular basis of life. Molecular and cellular interactions. Supracellular organization, signaling, and communication. Selfsimilarity and cooperativity.

**Prerequisites:** jr st, Physics 210(P), & writ cons instr; or grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 610 The Art and Science of Teaching Physics**

1 cr. Undergraduate/Graduate.

Participants critique lectures, videotapes of experienced teachers, each other; address conceptual problems facing beginning students; gain familiarity with demonstrations, classroom technology; discuss their own classes.

**Prerequisites:** appt as undergrad TA or grad st.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 610G The Art and Science of Teaching Physics**

1 cr. Undergraduate/Graduate.

Participants critique lectures, videotapes of experienced teachers, each other; address conceptual problems facing beginning students; gain familiarity with demonstrations, classroom technology; discuss their own classes.

**Prerequisites:** appt as undergrad TA or grad st.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 651 Introduction to Solid State Physics II**

3 cr. Undergraduate/Graduate.

Transport, superconductivity, dielectric properties, ferroelectric crystals, magnetism, magnetic resonance, optical phenomena in insulators, nanostructures, non-crystalline solids, point defects, alloys, dislocations.

**Prerequisites:** jr st; Physics 551(P).**Last Taught:** Fall 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 651G Introduction to Solid State Physics II**

3 cr. Undergraduate/Graduate.

Transport, superconductivity, dielectric properties, ferroelectric crystals, magnetism, magnetic resonance, optical phenomena in insulators, nanostructures, non-crystalline solids, point defects, alloys, dislocations.

**Prerequisites:** jr st; Physics 551(P).**Last Taught:** Fall 2021, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 670 Electron Microscopy Laboratory**

3 cr. Undergraduate/Graduate.

Diffraction, imaging, and spectroscopy methods for study of morphology, crystallinity, and composition of solids in a transmission electron microscope.

**Prerequisites:** sr st; Physics 551(P) or cons instr.**Last Taught:** Fall 2012, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 670G Electron Microscopy Laboratory**

3 cr. Undergraduate/Graduate.

Diffraction, imaging, and spectroscopy methods for study of morphology, crystallinity, and composition of solids in a transmission electron microscope.

**Prerequisites:** sr st; Physics 551(P) or cons instr.**Last Taught:** Fall 2012, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 698 Research Experience for Teachers**

1-6 cr. Undergraduate/Graduate.

Enrichment of students' physics background. Work with faculty mentor to develop an innovative teaching program for use in students' own classroom.

**Prerequisites:** sr st; current teaching contract.**Course Rules:** Open only to practicing science teachers with demonstrable expertise in physics. May be retaken to 9 cr max.**Last Taught:** Summer 2010, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 698G Research Experience for Teachers**

1-6 cr. Undergraduate/Graduate.

Enrichment of students' physics background. Work with faculty mentor to develop an innovative teaching program for use in students' own classroom.

**Prerequisites:** sr st; current teaching contract.**Course Rules:** Open only to practicing science teachers with demonstrable expertise in physics. May be retaken to 9 cr max.**Last Taught:** Summer 2010, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 699 Advanced Independent Reading**

1-3 cr. Undergraduate.

Independent reading or research under supervision of faculty member. Study proposal required. For further information, consult dept chair or undergrad advising coord.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Summer 2018, Fall 2016, Summer 2015, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 705 Molecular, Cellular, and System Biophysics**

3 cr. Graduate.

Cell structure and the molecular basis for life. Molecular and cellular interactions. Supracellular organization, signalling, and communication. Self-similarity and cooperativity.

**Prerequisites:** grad st**Last Taught:** Spring 2022, Spring 2020, Fall 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 706 Biophotonics**

3 cr. Graduate.

Biophotonics and bioimaging; overview of application of optics in biology and medicine based on the understanding of basic optics, spectroscopy, and imaging theory.

**Prerequisites:** grad st**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 707 Structural Molecular Biophysics**

3 cr. Graduate.

Methods in molecular biophysics.

**Prerequisites:** grad st; major in science-based discipline & Physics 210(P), or writ cons instr.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 711 Theoretical Physics-Dynamics**

3 cr. Graduate.

Lagrange equations, canonical formulation, principle of least action, normal coordinates, rigid bodies, special relativity, mathematical methods.

**Prerequisites:** grad st; Math 321(C) or 322(C); or 701(C) or 702(C).**Last Taught:** Spring 2023, Spring 2021, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 716 Advanced Topics in Statistical Physics**

3 cr. Graduate.

Systems of interacting particles; critical phenomena; transport theory; irreversible processes and fluctuations; model calculations for interacting systems of particles.

**Prerequisites:** grad st; Physics 515(P), 532(P).**Last Taught:** Spring 2016, Spring 2010, Spring 2008, Fall 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 717 Gravitation**

3 cr. Graduate.

General theory of relativity. Metric, covariant derivative, and curvature. Einstein field equations. Newtonian and weak-field limits. Gravitational waves. Experimental tests. Black holes and relativistic stars.

**Prerequisites:** grad st; Physics 517(P).**Last Taught:** Fall 2023, Fall 2020, Spring 2018, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 718 White Dwarfs, Neutron Stars, and Black Holes**

3 cr. Graduate.

Physics of compact objects; newtonian and relativistic stellar structure and stability; pulsars, x-ray sources; accretion disks; gravitational collapse; stellar-size and supermassive black holes; quasars.

**Prerequisites:** grad st; Physics 717(P) or cons instr.**Last Taught:** Spring 2021, Spring 2019, Spring 2017, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 720 Electrodynamics I**

3 cr. Graduate.

Maxwell's equations; Helmholtz theorem; scalar and vector potentials; boundary value problems; plane wave solutions.

**Prerequisites:** grad st; Physics 711(P).**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 721 Electrodynamics II**

3 cr. Graduate.

Wave guides, radiation by charges; radiation reaction; radiation scattering, damping and dispersion; covariant formulation of electrodynamics.

**Prerequisites:** grad st; Physics 720(P).**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 722 Advanced Classical Theoretical Physics**

3 cr. Graduate.

Selected topics in dynamics, electromagnetism, or other areas of classical physics.

**Prerequisites:** graduate standing; PHYSICS 721(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 731 Quantum Mechanics**

3 cr. Graduate.

Mathematical formalism of quantum mechanics. Observables and transformation theory, scattering perturbation, other approximation methods.

**Prerequisites:** grad st; Physics 532(P) & 711(P).**Last Taught:** Fall 2004, Fall 2002, Fall 1998, Fall 1993.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 735 High Energy Physics**

3 cr. Graduate.

Special relativity applied to high energy collisions, experimental techniques, ionization and radiation at high energy, weak interactions theory, II-meson and strange particle interactions, ultra-high energy phenomena.

**Prerequisites:** grad st & Physics 732(P).**Last Taught:** Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 751 Solid State Theory I**

3 cr. Graduate.

Phonons, plasmons, magnons, fermion fields and the hartree-fock approximation, and electron many-body techniques and the electron gas.

**Prerequisites:** grad st; Physics 531(P) & Physics 651(P).**Last Taught:** Spring 2018, Fall 2015, Fall 2013, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 752 Solid State Theory II**

3 cr. Graduate.

Dynamics of electrons in a magnetic field: energy bands, cyclotron resonance, impurity states, optical absorption and excitons in semiconductor crystals; electrodynamics of metals; green's functions.

**Prerequisites:** grad st & Physics 532(P) & 751(P).**Last Taught:** Spring 2014, Spring 2008, Spring 2006, Spring 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 770 Electron Microscopy**

3 cr. Graduate.

Kinematical and dynamical theory of electron diffraction. Transfer function theory of imaging. Electron and x-ray spectroscopies. Applications to surfaces and interfaces.

**Prerequisites:** grad st; Physics 551(P) or cons instr.**Last Taught:** Fall 2011, Spring 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 775 Surface Physics I**

3 cr. Graduate.

Survey of experimental techniques in surface physics research.

**Prerequisites:** grad st; Physics 515(P) & 575(P).**Last Taught:** Spring 2016, Spring 2012, Fall 2008, Fall 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 781 Medical Radiation Physics**

3 cr. Graduate.

Physical principles of the generation, interaction, detection, and measurement of radiation in medical applications; basics of radiation protection.

**Prerequisites:** grad st**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 782 Physics of Medical Imaging**

3 cr. Graduate.

Basic theoretical knowledge of the physics of diagnostic radiology using x-rays, magnetic resonance, nuclear medicine, and ultrasounds.

**Prerequisites:** grad st**Last Taught:** Spring 2021, Spring 2010, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 784 Radiotherapy Physics**

3 cr. Graduate.

Radiation physics for work as a hospital physicist, including accelerators for radiation therapy, quality characteristics of treatment beams, treatment planning, treatment techniques, quality assurance, oncology.

**Prerequisites:** grad st**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 786 Medical Physics Practicum**

3 cr. Graduate.

Training with clinical medical imaging and therapy equipment, and dosimetry instrumentation.

**Prerequisites:** grad st; Physics 781(P)**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 801 Special Topics in Theoretical Physics:**

2-3 cr. Graduate.

Discussion of recent research or advanced special topics.

**Prerequisites:** grad st & cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2021, Fall 2016, Spring 2015, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 807 Group Theory and Its Applications to Physics**

3 cr. Graduate.

Representations of discrete and continuous groups, including rotation groups, unitary groups and crystal point and space groups. Symmetries of elementary particles. Molecular orbitals, energy bands.

**Prerequisites:** grad st; Physics 532(P).**Course Rules:** Counts as repeat of Math 807.**Last Taught:** Spring 2021, Spring 2018, Spring 2013, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 811 Nonlinear Dynamics and Chaos**

3 cr. Graduate.

Iteration of maps, numerical integration, strange attractors in dissipative systems, fractal dimensions, multifractals, entropy. Chaos in hamiltonian systems, perturbation theory, kam theorem. Quantum chaos.

**Prerequisites:** grad st; Physics 711(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 817 Gravitation and Cosmology II**

3 cr. Graduate.

Experimental tests in gravitation. Gravitational waves: generation, detection. Spinning black holes. Cosmology: idealised cosmologies; present state of the universe; nucleosynthesis; inflation; recent developments.

**Prerequisites:** grad st; Physics 717(P) or cons instr.**Last Taught:** Spring 2022, Fall 2019, Spring 2018, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PHYSICS 818 Advanced Topics in Gravitational Physics**

3 cr. Graduate.

Topics depend on student interest. Initial value problem. Spinors and positive mass. Singularity theorems. Modern kaluza-klein theory. Approaches to quantum gravity.

**Prerequisites:** grad st; Physics 717(P).**Last Taught:** Spring 2020, Spring 2016, Spring 2012, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 831 Quantum Field Theory I**

3 cr. Graduate.

Group theory, canonical and path integral quantization, feynman rules, quantum electrodynamics, renormalization, quantum chromodynamics, electroweak theory, spontaneous symmetry breaking.

**Prerequisites:** grad st; Physics 732(P).**Last Taught:** Spring 2023, Fall 2017, Fall 2013, Spring 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 852 Superconductivity**

3 cr. Graduate.

Properties of type I and type II superconductors, bcs and ginzburg-landau theory, vortices, and flux dynamics.

**Prerequisites:** grad st; Physics 532(P) & 651(P).**Last Taught:** Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 853 Superfluidity**

3 cr. Graduate.

Bose-Einstein condensation. Properties of superfluid 4HE, 3HE and 3HE-4HE mixtures.

**Prerequisites:** grad st; Physics 551(P) & 651(P) or physics 515(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 854 Electron Phonon Interaction**

3 cr. Graduate.

Wave propagation in metals. Interaction of electrons with the lattice in normal metals, superconductors, and magnetic materials.

**Prerequisites:** grad st; Physics 532(P) & 651(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 890 Master's Thesis**

1-6 cr. Graduate.

Course for students completing supervised Master's Thesis.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Repeatable to 12 cr max. Satisfactory/Unsatisfactory only. Credit(s) count toward Master's degree only if student completes thesis option.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 891 Master's Capstone Project**

1-3 cr. Graduate.

Independent project supervised by student's advisor.

**Prerequisites:** graduate standing; consent of instructor and graduate program committee.**Course Rules:** May not be taken for credit more than once.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 900 Colloquium**

1 cr. Graduate.

Lectures by staff and visitors on research in various areas of physics.

**Prerequisites:** grad st.**Last Taught:** Fall 2017, Fall 2014, Spring 2013, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 903 Seminar in Theoretical Physics:**

1-3 cr. Graduate.

Discussion of special topics of interest to research students in theoretical physics. Retakable w/chg in topic to 9 cr max. Prereq: grad st & cons instr.

**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 904 Seminar in Surface Studies:**

1-3 cr. Graduate.

Special topics in the chemistry and physics of surface studies. Specific topics and any additional prerequisites announced in Timetable each time course is offered.

**Prerequisites:** grad st; cons instr.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 906 Seminar in Biophysics:**

1-3 cr. Graduate.

Special topics in experimental biophysics. Retakable with change in topic to 9 cr max.

**Prerequisites:** grad st; cons instr.**Last Taught:** Spring 2021, Spring 2019, Fall 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 990 Research**

1-9 cr. Graduate.

**Prerequisites:** grad st & cons instr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PHYSICS 999 Independent Reading**

1-3 cr. Graduate.

For the benefit of graduate students unable to secure needed content in regular courses.

**Prerequisites:** grad st, cons instr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Polish (POLISH)

**POLISH 101 First-Semester Polish**

4 cr. Undergraduate.

A systematic introduction to the Polish language.

**Prerequisites:** none.**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**POLISH 102 Second-Semester Polish**

4 cr. Undergraduate.

Continuation of POLISH 101.

**Prerequisites:** POLISH 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 192 First-Year Seminar**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 197 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 199 Independent Study**

1-4 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Fall 2022, Spring 2018, Fall 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 201 Third-Semester Polish**

3 cr. Undergraduate.

Review of grammar and readings.

**Prerequisites:** Polish 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 202 Fourth-Semester Polish**

3 cr. Undergraduate.

Continuation of Polish 201.

**Prerequisites:** Polish 201(P). Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

**Last Taught:** Spring 2013, Spring 2010, Spring 2009, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 236 Polish Culture in its Historical Setting**

3 cr. Undergraduate.

Major achievements of Polish culture during ten centuries of existence. Art, architecture, literature, music, and film viewed against crucial historical developments that formed Poland and its people.

**Prerequisites:** none.

**Course Rules:** May be used to repeat Geog 236.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 260 Survey of Polish Literature-in-Translation: 1863 to the Present**

3 cr. Undergraduate.

**Prerequisites:** none. One course in 100-level lit-in-trans or 200-level English lit advisable.

**General Education Requirements:** HU

**Last Taught:** Fall 2009, Fall 2008, Fall 2007, Spring 1997.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 289 Internship in Polish, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Polish in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Polish; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 290 Summer Study in Poland:**

2-6 cr. Undergraduate.

Studies in Polish language, culture and civilization at a Polish university; lectures and field trips; credit level determined by length of program.

**Prerequisites:** cons instr.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2007, Summer 2006, Summer 2005, Summer 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2022, Summer 2019, Summer 2017, Summer 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 397 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POLISH 489 Internship in Polish, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of Polish in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Polish; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POLISH 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2017, Summer 2015, Summer 2014, Summer 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POLISH 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POLISH 597 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POLISH 597G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POLISH 697 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POLISH 697G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POLISH 699 Supervised Individual Reading**

1-6 cr. Undergraduate.

Advanced independent work under the supervision of a Slavic Lang faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Slavic Lang prog coord.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2020, Spring 2020, Spring 2012, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Political Science (POL SCI)

**POL SCI 103 Introduction to Political Science**

3 cr. Undergraduate.

An introduction to the systematic study of politics, including voting, parties, interest groups, executives, legislatures, courts, and political ideologies.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 104 Introduction to American Government and Politics**

3 cr. Undergraduate.

How the American political system works, with emphasis on the Constitution, elections, political parties, interest groups, Congress, the presidency, the courts, and national policy making.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 105 State Politics**

3 cr. Undergraduate.

Processes and functions of state governments and their relations with the national government and local governments; special emphasis on Wisconsin politics.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023, UWinteriM 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 106 Politics of the World's Nations**

3 cr. Undergraduate.

Introduction to political issues facing the governments of industrialized and developing nations, democratic and authoritarian, considering the similarities and differences between these nations and America.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 110 Sex and Power**

3 cr. Undergraduate.

Study of gender, sex, and sexuality as determined by law, power, and politics.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Fall 2019, Spring 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 150 Multicultural America: Minority Voting Rights and Representation**

3 cr. Undergraduate.

An introduction to minority voting rights, the Voting Rights Acts, and minority representation.

**Prerequisites:** none.

**Course Rules:** Cultures and Communities Prog course; req'd service learning component.

**General Education Requirements:** CD

**Last Taught:** Fall 2022, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 175 Introduction to International Relations**

3 cr. Undergraduate.

Introduction to international relations, including the major subfields.

Essential characteristics of the international system and the foreign policy objectives of states are discussed to give the beginning student a clearer view of world politics.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 193 First-Year Seminar.**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** SS

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 201 Introduction to Public Service**

3 cr. Undergraduate.

Broad introduction to public service via scholarly and experiential learning.

**Prerequisites:** none.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 203 Introduction to Political Science Research**

3 cr. Undergraduate.

An overview of quantitative political science research. The role of theory, research design, and measurement.

**Prerequisites:** one pol sci course.

**Course Rules:** Research methods course.

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, UWinteriM 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 210 American Public Policy**

3 cr. Undergraduate.

Introduction to substantive policy issues and forces which influence their progress. Emphasis upon major values within political conflicts and the gap between policy goals and program implementation.

**Prerequisites:** none.

**Course Rules:** American politics course.

**General Education Requirements:** SS

**Last Taught:** Fall 2021, Spring 2019, Fall 2015, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 213 Urban Government and Politics**

3 cr. Undergraduate.

The management, politics, and problems of city government.

**Prerequisites:** none.

**Course Rules:** American politics course.

**General Education Requirements:** SS

**Last Taught:** Fall 2020, Fall 2019, Spring 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 215 Ethnicity, Religion and Race in American Politics**

3 cr. Undergraduate.

Nationality, racial and religion-based groups in American domestic and foreign policy-making; significance of cultural pluralism as a factor in the American political experience.

**Prerequisites:** none.

**Course Rules:** American politics course.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2023, Summer 2022, Summer 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 216 Environmental Politics**

3 cr. Undergraduate.

Introductory course on the politics of environmental decisionmaking. Topics include the environmental movement, capitalism and the environment, climate change, and policymaking for environmental protection.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of Pol Sci 299 w/same topic.

**Last Taught:** Spring 2022, Spring 2021, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 243 Public Administration**

3 cr. Undergraduate.

The means used to implement political values with emphasis on problems of administration in modern government.

**Prerequisites:** none.

**Course Rules:** Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 250 Law and Society**

3 cr. Undergraduate.

The law and the operation of the legal system as they relate to contemporary social issues.

**Prerequisites:** none.

**Course Rules:** American politics course.

**Last Taught:** Summer 2023, Fall 2022, Summer 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 255 Great Issues of Politics**

3 cr. Undergraduate.

Major problems in political thought, such as war and peace, justice and power, liberty and authority, identity and alienation, and stability and change.

**Prerequisites:** none.

**Course Rules:** Political theory course.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 281 Classics of Political Theory**

3 cr. Undergraduate.

Power, authority, liberty, justice, law, and other basic ideas of politics and government as treated in the classic works of political thought.

**Prerequisites:** soph st.**Course Rules:** Political theory course.**Last Taught:** Spring 2023, Spring 2020, Fall 2012, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 284 Introduction to ULEAP**

1-3 cr. Undergraduate.

Undergraduate Laboratory for Empirical Analysis of Politics (ULEAP).

Hands-on research lab for recurring ULEAP projects. Students assist faculty with research projects, develop quantitative research skills.

**Prerequisites:** cons instr.**Course Rules:** Requires 40 hrs of supervised research per cr. May be retaken to 9 cr max.**Last Taught:** Spring 2012, Fall 2011, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance into UROP; prior or conc reg in UROP seminar.**Course Rules:** One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP Apprenticeship courses. Not open to jrs & srs.**Last Taught:** Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2010, Spring 2010, Fall 2009, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 300 Western European Politics**

3 cr. Undergraduate.

Survey of government and politics in Western Europe; comparative perspectives on states, citizens, and public policies; current challenges.

**Prerequisites:** jr st or Pol Sci 106.**Course Rules:** Comparative politics course.**Last Taught:** Spring 2017, Fall 2011, Fall 2010, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 301 British Politics**

3 cr. Undergraduate/Graduate.

Political process in Great Britain in the context of contemporary national setting; emphasis on party system and constitutional order.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Fall 2013, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 301G British Politics**

3 cr. Undergraduate/Graduate.

Political process in Great Britain in the context of contemporary national setting; emphasis on party system and constitutional order.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Fall 2013, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 302 Politics of Eastern Europe**

3 cr. Undergraduate/Graduate.

Evolution of modern nation-state systems in Eastern Europe; interactions among nationalism, communism, and democracy in the countries of the region since 1945.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Spring 2011, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 302G Politics of Eastern Europe**

3 cr. Undergraduate/Graduate.

Evolution of modern nation-state systems in Eastern Europe; interactions among nationalism, communism, and democracy in the countries of the region since 1945.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Spring 2011, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 310 Russian and Post-Soviet Politics**

3 cr. Undergraduate/Graduate.

Domestic politics of Russia and the other states of the former Soviet Union; special emphasis is placed on transitions to and from authoritarianism, political institutions, and market reforms.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Fall 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 310G Russian and Post-Soviet Politics**

3 cr. Undergraduate/Graduate.

Domestic politics of Russia and the other states of the former Soviet Union; special emphasis is placed on transitions to and from authoritarianism, political institutions, and market reforms.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Fall 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 312 The Politics of Authoritarian Regimes**

3 cr. Undergraduate/Graduate.

Comparison of modern authoritarian regimes. Emphasis is on their domestic politics and methods of rule.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Spring 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 312G The Politics of Authoritarian Regimes**

3 cr. Undergraduate/Graduate.

Comparison of modern authoritarian regimes. Emphasis is on their domestic politics and methods of rule.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Spring 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 314 Chinese Politics and Foreign Policy**

3 cr. Undergraduate.

Historical background. Communism and its reform: leadership and political change; economic policy; corruption; human rights; population; environment; Tibet and Xinjiang; foreign policy.

**Prerequisites:** jr st or one pol sci course.**Course Rules:** Comparative politics course.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 316 International Law**

3 cr. Undergraduate/Graduate.

Rules and principles of behavior which govern nations in their relations with one another, as illustrated in texts and cases.

**Prerequisites:** jr st.**Course Rules:** International politics course.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 316G International Law**

3 cr. Undergraduate/Graduate.

Rules and principles of behavior which govern nations in their relations with one another, as illustrated in texts and cases.

**Prerequisites:** jr st.**Course Rules:** International politics course.**Last Taught:** Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 320 Politics of Developing Countries**

3 cr. Undergraduate/Graduate.

Comparative analysis of political problems confronting developing countries.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 320G Politics of Developing Countries**

3 cr. Undergraduate/Graduate.

Comparative analysis of political problems confronting developing countries.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Spring 2014, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 321 Politics of Revolution in Developing Nations**

3 cr. Undergraduate/Graduate.

The theory and description of political revolutions and rapid political change in the twentieth century.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 321G Politics of Revolution in Developing Nations**

3 cr. Undergraduate/Graduate.

The theory and description of political revolutions and rapid political change in the twentieth century.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 325 Latin American Politics**

3 cr. Undergraduate/Graduate.

Analysis of contemporary governments in Latin America, with particular emphasis on the social way of life, the politics of economic organization and government in action.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 325G Latin American Politics**

3 cr. Undergraduate/Graduate.

Analysis of contemporary governments in Latin America, with particular emphasis on the social way of life, the politics of economic organization and government in action.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 326 Brazilian Politics and Society**

3 cr. Undergraduate.

Puzzles and complexities of governing Brazil in 20th and 21st centuries. Historical and institutional foundations of the Brazilian state; current political, economic, and social environment.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course. LACS 326 & Pol Sci 326 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2015, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 328 The Arab-Israeli Conflict**

3 cr. Undergraduate/Graduate.

Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.

**Prerequisites:** jr st.**Course Rules:** Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 328G The Arab-Israeli Conflict**

3 cr. Undergraduate/Graduate.

Competing views about the Arab-Israeli conflict, especially its Palestinian dimension. History and evolution of the conflict; current issues and possible solutions.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course. Jewish 328 & Pol Sci 328 are jointly offered; they count as repeats of one another. Counts as a repeat of Hebr St 238 with same topic.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 329 African Politics**

3 cr. Undergraduate/Graduate.

The process of political change in contemporary Africa, with emphasis on the problems of nationalism and nation-building.

**Prerequisites:** jr st; Pol Sci 106(R).

**Course Rules:** Comparative politics course.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 329G African Politics**

3 cr. Undergraduate/Graduate.

The process of political change in contemporary Africa, with emphasis on the problems of nationalism and nation-building.

**Prerequisites:** jr st; Pol Sci 106(R).

**Course Rules:** Comparative politics course.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 330 The Politics of International Economic Relations**

3 cr. Undergraduate/Graduate.

Politics of international trade, finance, and investment. Politics of industrial policy and economic development. Economic crisis and policy responses.

**Prerequisites:** jr st.

**Course Rules:** International politics course.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 330G The Politics of International Economic Relations**

3 cr. Undergraduate/Graduate.

Politics of international trade, finance, and investment. Politics of industrial policy and economic development. Economic crisis and policy responses.

**Prerequisites:** jr st.

**Course Rules:** International politics course.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 333 Seminar in Comparative Politics:**

3 cr. Undergraduate/Graduate.

Intensive study in selected aspects of comparative politics.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to 9 cr max. Enrollment limited to 15 students. Comparative politics course.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 333G Seminar in Comparative Politics:**

3 cr. Undergraduate/Graduate.

Intensive study in selected aspects of comparative politics.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to 9 cr max. Enrollment limited to 15 students. Comparative politics course.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 334 German Politics and the New Europe**

3 cr. Undergraduate/Graduate.

Development of the two German republics after 1945; domestic and European issues of a unified Germany.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course.

**Last Taught:** Spring 2013, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 334G German Politics and the New Europe**

3 cr. Undergraduate/Graduate.

Development of the two German republics after 1945; domestic and European issues of a unified Germany.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course.

**Last Taught:** Spring 2013, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 335 Comparative Political Systems**

3 cr. Undergraduate/Graduate.

Government and politics in various Western and developing countries, stressing common experience as well as differences conditioned by diverse circumstances.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 335G Comparative Political Systems**

3 cr. Undergraduate/Graduate.

Government and politics in various Western and developing countries, stressing common experience as well as differences conditioned by diverse circumstances.

**Prerequisites:** jr st.

**Course Rules:** Comparative politics course.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 337 International Organization and the United Nations**

3 cr. Undergraduate.

Institutions and politics. Collective security, peacekeeping, terrorism, and arms control. International legal tribunals and human rights. International trade and finance. Economic development.

**Prerequisites:** jr st or one pol sci course.

**Course Rules:** International politics course.

**Last Taught:** UWinterIM 2024, Summer 2023, UWinterIM 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 338 Seminar in International Relations:**

3 cr. Undergraduate/Graduate.

Intensive study in selected aspects of international relations. Add'l prereqs announced in Schedule of Classes each time course is offered.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to 6 cr max. International politics course.

**Last Taught:** Summer 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 338G Seminar in International Relations:**

3 cr. Undergraduate/Graduate.

Intensive study in selected aspects of international relations. Add'l prereqs announced in Schedule of Classes each time course is offered.

**Prerequisites:** junior standing.

**Course Rules:** May be retaken with change in topic to 6 cr max. International politics course.

**Last Taught:** Summer 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 339 European Integration**

3 cr. Undergraduate/Graduate.

Evolution of the European Union, its institutions, and key policy developments related to the single market, common currency, enlargement, and the democratic deficit.

**Prerequisites:** jr st.

**Course Rules:** Comparative or international politics course.

**Last Taught:** Fall 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 339G European Integration**

3 cr. Undergraduate/Graduate.

Evolution of the European Union, its institutions, and key policy developments related to the single market, common currency, enlargement, and the democratic deficit.

**Prerequisites:** jr st.

**Course Rules:** Comparative or international politics course.

**Last Taught:** Fall 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 340 Politics of Nuclear Weapons**

3 cr. Undergraduate/Graduate.

Survey of nuclear war issues, including the effects of nuclear weapons, defense against nuclear attack, arms control, nuclear weapons proliferation, and nuclear ethics.

**Prerequisites:** jr st; course in pol sci or related field recom.

**Course Rules:** International politics course.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 340G Politics of Nuclear Weapons**

3 cr. Undergraduate/Graduate.

Survey of nuclear war issues, including the effects of nuclear weapons, defense against nuclear attack, arms control, nuclear weapons proliferation, and nuclear ethics.

**Prerequisites:** jr st; course in pol sci or related field recom.

**Course Rules:** International politics course.

**Last Taught:** Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 341 Politics and Markets in Pacific-Rim Countries:**

3 cr. Undergraduate/Graduate.

Introduction to the political-economic relationships among Pacific-Rim countries.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max. Comparative politics course.

**Last Taught:** Fall 2013, Fall 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 341G Politics and Markets in Pacific-Rim Countries:**

3 cr. Undergraduate/Graduate.

Introduction to the political-economic relationships among Pacific-Rim countries.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max. Comparative politics course.

**Last Taught:** Fall 2013, Fall 1994.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 343 Asian International Relations**

3 cr. Undergraduate.

Analysis of recent relations of the major powers in East, Southeast, and South Asia, especially the problems of the smaller states and the role of the United States.

**Prerequisites:** jr st.

**Course Rules:** International politics course.

**Last Taught:** Spring 2020, Fall 2017, Fall 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 345 Korean Politics and Foreign Policy**

3 cr. Undergraduate.

Explores the changes in politics, economics, society and foreign policy in South Korea, which has rapidly moved from one of the poorest countries in the world to a thriving and important democracy.

**Prerequisites:** junior standing.

**Course Rules:** Counts as a repeat of POL SCI 338 with similar topic.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 346 U.S.-Latin American Relations**

3 cr. Undergraduate.

Historic and contemporary inter-American relations, including issues such as U.S.-Cuban relations, drug trafficking, trade integration, international finance, and migration.

**Prerequisites:** jr st.

**Course Rules:** International politics course.

**Last Taught:** Fall 2014, Fall 2010, Fall 2009, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 355 The Politics of Economic Inequality**

3 cr. Undergraduate.

The causes and political consequences of economic inequality.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 359 Problems of American Foreign Policy**

3 cr. Undergraduate/Graduate.

Analysis of problems confronting the United States in principal regions of the world, emphasizing the content and instrumentalities of recent policy, and considering alternative solutions.

**Prerequisites:** jr st.**Course Rules:** International politics course.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 359G Problems of American Foreign Policy**

3 cr. Undergraduate/Graduate.

Analysis of problems confronting the United States in principal regions of the world, emphasizing the content and instrumentalities of recent policy, and considering alternative solutions.

**Prerequisites:** jr st.**Course Rules:** International politics course.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 361 History of International Political Thought**

3 cr. Undergraduate/Graduate.

History of international political thought. Statist and internationalist theories of sovereignty, war, intervention, and international law.

**Prerequisites:** jr st.**Course Rules:** Political theory or international politics course.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 361G History of International Political Thought**

3 cr. Undergraduate/Graduate.

History of international political thought. Statist and internationalist theories of sovereignty, war, intervention, and international law.

**Prerequisites:** jr st.**Course Rules:** Political theory or international politics course.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 365 Theories and Methods in International Politics**

3 cr. Undergraduate/Graduate.

Empirical, theoretical, and quantitative analyses of international relations.

**Prerequisites:** jr st.**Course Rules:** International politics course.**Last Taught:** Spring 2023, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 365G Theories and Methods in International Politics**

3 cr. Undergraduate/Graduate.

Empirical, theoretical, and quantitative analyses of international relations.

**Prerequisites:** jr st.**Course Rules:** International politics course.**Last Taught:** Spring 2023, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 368 Gender and Politics in Developing Nations**

3 cr. Undergraduate/Graduate.

Gender and politics in Latin America, East/South Asia, the Middle East, integrating works from political science, feminist theory, development studies, public health, women's studies.

**Prerequisites:** jr st.**Course Rules:** Counts as a repeat of Pol Sci 333 w/same subtitle.

Enrollment limited to 15 students. Comparative politics course.

**Last Taught:** Spring 2010, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 368G Gender and Politics in Developing Nations**

3 cr. Undergraduate/Graduate.

Gender and politics in Latin America, East/South Asia, the Middle East, integrating works from political science, feminist theory, development studies, public health, women's studies.

**Prerequisites:** jr st.**Course Rules:** Counts as a repeat of Pol Sci 333 w/same subtitle.

Enrollment limited to 15 students. Comparative politics course.

**Last Taught:** Spring 2010, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 370 International Conflict**

3 cr. Undergraduate/Graduate.

Theoretical and quantitative studies of international conflict and war. Includes individual, national, and systemic approaches.

**Prerequisites:** jr st.**Course Rules:** International politics course.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 370G International Conflict**

3 cr. Undergraduate/Graduate.

Theoretical and quantitative studies of international conflict and war. Includes individual, national, and systemic approaches.

**Prerequisites:** jr st.**Course Rules:** International politics course.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 371 Nationalism and Ethnic Conflict**

3 cr. Undergraduate.

Origins of nations. Nationalism and the decline of empires. Origins and strategies of ethnic wars. How ethnic wars end. International intervention. Case studies, such as Arab-Israeli and India-Pakistan conflicts. Comparative or international politics course. Prereq: jr st or one pol sci course.

**General Education Requirements:** SS**Last Taught:** Spring 2022, UWinterIM 2021, UWinterIM 2020, UWinterIM 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 372 Poverty and Politics:**

3 cr. Undergraduate.

Causes and political consequences of poverty and social inequality worldwide.

**Prerequisites:** jr st.**Course Rules:** Counts as repeat of Pol Sci 499 w/same topic. May be retaken w/chg in topic to 6 cr max.**Last Taught:** Fall 2016, Summer 2016, Summer 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**POL SCI 374 Health, Wealth, and Democracy**

3 cr. Undergraduate.

The relationship between the democracies and wealth, and health care outcomes.

**Prerequisites:** The relationship between the democracies and wealth, and health care outcomes.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 377 Elections in the Modern World**

3 cr. Undergraduate.

Role of elections in contemporary political regimes; representation, accountability, electoral institutions, elections in new democracies, and electoral authoritarian regimes.

**Prerequisites:** jr st.

**Last Taught:** Spring 2022, Fall 2020, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 379 Morality, Conflict and War**

3 cr. Undergraduate.

Examines the conditions that make for war and peace in world politics, and considers relevant moral and ethical arguments about war.

**Prerequisites:** jr st

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 380 Honors Seminar:**

3 cr. Undergraduate.

Selective topics in the study of politics.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**Course Rules:** May be retaken w/chg in topic to 9 cr max. Political theory course.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Fall 2020, Spring 2017, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 381 The Development of Western Political Thought**

3 cr. Undergraduate/Graduate.

Examination of European theories of politics in their imagined continuity from Greek & Roman antiquity to the present; how theorists argued for representational democracy, individual liberties, and legal transparency while justifying war, colonialism and genocide.

**Prerequisites:** junior standing and a grade of C or better in ENGLISH 102(P) or score level 4 on EPT.

**Course Rules:** Political theory course.

**Last Taught:** Fall 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 381G The Development of Western Political Thought**

3 cr. Undergraduate/Graduate.

Examination of European theories of politics in their imagined continuity from Greek & Roman antiquity to the present; how theorists argued for representational democracy, individual liberties, and legal transparency while justifying war, colonialism and genocide.

**Prerequisites:** junior standing and a grade of C or better in ENGLISH 102(P) or score level 4 on EPT.

**Course Rules:** Political theory course.

**Last Taught:** Fall 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 382 Modern Political Thought**

3 cr. Undergraduate/Graduate.

European and American political theory from the 17th to the 19th century, with a focus on the emergence of the nation-state and related concepts (e.g., authority, democracy, conservatism, liberalism, national economies, war, and patriotism).

**Prerequisites:** junior standing.

**Course Rules:** Political theory course.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 382G Modern Political Thought**

3 cr. Undergraduate/Graduate.

European and American political theory from the 17th to the 19th century, with a focus on the emergence of the nation-state and related concepts (e.g., authority, democracy, conservatism, liberalism, national economies, war, and patriotism).

**Prerequisites:** junior standing.

**Course Rules:** Political theory course.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 383 Environmental Political Theory**

3 cr. Undergraduate.

Environmental political theory from a global perspective, emphasizing the interlinked nature of security and sustainability.

**Prerequisites:** junior standing.

**Course Rules:** GLOBAL 383 and POL SCI 383 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 384 The Philosophy of Law**

3 cr. Undergraduate/Graduate.

The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.

**Prerequisites:** jr st; 3 cr in philos or previous course in political theory or law studies recom.

**Course Rules:** Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another. Political theory course.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 384G The Philosophy of Law**

3 cr. Undergraduate/Graduate.

The idea of law and its relationship to morality. Issues of legal obligation, rights, responsibility, and punishment.

**Prerequisites:** jr st; 3 cr in philos or previous course in political theory or law studies recom.

**Course Rules:** Philos 384 & Pol Sci 384 are jointly offered; they count as repeats of one another. Political theory course.

**Last Taught:** Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 385 American Political Thought**

3 cr. Undergraduate/Graduate.

Survey of main currents of American political thought from colonial times to the present.

**Prerequisites:** jr st.

**Course Rules:** Political theory course.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 385G American Political Thought**

3 cr. Undergraduate/Graduate.

Survey of main currents of American political thought from colonial times to the present.

**Prerequisites:** jr st.

**Course Rules:** Political theory course.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 386 Contemporary Political Theory**

3 cr. Undergraduate/Graduate.

Survey of current work in different branches of political theory, including formal, analytical, and critical theory.

**Prerequisites:** jr st.

**Course Rules:** Political theory course.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 386G Contemporary Political Theory**

3 cr. Undergraduate/Graduate.

Survey of current work in different branches of political theory, including formal, analytical, and critical theory.

**Prerequisites:** jr st.

**Course Rules:** Political theory course.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 387 Topics in American Politics:**

3 cr. Undergraduate/Graduate.

Intensive study in selected aspects of American politics.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max. American politics course.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 387G Topics in American Politics:**

3 cr. Undergraduate/Graduate.

Intensive study in selected aspects of American politics.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max. American politics course.

**Last Taught:** Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 388 Latino Politics**

3 cr. Undergraduate.

Contemporary Latino politics in the U.S.; demographic analysis; interplay between political incorporation and political institutional responses; Chicano movement, immigration policies, public opinion, voting behavior, representation.

**Prerequisites:** jr st.

**Course Rules:** Latino 388 & Pol Sci 388 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 389 Politics and Philosophy:**

3 cr. Undergraduate/Graduate.

Ideas and methods in recent political theory, including the history of political thought, analytical political philosophy, and critical theory.

**Prerequisites:** jr st; one course in political theory.

**Course Rules:** Political theory course. May be retaken w/chg in topic to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 389G Politics and Philosophy:**

3 cr. Undergraduate/Graduate.

Ideas and methods in recent political theory, including the history of political thought, analytical political philosophy, and critical theory.

**Prerequisites:** jr st; one course in political theory.

**Course Rules:** Political theory course. May be retaken w/chg in topic to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 390 Political Data Analysis**

3 cr. Undergraduate/Graduate.

Research design, measurement, and techniques of political data analysis.

**Prerequisites:** jr st; satisfaction of GER Quantitative Literacy Part A req.

**Course Rules:** Research methods course.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 390G Political Data Analysis**

3 cr. Undergraduate/Graduate.

Research design, measurement, and techniques of political data analysis.

**Prerequisites:** jr st; satisfaction of GER Quantitative Literacy Part A req.

**Course Rules:** Research methods course.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 391 Current Crises and Events in International Relations**

3 cr. Undergraduate.

Examines several current crises or challenging international events--

defined as unstable, pressing international situations in which significant change appears imminent.

**Prerequisites:** jr st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 392 Survey Research**

3 cr. Undergraduate/Graduate.

Theory and practice of survey techniques. Planning, design, sampling, types of data, questionnaire construction, interviewing, field operation, and coding examples in a variety of fields.

**Prerequisites:** jr st.

**Course Rules:** Research methods course.

**Last Taught:** Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 392G Survey Research**

3 cr. Undergraduate/Graduate.

Theory and practice of survey techniques. Planning, design, sampling, types of data, questionnaire construction, interviewing, field operation, and coding examples in a variety of fields.

**Prerequisites:** jr st.**Course Rules:** Research methods course.**Last Taught:** Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 398 Cyberpolitics**

3 cr. Undergraduate.

Nature and implications of cyberpolitics, particularly international. Topics include our cyber world; cyberpower; resistance against and efforts to control cyberspace; cyberspace governance. Special thematic focuses: data, artificial intelligence, cybersecurity, cybercrime, election interference, cyberwarfare.

**Prerequisites:** junior standing and one social science course.**Course Rules:** May not be retaken for degree credit.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 405 State Government:**

3 cr. Undergraduate/Graduate.

Selected topics in state government and politics with special emphasis on Wisconsin.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max. American politics course.**Last Taught:** Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 405G State Government:**

3 cr. Undergraduate/Graduate.

Selected topics in state government and politics with special emphasis on Wisconsin.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max. American politics course.**Last Taught:** Fall 2013, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 408 The American Presidency**

3 cr. Undergraduate/Graduate.

Study of the office and powers of the president, with an analysis of his major roles as chief administrator, legislative leader, political leader, initiator of foreign policies, Commander-in-Chief and head of state.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 408G The American Presidency**

3 cr. Undergraduate/Graduate.

Study of the office and powers of the president, with an analysis of his major roles as chief administrator, legislative leader, political leader, initiator of foreign policies, Commander-in-Chief and head of state.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 410 Law Through Popular Culture**

3 cr. Undergraduate/Graduate.

Popular media representation of law and courts and attempts to ascertain the impact of those representations on public attitudes about courts, judges, and attorneys.

**Prerequisites:** junior standing.**Course Rules:** Counts as repeat of POL SCI 471 with equivalent topic.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 410G Law Through Popular Culture**

3 cr. Undergraduate/Graduate.

Popular media representation of law and courts and attempts to ascertain the impact of those representations on public attitudes about courts, judges, and attorneys.

**Prerequisites:** junior standing.**Course Rules:** Counts as repeat of POL SCI 471 with equivalent topic.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 411 Constitutional Law: Government Powers and Federalism**

3 cr. Undergraduate.

Constitutional interpretation, with emphasis on separation of powers, federalism, and property.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 412 Constitutional Law: Civil Rights and Liberties**

3 cr. Undergraduate/Graduate.

Cases in civil rights and liberties in such areas as equal protection, due process, and First Amendment freedoms.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 412G Constitutional Law: Civil Rights and Liberties**

3 cr. Undergraduate/Graduate.

Cases in civil rights and liberties in such areas as equal protection, due process, and First Amendment freedoms.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 415 The Politics of Race, Ethnicity and Immigration**

3 cr. Undergraduate.

Racial/ethnic histories in the US; political difference and commonality; influence of immigration on political behavior and attitudes.

**Prerequisites:** jr st.**General Education Requirements:** CD**Last Taught:** Spring 2021, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 416 Judicial Politics**

3 cr. Undergraduate/Graduate.

Trial and appellate court structure; litigation in federal and state contexts; key actors in the judicial process, including litigants, lawyers, judges, and juries.

**Prerequisites:** junior standing.

**Course Rules:** American politics course.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 416G Judicial Politics**

3 cr. Undergraduate/Graduate.

Trial and appellate court structure; litigation in federal and state contexts; key actors in the judicial process, including litigants, lawyers, judges, and juries.

**Prerequisites:** junior standing.

**Course Rules:** American politics course.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 417 The Supreme Court**

3 cr. Undergraduate/Graduate.

Behavior of U.S. Supreme Court justices and other appellate judges and courts within the judicial and political systems.

**Prerequisites:** jr st.

**Course Rules:** American politics course.

**Last Taught:** Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 417G The Supreme Court**

3 cr. Undergraduate/Graduate.

Behavior of U.S. Supreme Court justices and other appellate judges and courts within the judicial and political systems.

**Prerequisites:** jr st.

**Course Rules:** American politics course.

**Last Taught:** Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 419 Constitutional Interpretation**

3 cr. Undergraduate/Graduate.

Analysis of contemporary interpretive themes, including judicial activism, the living Constitution, and critical theories of law.

**Prerequisites:** Pol Sci 411(P) or 412(P).

**Course Rules:** American politics course.

**Last Taught:** Fall 2000, Spring 1997.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 419G Constitutional Interpretation**

3 cr. Undergraduate/Graduate.

Analysis of contemporary interpretive themes, including judicial activism, the living Constitution, and critical theories of law.

**Prerequisites:** Pol Sci 411(P) or 412(P).

**Course Rules:** American politics course.

**Last Taught:** Fall 2000, Spring 1997.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 421 Party Politics in America**

3 cr. Undergraduate/Graduate.

The role of political parties in the nominating process, campaigns, fund raising, voter choice, and the governing processes of Congress and the presidency.

**Prerequisites:** jr st; Pol Sci 103(P) or 104(P).

**Course Rules:** American politics course.

**Last Taught:** Spring 2021, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 421G Party Politics in America**

3 cr. Undergraduate/Graduate.

The role of political parties in the nominating process, campaigns, fund raising, voter choice, and the governing processes of Congress and the presidency.

**Prerequisites:** jr st; Pol Sci 103(P) or 104(P).

**Course Rules:** American politics course.

**Last Taught:** Spring 2021, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 423 Conduct of American Foreign Affairs**

3 cr. Undergraduate/Graduate.

Descriptive analysis of the way American foreign policy is formulated and carried out by federal agencies.

**Prerequisites:** jr st.

**Course Rules:** International Politics course.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 423G Conduct of American Foreign Affairs**

3 cr. Undergraduate/Graduate.

Descriptive analysis of the way American foreign policy is formulated and carried out by federal agencies.

**Prerequisites:** jr st.

**Course Rules:** International Politics course.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 425 Women in Politics**

3 cr. Undergraduate.

Political attitudes and behavior of women; socialization and selection of women for political offices; and women's issues in politics.

**Prerequisites:** jr st.

**Course Rules:** American politics course.

**Last Taught:** Spring 2023, Spring 2021, Spring 2011, Fall 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 426 Congressional Politics**

3 cr. Undergraduate/Graduate.

The role of Congress in shaping public policy, with emphasis on the impact of elections, lawmaking procedures, congressional committees, political parties, interest groups, and presidents.

**Prerequisites:** junior standing.

**Course Rules:** American politics course.

**Last Taught:** Fall 2023, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 426G Congressional Politics**

3 cr. Undergraduate/Graduate.

The role of Congress in shaping public policy, with emphasis on the impact of elections, lawmaking procedures, congressional committees, political parties, interest groups, and presidents.

**Prerequisites:** junior standing.**Course Rules:** American politics course.**Last Taught:** Fall 2023, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 444 Politics and the Bureaucracy**

3 cr. Undergraduate/Graduate.

The role of the bureaucracy in policymaking. Political resources of bureaucracy, its ability to influence policy outcomes. Political controls on bureaucracy, and proposals for reform.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Fall 2002, Fall 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 444G Politics and the Bureaucracy**

3 cr. Undergraduate/Graduate.

The role of the bureaucracy in policymaking. Political resources of bureaucracy, its ability to influence policy outcomes. Political controls on bureaucracy, and proposals for reform.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Fall 2002, Fall 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 450 Urban Political Problems**

3 cr. Undergraduate/Graduate.

Reading and analysis of specific urban problems and governmental responses.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Summer 2007, Summer 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 450G Urban Political Problems**

3 cr. Undergraduate/Graduate.

Reading and analysis of specific urban problems and governmental responses.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Summer 2007, Summer 2006.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 452 Administrative Law**

3 cr. Undergraduate/Graduate.

An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory, investigatory, and enforcement activities of administrative agencies.

**Prerequisites:** jr st.**Course Rules:** American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 452G Administrative Law**

3 cr. Undergraduate/Graduate.

An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory, investigatory, and enforcement activities of administrative agencies.

**Prerequisites:** jr st.**Course Rules:** American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 464 Sex, Gender, and the Law**

3 cr. Undergraduate.

Topics in federal and state law pertaining to women, gender, and feminism, such as reproductive rights, domestic violence, and pay equity.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Spring 2023, Spring 2022, Summer 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 467 Elections and Voting Behavior**

3 cr. Undergraduate/Graduate.

Psychological and social components of voting behavior, current electoral trends, and role of voters in the governing process.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Fall 2020, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 467G Elections and Voting Behavior**

3 cr. Undergraduate/Graduate.

Psychological and social components of voting behavior, current electoral trends, and role of voters in the governing process.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Fall 2020, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 471 Problems in Law Studies:**

3 cr. Undergraduate/Graduate.

Discussion of selected problems in contemporary law and politics, such as civil rights movements or law and sexuality.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max. American politics course.**Last Taught:** Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 471G Problems in Law Studies:**

3 cr. Undergraduate/Graduate.

Discussion of selected problems in contemporary law and politics, such as civil rights movements or law and sexuality.

**Prerequisites:** jr st.**Course Rules:** May be retaken w/chg in topic to 6 cr max. American politics course.**Last Taught:** Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 473 Public Opinion**

3 cr. Undergraduate/Graduate.

Formation of opinions within and among political publics; role of public opinion in the development and practice of governmental policy.

**Prerequisites:** jr st.**Last Taught:** Spring 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 473G Public Opinion**

3 cr. Undergraduate/Graduate.

Formation of opinions within and among political publics; role of public opinion in the development and practice of governmental policy.

**Prerequisites:** jr st.**Last Taught:** Spring 2013, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 475 Political Psychology**

3 cr. Undergraduate.

Examination of the psychological origins of citizens' political beliefs and action. An overview of theories and methods in the field of political psychology.

**Prerequisites:** jr st.**Course Rules:** American politics course.**Last Taught:** Fall 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 489 Internship in Political Science**

1-6 cr. Undergraduate.

Application of advanced principles in political science in a governmental or political setting.

**Prerequisites:** jr st; 3.0 GPA; cons supervising faculty member.**Course Rules:** One cr earned for academic work related to each 40 hrs of internship work. May be retaken to 6 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2013, Fall 2010, Spring 2010, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 500 Capstone Course in Political Science**

3 cr. Undergraduate.

Readings and discussions about fundamental political science problems; directed research project tailored to each student's special interests.

**Prerequisites:** sr st; declared pol sci major; Pol Sci 203(P), 390(P), or 392(P).**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 678 Advanced Undergraduate Laboratory for the Empirical Analysis of Politics**

1-3 cr. Undergraduate.

Advanced students enhance their research skills by assisting faculty members on political science research projects in collaboration with other students.

**Prerequisites:** jr st; cons instr.**Course Rules:** Requires 40 hrs of supervised research per cr. May be retaken to 9 cr max.**Last Taught:** Spring 2012, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 699 Independent Reading**

1-6 cr. Undergraduate.

Students with superior grade-point averages and special aptitudes may be given permission to earn up to 6 cr toward the major by writing a thesis or doing directed research or reading. See Advanced Independent Study for further information. Consult the Political Science Chair.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 700 Scope and Methods of Political Science**

3 cr. Graduate.

Critical examination of the normative and empirical methodologies of political science.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 701 Techniques of Political Science Research**

3 cr. Graduate.

Introduction to basic techniques of collecting, coding, processing, analyzing, and presenting political data.

**Prerequisites:** grad st; one undergrad stats course or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 702 Advanced Techniques of Political Science Research**

3 cr. Graduate.

Advanced course in quantitative analysis stressing the application of econometric techniques to the study of politics.

**Prerequisites:** grad st; Pol Sci 701(P).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 711 Current Topics in Political Science:**

1-3 cr. Graduate.

This course will address a specific topic or methodological approach of general disciplinary importance.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic & cons advisor & instr to 6 cr max.

**Last Taught:** Fall 2023, Fall 2022, Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 715 Introduction to Comparative Politics I**

3 cr. Graduate.

First part of a two-semester introductory seminar in comparative politics, emphasizing the logic of comparison and introducing broad themes in the subfield.

**Prerequisites:** grad st

**Last Taught:** Fall 2022, Fall 2020, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 716 Intro to Comparatv Politics II**

3 cr. Graduate.

The second course in a graduate introduction to comparative politics. Foundation for students considering further work in comparative politics; emphasis on empirical research literature.

**Prerequisites:** grad st; Pol Sci 715(P) or cons instr

**Last Taught:** Fall 2021, Spring 2013, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 720 Theoretical and Methodological Issues of Comparative Politics**

3 cr. Graduate.

Seminar on theory construction, research design, and the logic of comparative social inquiry.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Fall 2020, Fall 2007, Fall 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 725 Judicial Politics and Behavior**

3 cr. Graduate.

Readings in the field of judicial politics and behavior, with particular attention to decision making in collegial courts and to scientific methods of analysis.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022, Fall 2017, Fall 2013, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 727 Seminar in Constitutional Law**

3 cr. Graduate.

Major trends in constitutional case law and in critical analysis of the role of the court in american democracy.

**Prerequisites:** grad st; cons instr.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 749 Seminar in American Political Institutions**

3 cr. Graduate.

Overview of political institutions including executives, legislatures, bureaucracies, courts, interest groups and others and the role they play in the political and policy process.

**Prerequisites:** grad st.

**Last Taught:** Spring 2022, Fall 2019, Fall 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 750 Seminar in the Study of American Political Behavior**

3 cr. Graduate.

Readings and research on a broad range of topics related to political behavior. Concentration on the political science literature on mass political behavior with some attention to the behavior of political elites.

**Prerequisites:** grad st.

**Last Taught:** Fall 2021, Fall 2018, Fall 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 751 Seminar in Public Policy Formation**

3 cr. Graduate.

Nature and consequences of constraints upon policy-makers in political institutions.

**Prerequisites:** grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 769 Analyzing and Evaluating Public Policies and Programs**

3 cr. Graduate.

Examination of methods, including cost-benefit analysis and decision analysis, that aid policy makers and administrators in understanding and assessing public and nonprofit sector policies and programs.

**Prerequisites:** grad st.

**Course Rules:** Pol Sci 769 & Pub Adm 769 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 801 Proseminar in Political Theory**

3 cr. Graduate.

Political theory for graduate students in any field, based on historical and contemporary texts that illustrate different understandings of politics and political theory.

**Prerequisites:** grad st

**Last Taught:** Spring 2020, Fall 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 814 Major Political Theorists:**

3 cr. Graduate.

Consideration of selected political theorists, periods, or traditions. Attention given to issues of textual interpretation, historical context, and conceptual analysis.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2021, Spring 2014, Spring 1990.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 815 Problems in Political Theory:**

3 cr. Graduate.

Selected concepts and controversies in the historical and contemporary literature of political theory, such as authority, obligation, equality, justice and the explanation of human conduct.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Spring 2019, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 816 Seminar in Positive Political Theory:**

3 cr. Graduate.

Selected topics in rationality-based approaches to the study of politics.

**Prerequisites:** grad st; Pol Sci 701(817)(P) & 875(P).

**Course Rules:** Retakable w/chg in topic to 6 cr max.

**Last Taught:** Fall 2011, Fall 2009, Fall 2007, Fall 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**POL SCI 817 Feminist Theory and Politics**

3 cr. Graduate.

Examination and analysis of historical and theoretical aspects of feminist theory and politics including liberal, cultural, radical, postmodern, and queer political theory.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 818 Theories of International Political Economy**

3 cr. Graduate.

Analysis of major political theories of international economic relations. Examine international political economy issues in industrial developing, and communist countries.

**Prerequisites:** grad st; intro courses in Econ & Intlrel.**Last Taught:** Fall 2023, Spring 2021, Fall 2018, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 855 Comparative Urban Politics**

3 cr. Graduate.

Examination of critical roles, structures, and processes of urban politics in different cultural settings. Selected to facilitate comparisons between the urban political process in developed and underdeveloped nations.

**Prerequisites:** second semester grad student.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirements.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2020, Summer 2017, Fall 2012, Summer 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 913 Seminar in Urban Political Process**

3 cr. Graduate.

Analysis of the forces and processes that shape urban political life, with particular emphasis on patterns of government, political culture, power structures, and civic participation in urban and metropolitan communities.

**Prerequisites:** grad st.**Course Rules:** Pol Sci 913 & Urb Std 913 are jointly-offered; they count as repeats of one another.**Last Taught:** Spring 2023, Fall 2019, Spring 2016, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 925 Applied Bayesian Modeling for the Social Sciences**

3 cr. Graduate.

Theoretical foundations of Bayesian in comparison to Frequentist inference as well as applications of MCMC simulation to GLMs, hierarchical, time-series and measurement models.

**Prerequisites:** grad st; Pol Sci 935(P) or equiv.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 926 Seminar in the Legislative Process**

3 cr. Graduate.

Analysis of the legislative process and the role of the legislature in the political system and research in legislative behavior.

**Prerequisites:** grad st.**Last Taught:** Spring 2018, Spring 2012, Fall 2010, Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 929 Seminar in Voting Behavior**

3 cr. Graduate.

Voter decision making within and between elections.

**Prerequisites:** grad st.**Last Taught:** Spring 2021, Spring 2017, Fall 2011, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 935 Seminar in Advanced Political Science Methodology**

3 cr. Graduate.

An advanced seminar in selected topics on political science methodology.

**Prerequisites:** grad st; Pol Sci 701(817)(P).**Last Taught:** Fall 2022, Fall 2020, Spring 2015, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 936 Applied Bayesian Modeling for the Social Sciences**

3 cr. Graduate.

Theoretical foundations of Bayesian in comparison to Frequentist inference as well as applications of MCMC simulation to GLMs, hierarchical, time-series and measurement models.

**Prerequisites:** grad st; Pol Sci 935(P) or equiv.**Last Taught:** Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 950 Seminar in Comparative Politics: Western Nations**

3 cr. Graduate.

**Prerequisites:** grad st.**Last Taught:** Fall 2005, Spring 2002, Fall 1999, Spring 1998.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 952 The Politics of Developing Nations:**

3 cr. Graduate.

Variable content course.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2020, Spring 2018, Spring 2016, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 953 Seminar in American Foreign Policy**

3 cr. Graduate.

Analysis-in-depth of selected issues in the formulation and execution of American foreign policy, emphasizing recent problems, changes in world conditions, and methods of studying American policy.

**Prerequisites:** grad st.**Last Taught:** Spring 2022, Spring 2019, Spring 2016, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 956 Political Culture and Behavior: Industrial Nations**

3 cr. Graduate.

Political culture and mass political behavior in industrialized societies, including theories of ideology, multiculturalism, and political parties. A data-based paper is required.

**Prerequisites:** grad st; Pol Sci 701(817)(P) or equiv prep in statistics.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 960 International Conflict**

3 cr. Graduate.

Examines positive theories and quantitative research pertaining to causes and resolution of international conflict.

**Prerequisites:** grad st.**Last Taught:** Fall 2021, Spring 2018, Fall 2015, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**POL SCI 961 International Political Theory**

3 cr. Graduate.

The study of the moral and political philosophy of international relations.

**Prerequisites:** grad st.**Last Taught:** Fall 2004, Fall 2002, Spring 2000, Fall 1995.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 962 Ethnic Conflict**

3 cr. Graduate.

Origins, strategies, duration, and termination of ethnic conflicts; international intervention.

**Prerequisites:** grad st**Last Taught:** Spring 2023, Fall 2019, Spring 2017, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 963 Seminar in Judicial Process and Behavior**

3 cr. Graduate.

**Prerequisites:** grad st.**Last Taught:** Spring 2012, Spring 2011, Fall 1993, Spring 1991.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 964 Seminar in Constitutional Politics**

3 cr. Graduate.

Various approaches to the study of constitutional politics, including law as ideology, noninterpretivism, originalism, and departmentalism.

**Prerequisites:** grad st; Pol Sci 727(P).**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 972 Interest Groups and Public Policy**

3 cr. Graduate.

Research seminar in the formal and informal role of interest groups in policy development enactment, and administration access and tactics of political pressure, analysis of private and public power relationships.

**Prerequisites:** grad st.**Last Taught:** Fall 2007, Fall 2005, Fall 2003, Spring 2002.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 973 Political Parties**

3 cr. Graduate.

Selection of problems and design of research on the organization and processes of political parties.

**Prerequisites:** grad st.**Last Taught:** Spring 2011, Spring 2009, Spring 2007, Spring 1987.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 974 Seminar in Politics and Public Policy**

3 cr. Graduate.

Research in the formulation and execution of public policy in a democratic society.

**Prerequisites:** grad st.**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 975 Comparative Authoritarianism**

3 cr. Graduate.

Domestic and international politics of authoritarian regimes; methods of rule, regime survival strategies, and political economy.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2021, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 976 Seminar in Comparative Public Policy:**

3 cr. Graduate.

Major theories and methods in comparative public policy relevant to specific areas of the world. Area focus varies from semester to semester.

**Prerequisites:** grad st.**Course Rules:** Retakable w/ chg in topic to 6 cr max.**Last Taught:** Spring 2022, Spring 2019, Spring 2015, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 990 Research and Thesis**

1-3 cr. Graduate.

**Prerequisites:** grad st; cons instr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**POL SCI 999 Independent Work**

1-3 cr. Graduate.

Individual work directed by a member of the graduate faculty.

**Prerequisites:** grad st & cons instr.**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Portuguese (PORTUGS)

**PORTUGS 103 First-Semester Portuguese**

4 cr. Undergraduate.

Beginner-level Portuguese; listening, speaking, reading, writing, and grammar.

**Prerequisites:** none.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PORTUGS 104 Second-Semester Portuguese**

4 cr. Undergraduate.

Continuation of Portugs 103.

**Prerequisites:** Portugs 103(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PORTUGS 110 Accelerated Portuguese I**

3 cr. Undergraduate.

Accelerated beginner-level course designed to enable students to develop comprehensive listening, speaking, reading, and writing skills in Portuguese.

**Prerequisites:** none.**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PORTUGS 197 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/change in topic.**Last Taught:** Spring 2022, Spring 2020, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult department chair.

**Prerequisites:** 2.50 GPA, consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Spring 2022, Spring 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 202 Portuguese for Spanish Speakers**

3 cr. Undergraduate.

Content of PORTUGS 103 and PORTUGS 104 at a fast pace in one semester, building on students' knowledge of Spanish; similarities and differences between Spanish and Portuguese.

**Prerequisites:** SPANISH 204(P), Level 5 on the UW System Spanish Placement Test, or permission of instructor.

**Course Rules:** Students may not receive credit for PORTUGS 202 if they have taken PORTUGS 110 or PORTUGS 104.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 203 Third-Semester Portuguese**

3 cr. Undergraduate.

Intermediate-level continuation of Portugs 104. Development of listening, speaking, reading, and writing; review of first-year grammatical concepts. Readings in modern literary and non-literary texts.

**Prerequisites:** Portugs 104(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 204 Fourth-Semester Portuguese**

3 cr. Undergraduate.

Intermediate-level continuation of Portugs 203. Development of listening, speaking, reading, and writing; review of first-year grammatical concepts. Readings in modern literary and non-literary texts.

**Prerequisites:** Portugs 203(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (11 retro cr).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 225 Understanding Brazil:**

3 cr. Undergraduate.

Topics in Brazilian culture and society.

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2018, Spring 2015, Spring 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 289 Internship in Portuguese, Lower Division**

1-3 cr. Undergraduate.

Application of basic principles of Portuguese in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Portugs; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 3 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2022, Spring 2020, Spring 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2013, Fall 2012, Spring 2012, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 310 Advanced Composition and Conversation**

3 cr. Undergraduate.

Designed to develop students' oral and writing skills.

**Prerequisites:** Portugs 204(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

**Last Taught:** Fall 2023, Fall 2022, Fall 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 313 Advanced Speaking and Listening**

3 cr. Undergraduate.

Practice in speaking and listening for advanced students through discussion of Luso-Brazilian audiovisual and/or multi-media cultural tools; follow-up reading, writing, and grammar activities.

**Prerequisites:** Portugs 204(P) or equiv.

**Course Rules:** Generates L&S credit for demonstrated equivalent preparation (14 retro crs).

**Last Taught:** Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 360 Luso-Brazilian Culture:**

3 cr. Undergraduate.

One or more aspects of contemporary culture in the Portuguese-speaking world.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** In English. May be retaken with change in topic to 12 cr max.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 397 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/change in topic.

**Last Taught:** Spring 2020, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 489 Internship in Portuguese, Upper Division**

1-3 cr. Undergraduate.

Application of advanced principles of Portuguese in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Portugs; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 3 cr max.

**Last Taught:** Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2017, Fall 2016, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 597 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 597G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 697 Study Abroad:**

1 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 697G Study Abroad:**

1 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PORTUGS 699 Independent Reading**

1-3 cr. Undergraduate.

Advanced independent work under supervision of a Portugs faculty or instructional academic staff member. Students must submit study proposal. For more information, consult dept chair.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken for cr.

**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Psychology (PSYCH)

**PSYCH 101 Introduction to Psychology**

3 cr. Undergraduate.

The scientific study of behavior.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 193 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** SS

**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2009, Spring 2009, Fall 2006, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 205 Personality**

3 cr. Undergraduate.

Principles of personality; an overview of adaptive and maladaptive behavior patterns.

**Prerequisites:** Psych 101(P).

**General Education Requirements:** SS

**Last Taught:** UWinteriM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 210 Psychological Statistics**

4 cr. Undergraduate.

Use of statistical techniques in Psychology. Lec & Lab.

**Prerequisites:** Psych 101(P); satisfaction of GER Quant Lit Part A req.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 211 Current Topics in Psychology:**

1-4 cr. Undergraduate.

The specific topics and additional prerequisites are announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** PSYCH 101(P).

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 214 Introduction to Conditioning and Learning**

3 cr. Undergraduate.

Introduction to principles and procedures of conditioning and learning.

**Prerequisites:** Psych 101(P).

**General Education Requirements:** SS

**Last Taught:** Summer 2023, Fall 2022, Fall 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 220 Introduction to Cognitive Psychology**

3 cr. Undergraduate.

Introducing the fundamentals of how people think. Topics include perception, attention, learning and memory, language, and decision-making.

**Prerequisites:** PSYCH 101(P).

**Course Rules:** Counts as repeat of PSYCH 211 with same topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 230 Social Psychology: Psychological Perspectives**

3 cr. Undergraduate.

Areas of social psychology such as aggression, attitudes, interpersonal attraction, and group processes examined from a psychological perspective.

**Prerequisites:** Psych 101(P).

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 254 Introduction to Neuroscience**

3 cr. Undergraduate.

An introduction to neuroscience and the neurobiological bases of behavior.

**Prerequisites:** PSYCH 101(P).

**General Education Requirements:** NS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 260 Child Psychology**

3 cr. Undergraduate.

The development of the child.

**Prerequisites:** Psych 101(P).

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 290 Undergraduate Research: Lower Division**

1-3 cr. Undergraduate.

Independent research under the supervision of a faculty member.

**Prerequisites:** fr & soph st only; Psych 101(P) and sponsorship by a faculty member.

**Course Rules:** May be retaken for cr.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 292 Psychology Field Placement-Lower Division**

3 cr. Undergraduate.

**Prerequisites:** Psych 101(P); cons instr & placement supervisor.

**Course Rules:** May be retaken for cr.

**Last Taught:** Spring 2019, Fall 2018, Summer 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Last Taught:** Spring 2018, Fall 2017, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 319 LGBTIQ Psychology**

3 cr. Undergraduate.

Psychological theory and research on sexual orientation.

**Prerequisites:** junior standing and PSYCH 101(P).

**Course Rules:** Foundations course.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 320 Psychology of Gender**

3 cr. Undergraduate.

Psychological theory and research on how gender influences our thinking, feelings, and behavior.

**Prerequisites:** junior standing and PSYCH 101(P).

**Course Rules:** Foundations course.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 325 Research Methods in Psychology**

4 cr. Undergraduate.

Design and execution of psychological research. Collection, analysis, and reporting of data.

**Prerequisites:** a grade of C or better in PSYCH 101(P) and PSYCH 210(P); and a grade of C or better in ENGLISH 102(P) or score of level 4 on EPT.

**Course Rules:** Lec & Lab.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 407 Personality Theory**

3 cr. Undergraduate.

Theories of personality. 2 hrs lec, 1 hr dis

**Prerequisites:** Psych 205(P).

**Course Rules:** Systems course.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 412 Abnormal Psychology**

3 cr. Undergraduate.

Psychology of abnormal behavior; the nature and social-biological origins of psychotic, neurotic, and other behavioral abnormalities.

**Prerequisites:** Psych 101(P).

**Course Rules:** Foundations and Systems course.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 433 Neuropsychology**

3 cr. Undergraduate.

Introduction to the theory, research literature and assessment of the cognitive and emotional aspects of brain function. Systems course.

**Prerequisites:** PSYCH 254(P) or consent of instructor.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 454 Psychopharmacology and Addiction**

3 cr. Undergraduate.

Examination of mode of action, acute and chronic effects, and the neurobiological and psychological characteristics of psychoactive drugs with an emphasis on addiction.

**Prerequisites:** PSYCH 254(P) or consent of instructor.

**Course Rules:** Foundations course.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored programs before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 1989.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 502 Applied Behavior Analysis**

4 cr. Undergraduate/Graduate.

Learning and motivation of human behavior in applied settings. Lab work in community agencies using operant methods, behavior modification, programmed instruction, AV systems. Lec, Lab.

**Prerequisites:** jr st; Psych 325(P).

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 502G Applied Behavior Analysis**

4 cr. Undergraduate/Graduate.

Learning and motivation of human behavior in applied settings. Lab work in community agencies using operant methods, behavior modification, programmed instruction, AV systems. Lec, Lab.

**Prerequisites:** jr st; Psych 325(P).

**Last Taught:** Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 503 Perception**

3 cr. Undergraduate/Graduate.

The nature of perception and its relation to environmental and internal processes.

**Prerequisites:** jr st; 9 cr in psych.

**Course Rules:** Systems course.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 503G Perception**

3 cr. Undergraduate/Graduate.

The nature of perception and its relation to environmental and internal processes.

**Prerequisites:** jr st; 9 cr in psych.

**Course Rules:** Systems course.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 505 Cognitive Processes**

4 cr. Undergraduate/Graduate.

Human information processing, emphasizing vision and language.

Topics: pattern recognition; sensory-specific memory systems, short- and long-term; modern approaches to mental imagery and operations. Lec, lab.

**Prerequisites:** jr st; Psych 325(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 505G Cognitive Processes**

4 cr. Undergraduate/Graduate.

Human information processing, emphasizing vision and language.

Topics: pattern recognition; sensory-specific memory systems, short- and long-term; modern approaches to mental imagery and operations. Lec, lab.

**Prerequisites:** jr st; Psych 325(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 510 Advanced Psychological Statistics**

3 cr. Undergraduate/Graduate.

Topics include probability and sampling theory, correlational methods, and nonparametric techniques. Foundations course.

**Prerequisites:** jr st & Psych 210(P); or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 510G Advanced Psychological Statistics**

3 cr. Undergraduate/Graduate.

Topics include probability and sampling theory, correlational methods, and nonparametric techniques. Foundations course.

**Prerequisites:** jr st & Psych 210(P); or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 540 Clinical Psychology: Science and Practice**

3 cr. Undergraduate.

Key concepts, findings, and their applications in the field of research and practice of clinical science.

**Prerequisites:** jr st.

**Course Rules:** Foundations course.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 550 History of Psychology**

3 cr. Undergraduate/Graduate.

The important philosophical and scientific antecedents of contemporary psychology.

**Prerequisites:** jr st; 9 cr in psych.

**Course Rules:** Systems course.

**Last Taught:** Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 550G History of Psychology**

3 cr. Undergraduate/Graduate.

The important philosophical and scientific antecedents of contemporary psychology.

**Prerequisites:** jr st; 9 cr in psych.

**Course Rules:** Systems course.

**Last Taught:** Fall 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 555 Health Psychology**

3 cr. Undergraduate.

Psychological contributions to physical health in areas such as changing health habits, stress and coping, pain, and chronic illness.

**Prerequisites:** Psych 254(P) or cons instr.

**Course Rules:** Systems course.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 578 Psychology of Race, Ethnicity, and Health**

3 cr. Undergraduate/Graduate.

Psychological theory and research on how health is related to race and ethnicity.

**Prerequisites:** jr st, Psych 101(P); or grad st.

**Course Rules:** Foundations course. No cr for students w/cr in Psych 611 w/similar topic.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 578G Psychology of Race, Ethnicity, and Health**

3 cr. Undergraduate/Graduate.

Psychological theory and research on how health is related to race and ethnicity.

**Prerequisites:** jr st, Psych 101(P); or grad st.

**Course Rules:** Foundations course. No cr for students w/cr in Psych 611 w/similar topic.

**Last Taught:** Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 610 Experimental Design**

3 cr. Undergraduate/Graduate.

Design and analysis of single and multi-factor experiments; tests for trends; multiple comparisons. Foundations course.

**Prerequisites:** jr st & Psych 210(P); or grad st.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 610G Experimental Design**

3 cr. Undergraduate/Graduate.

Design and analysis of single and multi-factor experiments; tests for trends; multiple comparisons. Foundations course.

**Prerequisites:** jr st & Psych 210(P); or grad st.

**Last Taught:** Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 611 Current Topics:**

1-4 cr. Undergraduate/Graduate.

Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing.

**Course Rules:** Foundations course. May be retaken with change in topic to 12 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 611G Current Topics:**

1-4 cr. Undergraduate/Graduate.

Specific topics and any additional prerequisites will be announced in the Schedule of Classes each time the course is offered.

**Prerequisites:** junior standing.

**Course Rules:** Foundations course. May be retaken with change in topic to 12 cr max.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 623 Perceptual Processes**

4 cr. Undergraduate.

Experimental investigation of perception.

**Prerequisites:** jr st & Psych 325(P)

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 627 Cognitive Neuroscience**

3 cr. Undergraduate.

How the brain enables the mind; broad introduction to cognitive neuroscience, with emphasis on a converging methods approach.

**Prerequisites:** jr st; Psych 210(P) & 254(P).

**Course Rules:** Systems course. Counts as repeat of Psych 611 w/same topic.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 630 Cellular and Molecular Neuroscience**

3 cr. Undergraduate.

Structural, electrophysiological, cellular, and molecular aspects of neural processes and how neuropsychiatric and neurodegenerative brain disorders impact them.

**Prerequisites:** junior standing or higher and PSYCH 254(P) or consent of instructor.

**Course Rules:** Foundations course. Counts as a repeat of PSYCH 611 with same topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 645 Hormones and Behavior**

3 cr. Undergraduate.

Effects of hormones on behavior and brain function in various species.

**Prerequisites:** junior standing and PSYCH 254(P), or consent of instructor.

**Course Rules:** Counts as repeat of PSYCH 611 with same topic.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 654 Advanced Behavioral Neuroscience**

4 cr. Undergraduate/Graduate.

Advanced topics in behavioral neuroscience focused on nervous system development, network-based organization, and neural plasticity. Lec, lab.

**Prerequisites:** junior standing or greater, PSYCH 254(P), and PSYCH 325(P).

**Course Rules:** Required special course fee assessed; announced in Schedule of Classes each term.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 654G Advanced Behavioral Neuroscience**

4 cr. Undergraduate/Graduate.

Advanced topics in behavioral neuroscience focused on nervous system development, network-based organization, and neural plasticity. Lec, lab.

**Prerequisites:** junior standing or greater, PSYCH 254(P), and PSYCH 325(P).

**Course Rules:** Required special course fee assessed; announced in Schedule of Classes each term.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 656 Psychophysiology**

4 cr. Undergraduate.

Experimental investigation of physiological factors in human behavior. Lec, lab.

**Prerequisites:** jr st; Psych 254(R) & 325(P).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 657 Neurobiology of Learning and Memory**

3 cr. Undergraduate/Graduate.

Functional and structural alterations in nervous system underlying organism's ability to learn/remember. Principles drawn from molecular and cellular neurobiology, neurophysiology, neuroanatomy, and behavioral neuroscience.

**Prerequisites:** jr st.

**Course Rules:** Systems course. Counts as repeat of Psych 611 w/same topic.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 657G Neurobiology of Learning and Memory**

3 cr. Undergraduate/Graduate.

Functional and structural alterations in nervous system underlying organism's ability to learn/remember. Principles drawn from molecular and cellular neurobiology, neurophysiology, neuroanatomy, and behavioral neuroscience.

**Prerequisites:** jr st.

**Course Rules:** Systems course. Counts as repeat of Psych 611 w/same topic.

**Last Taught:** Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 660 Experimental Child Psychology**

4 cr. Undergraduate/Graduate.

Experimental investigation of child behavior and development. Lec, lab.

**Prerequisites:** jr st; Psych 260(R) & 325(P).

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 660G Experimental Child Psychology**

4 cr. Undergraduate/Graduate.

Experimental investigation of child behavior and development. Lec, lab.

**Prerequisites:** jr st; Psych 260(R) & 325(P).

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 677 Experimental Social Psychology**

4 cr. Undergraduate/Graduate.

Experimental investigation of social behavior. Lec, lab.

**Prerequisites:** jr st; Psych 230(R) & 325(P).

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 677G Experimental Social Psychology**

4 cr. Undergraduate/Graduate.  
Experimental investigation of social behavior. Lec, lab.  
**Prerequisites:** jr st; Psych 230(R) & 325(P).  
**Last Taught:** Fall 2023, Fall 2022.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 680 Psychology of Aging**

3 cr. Undergraduate/Graduate.  
Extension of principles of general psychology to the process of aging.  
**Prerequisites:** jr st; Psych 325(P) or cons instr.  
**Course Rules:** Systems course.  
**Last Taught:** Fall 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 680G Psychology of Aging**

3 cr. Undergraduate/Graduate.  
Extension of principles of general psychology to the process of aging.  
**Prerequisites:** jr st; Psych 325(P) or cons instr.  
**Course Rules:** Systems course.  
**Last Taught:** Fall 2023.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 682 The Aging Brain**

3 cr. Undergraduate.  
Effects of aging process on brain function; resulting effects on psychological function.  
**Prerequisites:** junior standing and PSYCH 254(P), or consent of instructor.  
**Course Rules:** Counts as repeat of PSYCH 611 with same topic.  
**Last Taught:** Spring 2022, Spring 2020, Fall 2017.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 690 Undergraduate Research: Upper Division**

1-3 cr. Undergraduate.  
Independent research under the supervision of a faculty member.  
**Prerequisites:** jr st; sponsorship by a faculty member.  
**Course Rules:** May be retaken for cr.  
**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 692 Field Placement in Psychology**

3 cr. Undergraduate.  
**Prerequisites:** jr st; cons instr & placement supervisor.  
**Course Rules:** May be retaken for cr.  
**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 697 Field or Research Placement in Psychology for Seniors**

3 cr. Undergraduate.  
**Prerequisites:** sr st; cons instr &, if appropriate, placement supervisor.  
**Course Rules:** Fulfills Capstone req.  
**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 698 Senior Thesis**

3 cr. Undergraduate.  
Completion of thesis under the supervision of faculty.  
**Prerequisites:** sr st; 3.5 gpa in all Psych course work or cons instr.  
**Course Rules:** May be retaken to 6 cr max.  
**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 699 Independent Study**

1-3 cr. Undergraduate.  
Advanced independent work under the supervision of a Psych faculty member. Students must submit study proposal to the prof with whom they wish to study. For additional information, consult supervising prof.  
**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair and Assistant Dean for Student Academic Services.  
**Course Rules:** May be retaken with change in topic.  
**Last Taught:** Fall 2023, Spring 2021, Fall 2020, Spring 2020.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 702 Applied Behavior Analysis**

3 cr. Graduate.  
Use of learning principles and procedures to solve behavior problems. 3 hrs lec, 1 hr dis.  
**Prerequisites:** grad st.  
**Last Taught:** Spring 2022, Fall 2021, Spring 2009, Spring 2005.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 710 Survey of Clinical Research Methods**

3 cr. Graduate.  
Various research methods in clinical psychology.  
**Prerequisites:** grad st.  
**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 711 Current Topics in Psychology:**

1-4 cr. Graduate.  
Specific topics and any additional prerequisites will be announced in the schedule of classes each time the course is offered.  
**Prerequisites:** graduate standing.  
**Course Rules:** Retakable with change in topic to 9 cr max.  
**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 712 Professional Ethics and Issues in Clinical Psychology**

3 cr. Graduate.  
Introduction to clinical practice and ethics.  
**Prerequisites:** grad st.  
**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 727 Cognitive Neuroscience**

3 cr. Graduate.  
How the brain enables the mind; broad introduction to cognitive neuroscience, with emphasis on a converging methods approach.  
**Prerequisites:** grad st.  
**Course Rules:** Counts as repeat of 711 w/same topic.  
**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Fall 2021.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 741 Foundations of Psychotherapy**

3 cr. Graduate.  
Introduction to psychotherapies: origins, orientations, procedures, and empirical support.  
**Prerequisites:** grad st.  
**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.  
**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**PSYCH 742 Empirically-Supported Interventions**

3 cr. Graduate.

Research-supported therapy protocols for a variety of behavioral disorders; didactic instruction and role-play practice/feedback.

**Prerequisites:** grad st; some background in psychopathology & systems of psychotherapy recom.

**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 745 Hormones and Behavior**

3 cr. Graduate.

Effects of hormones on behavior and brain function in various species.

Counts as repeat of Psych 711 with same topic.

**Prerequisites:** grad st

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 750 The History of Psychology**

3 cr. Graduate.

Examination of the grounding of modern psychological theory and practice in the history of western culture. 3 hrs lec, 1 hr dis.

**Prerequisites:** grad st.

**Course Rules:** Not open to students with cr in Psych 550(ER).

**Last Taught:** Fall 2022, Fall 2020, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 754 Proseminar in Neuroscience**

3 cr. Graduate.

Overview of current topics in neuroscience including neuropsychopharmacology, neuropsychology, psychophysiology, and behavioral medicine.

**Prerequisites:** acceptance to the PhD program in Psychology: Neuroscience program and consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 756 Psychophysiology**

3 cr. Graduate.

Experimental investigation of physiological factors in behavior. 2 hrs lec; 1 hr dis.

**Prerequisites:** grad st.

**Course Rules:** Not open to students with cr in Psych 656(ER).

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 760 Experimental Child Psychology**

3 cr. Graduate.

Investigation of experimental research relating to infant and child behavior. Lec, Lab, Dis.

**Prerequisites:** grad st.

**Course Rules:** No cr for students w/cr in Psych 660(ER).

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 782 The Aging Brain**

3 cr. Graduate.

Effects of aging process on brain function; resulting effects on psychological function. Counts as repeat of Psych 711 with same topic.

**Prerequisites:** grad st.

**Last Taught:** Spring 2022, Spring 2020, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 790 Masters Research**

1-6 cr. Graduate.

**Prerequisites:** grad st & cons advisory committee.

**Course Rules:** Retakable.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 799 Advanced Independent Study**

1-6 cr. Graduate.

**Prerequisites:** grad st & sponsorship by a faculty member.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Spring 2019, Spring 2018, Spring 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 802 First-Year Clinical Psychology Practicum**

3 cr. Graduate.

Administration of psychological tests to clinic clients; interviewing, contact with referred sources, feedback of test results to clients, written reports and co-therapy with experienced therapist.

**Prerequisites:** grad st; clinical training prog; cons instr.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 811 Community Placement in Clinical Psychology**

3 cr. Graduate.

Specific agency and additional prerequisites announced in the schedule of classes each time the course is offered.

**Prerequisites:** grad st; cons instr & placement supervisor.

**Course Rules:** Retakable w/chg of placement to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 812 Field Placement in Psychology**

3 cr. Graduate.

**Prerequisites:** grad st; cons instr & placement supervisor.

**Course Rules:** Retakable for cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 814 Clinical Psychology Multicultural Seminar**

1 cr. Graduate.

Development of foundation in cultural consciousness, models of cultural competency, and cultural humility; practice in dialogue on identity, power, implicit bias, health disparities and structural inequities.

**Prerequisites:** graduate standing.

**Course Rules:** Repeatable to 4 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 815 Cases in Clinical Neuropsychology**

1 cr. Graduate.

Didactic training in clinical neuropsychological evaluation, diagnosis, treatment, and consulting. Format includes lectures, journal reviews, and case conferences.

**Prerequisites:** Clinical psych doctoral student or cons instr.

**Course Rules:** Retakable to 5 cr max. Counts as repeat of Psych 711 w/ similar topic.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 821 Practicum in Assessment I**

3 cr. Graduate.

Practical experience utilizing techniques used in Assessment I (Psych 831).

**Prerequisites:** grad st; Psych 712(P), 801(P), 912(P); clinical training prog. Conc reg Psych 831(C) by clinical Psych students.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 822 Practicum in Assessment II**

1-3 cr. Graduate.

Practical experience utilizing techniques used in Assessment II (Psych 832).

**Prerequisites:** grad st; Psych 821(P); clinical training prog. Psych 832(C) by clinical psych students.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 831 Assessment I**

3 cr. Graduate.

Objective techniques used in the appraisal of personality and intellectual processes.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 832 Assessment II**

1 cr. Graduate.

Case conceptualization and group supervision for child and adult assessment.

**Prerequisites:** graduate standing; PSYCH 831(P).**Course Rules:** Repeatable to 6 cr max.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 833 Neuropsychology**

3 cr. Graduate.

Anatomy, pathology, and neuropsychology of the higher brain functions in humans. Prereq: grad st.

**Last Taught:** Spring 2022, Spring 2019, Spring 2015, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 834 Seminar in Advanced Assessment:**

3 cr. Graduate.

Specific topics and any additional prerequisites will be announced in the Timetable each time the course is offered.

**Prerequisites:** grad st; Psych 831(P).**Course Rules:** Retakable w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 842 Practicum in Therapy**

4 cr. Graduate.

Supervised practicum experience with therapeutic techniques used in clinical psychology.

**Prerequisites:** grad st; Psych 712(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 844 Practicum in Clinical Supervision**

3 cr. Graduate.

Practicum to enhance theoretical and practical skills for supervising clinical work.

**Prerequisites:** grad st; completion of all required clinical Psych courses & practica.**Course Rules:** Retakable to 12 cr max.**Last Taught:** Spring 2016, Fall 2015, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 845 Practicum in Empirically-Supported Interventions**

1-3 cr. Graduate.

Application of techniques learned in Psych 742 (Empirically-Supported Interventions).

**Prerequisites:** grad st; Psych 742(C).**Course Rules:** Retakable once to 3 cr max.**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 854 Behavioral Neuroscience**

3 cr. Graduate.

Introduction to current research and theory regarding the neural basis of behavior.

**Prerequisites:** grad st.**Course Rules:** Not open to students who have cr in Psych 654(ER).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Spring 2005, Summer 2004, Summer 2003, Fall 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 890 Graduate Research**

1-6 cr. Graduate.

**Prerequisites:** grad st & sponsorship by a grad faculty member.**Course Rules:** Retakable.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 912 Developmental Psychopathology**

3 cr. Graduate.

Seminar on concepts and research in the scientific study of psychopathology across the lifespan

**Prerequisites:** grad st.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PSYCH 930 Seminar in Social Psychology**

3 cr. Graduate.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 933 Seminar in Neuroscience**

2 cr. Graduate.

Student oral and poster presentations in cellular, molecular, behavioral, and cognitive neuroscience. Students will also write evaluations and summaries of external presentations.

**Prerequisites:** grad st in Bio Sci, Psych, or Ed Psych or cons instr

**Course Rules:** Retakable to 8 cr max. Psych 933 & Bio Sci 933 are jointly offered; students may enroll under only one of the curricular areas in any single semester.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 955 Seminar in Social Psychology and Health**

3 cr. Graduate.

Theoretical and empirical contributions of social psychology to health.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 961 Seminar in Child-Clinical Psychology**

1 cr. Graduate.

Diagnosis, etiology, therapy, and research in child-clinical psychology are discussed and criticized.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as a repeat of PSYCH 711 with similar topic. Repeatable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2007, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 990 Doctoral Research**

1-6 cr. Graduate.

**Prerequisites:** grad st & admis to candidacy for Ph.D. degree.

**Course Rules:** Retakable.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PSYCH 995 Clinical Psychology Internship**

1-3 cr. Graduate.

Required internship for students in the clinical psychology PhD program.

**Prerequisites:** clinical psych doctoral student; dissertator status; proposal hearing passed; cons instr.

**Course Rules:** Considered full time for FA purposes. Retakable. Students who have passed dissertation defense enroll for 1 cr; all others enroll for 3 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Public Administration (PUB ADM)

**PUB ADM 243 Public Administration**

3 cr. Undergraduate.

The means used to implement political values with emphasis on problems of administration in modern government.

**Prerequisites:** none.

**Course Rules:** Pol Sci 243 & Pub Adm 243 are jointly offered; they count as repeats of one another.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 400 Ethics and Responsibility in Public Administration**

3 cr. Undergraduate/Graduate.

How public administrators make ethically-sound decisions; moral and value systems that shape public administration; temptations that can cause officials to stray from ethical standards.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Pol Sci 387 w/ Administrative Ethics & Responsibility subtitle.

**Last Taught:** Fall 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 400G Ethics and Responsibility in Public Administration**

3 cr. Undergraduate/Graduate.

How public administrators make ethically-sound decisions; moral and value systems that shape public administration; temptations that can cause officials to stray from ethical standards.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of Pol Sci 387 w/ Administrative Ethics & Responsibility subtitle.

**Last Taught:** Fall 2014, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 452 Administrative Law**

3 cr. Undergraduate/Graduate.

An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory investigatory, and enforcement activities of administrative agencies.

**Prerequisites:** jr st.

**Course Rules:** American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 452G Administrative Law**

3 cr. Undergraduate/Graduate.

An examination of due process, privacy, and other constitutional and legal issues as they arise in the regulatory investigatory, and enforcement activities of administrative agencies.

**Prerequisites:** jr st.

**Course Rules:** American politics course. Pol Sci 452 & Pub Adm 452 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 461 Organizational Theory and Practice**

3 cr. Undergraduate/Graduate.

Analysis of the role of organizations in contemporary society, with particular emphasis on governmental organizations that have formal regulation of individual group behavior as their basic functions.

**Prerequisites:** jr st.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 461G Organizational Theory and Practice**

3 cr. Undergraduate/Graduate.

Analysis of the role of organizations in contemporary society, with particular emphasis on governmental organizations that have formal regulation of individual group behavior as their basic functions.

**Prerequisites:** jr st.

**Last Taught:** Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 630 Budgeting and Finance in the Public Sector**

3 cr. Undergraduate/Graduate.

Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.

**Prerequisites:** sr st or cons instr.

**Course Rules:** Jointly-offered w/& counts as repeat of UrbPlan 630.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 630G Budgeting and Finance in the Public Sector**

3 cr. Undergraduate/Graduate.

Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.

**Prerequisites:** sr st or cons instr.

**Course Rules:** Jointly-offered w/& counts as repeat of UrbPlan 630.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 730 Budgeting for Public Sector Professionals**

3 cr. Graduate.

Budgeting skills for effective local and state government management; financial reporting, revenue collection and administration, pension funds, debt issuance, analytical techniques used in public budgeting.

**Prerequisites:** grad st

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 750 Public Administration Risk and Analysis**

3 cr. Graduate.

Efficiency analysis; return-on-investment analysis; shared services vs. privatization; total employee compensation as a management tool; risk mitigation; the government purchasing process.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 763 Scope and Dynamics of Public Administration**

3 cr. Graduate.

The field of public administration, including organization theory, public management, the politics of administration, and the role of government in policy-making.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 769 Analyzing and Evaluating Public Policies and Programs**

3 cr. Graduate.

Examination of methods, including cost-benefit analysis and decision analysis, that aid policy makers and administrators in understanding and assessing public and nonprofit sector policies and programs.

**Prerequisites:** grad st.

**Course Rules:** Pol Sci 769 & Pub Adm 769 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 792 Decision-Making for Nonprofit and Public Organizations**

3 cr. Graduate.

Research methods including research design, measurement, and analysis. Qualitative and quantitative decision-making methods. Understanding and using basic statistical concepts and techniques in decision making.

**Prerequisites:** grad st

**Course Rules:** Nonprof 792 & Pub Adm 792(Pol Sci 792) are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 12 cr max. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2016, Spring 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 914 Seminar in Intergovernmental Relations**

3 cr. Graduate.

Policy issues in intergovernmental relations and the complex governmental context in which Americans live and work.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 921 Public Service Administrative Internship**

3 cr. Graduate.

This course combines a supervised field placement in a governmental agency or non-profit organization with class sessions and assignments designed to augment the work experience.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Fall 2020, Spring 2019, Spring 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 958 Seminar in Public Administration:**

3 cr. Graduate.

Selected topics covering different aspects of public administration.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 959 Capstone Seminar in Public Administration**

3 cr. Graduate.

Seminar in public administration focusing on administrative ethics and applied research. Requires written and oral presentation of research project.

**Prerequisites:** grad st; completion of MPA core curriculum.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PUB ADM 965 Municipal Management**

3 cr. Graduate.

The political, social, and economic contexts in which the urban manager functions, with an emphasis on managing municipal service delivery and resources.

**Prerequisites:** grad st.**Course Rules:** Pub Adm 965(Pol Sci 965) & Urb Std 965 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PUB ADM 999 Independent Study**

1-3 cr. Graduate.

Independent study in a subject area of special need or interest after consultation with a faculty member.

**Prerequisites:** grad st**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Public Health (PH)

**PH 100 New Student Experience in Public Health**

1 cr. Undergraduate.

Students new to UWM develop academic and life skills for success, explore campus resources, and reflect on personal development and careers in public health.

**Prerequisites:** none.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 101 Introduction to Public Health**

3 cr.

Introduction to history, science and philosophy of Public Health including scientific research, policy development and health education.

**Prerequisites:** none.**Course Rules:** PH 101 and CGS HES 101 are jointly offered; they count as repeats of one another.**General Education Requirements:** SS**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 142 Exploring Global Environmental Health**

3 cr. Undergraduate.

Introduction to the sciences underpinning the study and response to infectious, chemical, and physical environmental threats to human health within a global public health framework.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 201 Public Health from Cells to Society I**

3 cr. Undergraduate.

Introduces public health as a holistic interdisciplinary field spanning cell to society. Emphasizes active learning about current public health problems from multilevel and lifecourse perspectives.

**Prerequisites:** Prerequisites: PH 101(P) or PH 142(P); BioSci 102(C).**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 202 Public Health from Cells to Society II**

3 cr. Undergraduate.

Introduces multilevel societal drivers of health inequities over the lifecourse. Actively explores how social inequality gets under the skin to influence current public health problems.

**Prerequisites:** PH 201(P); KIN 270(R) or SOCIOL 261(R).**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 206 Child and Adolescent Health**

3 cr. Undergraduate.

Review evidence-based child and adolescent health promotion in school, community, and clinical settings; Adolescent risk behaviors of special interest.

**Prerequisites:** none.**Last Taught:** Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** Retakable w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 302 Health and Disease: Concepts and Contexts**

3 cr. Undergraduate.

Concepts of health and disease across social, historical, political, and cultural contexts, with particular attention to the workings of race, gender, and sexuality.

**Prerequisites:** jr st & satisfaction of OWC-B.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 303 Climate Change, the Environment and Human Health**

3 cr. Undergraduate.

Acquire knowledge about and be able to identify ways in which climate change adversely affects human health globally, nationally and locally.

**Prerequisites:** soph st; or cons instr.**General Education Requirements:** NS**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 304 Foundations of Epidemiology**

3 cr. Undergraduate.

Introduces descriptive and analytic epidemiology, determinants of health and health inequities in populations, and basic application of quantitative epidemiologic methods to public health.

**Prerequisites:** PH 101(P); KIN 270(C), SOCIOL 261(C), MTHSTAT 215(C), or equivalent; or consent of instructor.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 306 Adolescent Health & Development**

3 cr. Undergraduate.

A public health perspective on adolescent development and health/ mental health promotion Readings, assignments and activities focus on drug use, sexuality, obesity, trauma, depression and violence.

**Prerequisites:** Psych 101(P) or PH 101(P) or cons instr.

**General Education Requirements:** SS

**Last Taught:** Fall 2019, Spring 2019, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 319 Introduction to Health Disparities**

3 cr. Undergraduate.

An introduction to health inequalities as they pertain to racial and ethnic populations in the U.S. and an overview of key determinants of population health.

**Prerequisites:** PH 101(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 327 Foundations for Action in Public Health**

3 cr. Undergraduate.

History, perspectives, and theoretical foundations of taking action and making change in public health and related disciplines.

**Prerequisites:** sophomore standing; PH 101(P); satisfaction of GER OWC Part A.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 345 Green fish, green worms & more: animal models and their applications**

3 cr. Undergraduate.

An introduction to the field of applied public health biology where animal models are being utilized to determine how environmental contaminants influence human health.

**Prerequisites:** none.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 346 Environmental Health and Disease**

3 cr. Undergraduate.

Investigates how the environment and/or environmental factors impact human health and population health with an emphasis on the developmental origins of disease.

**Prerequisites:** Bio Sci 102(P) & PH 142(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 355 Public Health Research Methods I**

3 cr. Undergraduate.

Introduction to public health qualitative and quantitative research methods and considerations for conducting ethical public health research.

**Prerequisites:** KIN 270(C) or SOCIOL 261(C), PH 101(P), and PH 304(C).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 375 Topics in Public Health:**

1-3 cr. Undergraduate.

Topics of current interest in Public Health for undergradates.

**Prerequisites:** none.

**Course Rules:** May be retaken w/ chg in topic.

**Last Taught:** Spring 2015, Summer 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 408 Comparative Health Systems: A Social Determinants Approach**

3 cr. Undergraduate.

Building on a conceptual foundation and diverse examples, introduces the US and international healthcare systems, and their role in improving population health and health equity.

**Prerequisites:** jr st & POL SCI 103(P), 104(P), 175(P), or 210(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 410 True Lies: Consuming and Communicating Quantitative Information**

3 cr. Undergraduate.

Develops quantitative critical thinking skills, from elementary statistics to causal inference and data visualization. Examines how data are used in health-related sciences and mass-media reports.

**Prerequisites:** KIN 270(P) or SOCIOL 261(P); PH 304(P).

**Last Taught:** Spring 2023, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 427 Strategies for Action in Public Health**

3 cr. Undergraduate.

In-depth study of assessment and planning methods, theory application, and interdisciplinary community-engaged approaches and strategies for taking action to promote population health and health equity.

**Prerequisites:** PH 327(P) & satisfaction of OWC-B.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 428 Program Implementation & Evaluation for a Healthy Society**

3 cr. Undergraduate.

Introduces concepts and methods for developing strategies of implementation and evaluation of health programs. Fundamental knowledge and skills for implementing and evaluating health promotion programs.

**Prerequisites:** PH 427(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 455 Public Health Research Methods II**

3 cr. Undergraduate.

Application of qualitative and quantitative methods, interpretation of findings and communication of results in public health research.

**Prerequisites:** PH 355(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 467 History of Scientific Reasoning in Global Public Health and Epidemiology**

3 cr. Undergraduate.

Introduction to the historical development of public health and epidemiology, and how historical and social contexts shape scientific theories of disease distribution and determinants.

**Prerequisites:** HCA 307(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 478 Public Health Research Using Social Media**

3 cr. Undergraduate.

Hands-on research and discussion seminar in which students examine a selected issue tied to social media and public health.

**Prerequisites:** PH 455(P).

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 600 Public Health Integrative Experience (Service Learning)**

3 cr. Undergraduate.

Culmination of public health major. Integrates and applies core public health competencies through an experiential service learning placement in a community organization, and seminar-style discussions.

**Prerequisites:** sr st.; declared PH major; cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 699 Independent Study**

1-3 cr. Undergraduate.

Independent study on a topic not available as a regular course.

**Prerequisites:** cons instr.

**Last Taught:** Summer 2023, Spring 2023, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 700 Structures of Inequality and Population Health**

3 cr. Graduate.

Foundations of public health, critical social theory, and social justice praxis, which provide essential interdisciplinary tools for analyzing sociostructural processes and advancing social and health equity.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 701 Public Health Principles and Practice**

3 cr. Graduate.

Examination of fundamental principles designed to improve the health of the public, public health theories, domains, and practices.

**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 702 Introduction to Biostatistics**

3 cr. Graduate.

Development and application of statistical reasoning and methods in addressing, analyzing and solving problems in public health. Includes lab section with introduction to SAS, including macros and core statistical analysis functions.

**Prerequisites:** grad st; Math 116 with B or better, or equivalent, or cons instr

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 703 Environmental Health Sciences**

3 cr. Graduate.

Survey of effects environment has on humans, and effects humans have on environment, emphasis on toxicology and infectious disease.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 704 Principles and Methods of Epidemiology**

3 cr. Graduate.

Quantitative study of patterns and determinants of health in human populations applying biomedical and social epidemiology perspectives. Problem-based lab includes surveillance, measurement, study design, and causal inference applications.

**Prerequisites:** grad st; PH 702(C) or cons instr

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 705 Principles of Public Health Policy and Administration**

3 cr. Graduate.

The role of policy in influencing population health, policies that promote public health, the policymaking process, and the planning and administration of health systems.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 706 Perspectives on Community & Behavioral Health**

3 cr. Graduate.

Philosophical underpinnings, conceptual frameworks, and strategies for the application of behavioral and social science concepts to the goals of public health. Prereq: grad st

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 708 Health Systems and Population Health**

3 cr. Graduate.

Using fundamental concepts of health systems design, international comparisons, and case studies, this course demonstrates strategies through which health systems could improve health and reduce inequities by addressing social vulnerabilities.

**Prerequisites:** grad st

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 710 Seminar in Biostatistics and Bioinformatics**

1 cr. Graduate.

This course provides general approaches and collection of biostatistics and bioinformatics methods and practice used in public health.

**Prerequisites:** gr st or consent of instructor.

**Last Taught:** Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 711 Intermediate Biostatistics**

3 cr. Graduate.

Introduction to modern multivariable statistical analysis, based on generalized linear models. Topics include linear regression, logistic regression, one-way and two-way ANOVA, longitudinal analysis, missing data, and mixed models.

**Prerequisites:** grad st; PH 702(P) or cons instr

**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 712 Probability and Statistical Inference**

3 cr. Graduate.

Introductory graduate-level course that provides students with a mathematical treatment and understanding of key concepts in probability and distribution theory and statistical inference, and their applications in public health.

**Prerequisites:** grad st; Math 231 (P) & 232 (P) or equivalent, or cons instr

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 714 Statistical Genetics and Genetic Epidemiology**

3 cr. Graduate.

Introduction to statistical methods for the analysis of family and population based genetic data, including methods can be used in linkage analysis, family-based and population-based association studies.

**Prerequisites:** grad st; PH 702(P) and PH 711(P) or cons instr

**Last Taught:** Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 715 Applied Categorical Data**

3 cr. Graduate.

Data analysis techniques for various kinds of categorical data for public health related examples using SAS.

**Prerequisites:** grad st; PH 711(P) and PH 712(P) or cons instr

**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 716 Applied Survival Analysis**

3 cr. Graduate.

This course covers basic concepts and techniques in the statistical analysis of survival data.

**Prerequisites:** Grad St; PH711(P) (or PH759(P)) and PH712(P); or consent of instructor.

**Last Taught:** Spring 2022, Spring 2021, Fall 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 717 Applied Longitudinal Data Analysis**

3 cr. Graduate.

This course will cover data analysis techniques for longitudinal data with focus on application in public health with related examples using SAS.

**Prerequisites:** PH 711 and PH 712; cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 718 Data Management and Visualization in R**

3 cr. Graduate.

This course covers basic concepts and techniques for statistical programming with the R computing language.

**Prerequisites:** PH711; cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 719 Social Justice in Public Health**

3 cr. Graduate.

This course is designed to introduce you to the major social variables (e.g., socioeconomic status, race, poverty, social support, neighborhood environment) that affect public health.

**Prerequisites:** grad st

**Last Taught:** Spring 2018, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 720 Special Topics in Biostatistics:**

1-3 cr. Graduate.

Survey of an area in Biostatistics. Specific credits and add'l prereqs announced in Schedule of Classes each time course is offered.

**Prerequisites:** grad st

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2019, Fall 2017, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 721 Introduction to Translational Bioinformatics**

3 cr. Graduate.

Review bioinformatics knowledge and analytical skills, high-throughput technologies that produce various omic data, along with the methodologies to analyze and interpret different layers of information.

**Prerequisites:** grad st; PH 711(P) or cons instr

**Last Taught:** Spring 2021, Spring 2019, Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 722 An Introduction to Bayesian Statistics**

3 cr. Graduate.

In parallel to classical statistical frequentist approach, Bayesian statistics serves another way to make statistical inference, which not only rely on the sample information collected, but also on external prior knowledge.

**Prerequisites:** PH 702(P); PH 711(P); PH 712(P); and PH 718(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 723 Design, Conduct and Analysis of Clinical Trials**

3 cr. Graduate.

Introduction to the design, conduct and analysis of phase I-IV clinical trials, with an emphasis on phase III trials and ethical issues in clinical research.

**Prerequisites:** grad st; PH 711 (P), or cons instr

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 725 Theories and Models of Health Behavior**

3 cr. Graduate.

Examine theories of health behavior targeted to each level of the social ecological model, including historical and public health context. Assess utility of these theories in various domains.

**Prerequisites:** grad st

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 726 Community Health Assessment**

3 cr. Graduate.

Introduction to the concepts and techniques of community health assessment; conducting and critically analyzing community assessments.

**Prerequisites:** grad st; PH 701(P) or cons instr

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 727 Program Planning & Implementation in Public Health**

3 cr. Graduate.

Systematic approach to planning and implementing public health programs, examining program monitoring, methods of impact assessment, and measuring efficiency.

**Prerequisites:** grad st

**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 728 Program Evaluation in Public Health**

3 cr. Graduate.

Students design and present research and evaluation plans, receive guidance on developing conceptual frameworks and hypotheses, collecting and analyzing data, and developing program evaluation plans.

**Prerequisites:** grad st; PH 702(P) or cons inst

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 729 Survey Research Methods in Public Health**

3 cr. Graduate.

The application of survey methods with emphases on sampling, survey design and planning, and data collection procedures.

**Prerequisites:** grad st; PH 702(P) or cons inst

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**PH 730 Overview of Children with Special Health Care Needs**

3 cr. Graduate.

Overview of the complex issues affecting children with special health care needs and their families, including access/use of health programs and other services, policies, interventions, financing, and coordination/transition of care.

**Prerequisites:** graduate standing and PH 820(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 733 Overview of Qualitative Methods for Public Health**

1 cr. Graduate.

Introduction to qualitative methods for public health.

**Prerequisites:** graduate standing or consent of instructor.

**Course Rules:** Counts as repeat of PH 740 with similar topic.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 740 Special Topics in Public Health:**

1-3 cr. Graduate.

Topics of current interest in public health.

**Prerequisites:** grad st.

**Course Rules:** May be repeated w/ chg in topic to 10 cr max.

**Last Taught:** Spring 2021, Fall 2020, Spring 2020, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 741 Environmental Public Health Microbiology**

3 cr. Graduate.

Environmental health microbiology is the study of microbial processes in water, land, and food that affect human health.

**Prerequisites:** grad st; completed minimum of one undergraduate microbiology course.

**Last Taught:** Spring 2021, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 743 Environmental Risk Assessment**

3 cr. Graduate.

Risk assessment practices from an environmental health perspective, complexities and challenges of regulation, management, and mitigation of risks for both human and ecosystem health.

**Prerequisites:** grad st; PH 702(P) & PH 703 (P) or cons instr

**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 745 Developmental Toxicology**

3 cr. Graduate.

An introduction to the field of developmental toxicology and how environmental contaminants influence vertebrate development, including humans.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 750 Seminar in Environmental Health Sciences:**

1-3 cr. Graduate.

Survey of an area in environmental health.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max. Specific credits and additional prerequisites announced in Schedule of Classes each time the course offered.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 752 Public Health and Mental Health**

3 cr. Graduate.

Understanding mental health and mental illness from a public health perspective; designed for an interdisciplinary audience of students, researchers and practitioners.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2020, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 758 Social Epidemiology**

3 cr. Graduate.

Foundations of social epidemiology, including key concepts, theoretical frameworks, and methods for studying social and structural determinants of population health and health inequity.

**Prerequisites:** grad st; PH 700(P), PH 702(P), and PH 704(P); or cons instr

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 759 Intro to Regression for Understanding the SDOH**

3 cr. Graduate.

Using STATA on real data to build regression models, perform diagnostics, and interpret results. Utilize social theory to put results into context.

**Prerequisites:** grad st; PH 700(P), PH 702(P), PH 704(P), or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 761 Epidemiology Field Methods**

3 cr. Graduate.

Prepares students to conduct epidemiologic field studies. Introduction of reviewing literature, designing questionnaires, developing surveillance systems, conducting emergency outbreak investigations, applying for IRB approval, and public relations.

**Prerequisites:** grad st; PH 700(P), 702(P), and PH 704 (P) or cons instr

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 762 Environmental Epidemiology**

3 cr. Graduate.

Expands upon basic epidemiological principles to tackle current problems in studies of health impacts of contaminants in air, water, food supply, consumer products, and indoor spaces, emphasizing a cross-disciplinary approach.

**Prerequisites:** grad st; PH 703(C) and PH 704(P) or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 763 Epidemiology for Equity**

3 cr. Graduate.

Students will integrate epidemiology methods with the principles, methods, and skills of participatory action research aimed at structural change to promote social and/or environmental justice and health equity.

**Prerequisites:** grad st; PH 700(P), 702(P), PH 704(P), and PH 790 (C); or consent of instructor

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 768 Cancer Epidemiology**

3 cr. Graduate.

The course will provide an introduction to cancer epidemiology and prevention evaluating methods to study cancer etiology and survival with a particular focus on understanding cancer disparities.

**Prerequisites:** grad st; PH 702(P) and PH 704(P); or cons instr grad st; PH 702(P) and PH 704(P); or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 769 Critical Perspectives on Nutritional Epidemiology and the Food System**

3 cr. Graduate.

This course offers a synthesis of nutritional epidemiological methods and food systems perspectives to build students critical understanding of diets, nutrition, and their public health implications.

**Prerequisites:** grad st; PH702(P), PH704(P), and PH705(P); or consent of instructor

**Last Taught:** Spring 2023, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 776 Qualitative Approaches in Public Health Policy**

3 cr. Graduate.

Introduces students to foundational approaches to qualitative research for use in public health policy and administration. Provides opportunities to practice foundational data collection, research analysis, reflexivity, and research design skills.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2021, Spring 2017, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 777 Quantitative Research Methods for Public Health Policy**

3 cr. Graduate.

Introduces quantitative methods commonly used in public health policy and administration decision-making, skills to analyze quantitative research and to apply knowledge generated from research to the public health policy and administration context.

**Prerequisites:** graduate standing, PH 702(P), and completion or concurrent enrollment in PH 704; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 779 Public Health Policymaking and Policy Analysis**

3 cr. Graduate.

Introduces students to key frameworks for public health policymaking and policy analysis. Students apply concepts to a real world public health problem of their choice.

**Prerequisites:** grad st; PH705(P) or MSP760(P) or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 780 Seminar in Public Health Policy and Administration**

1-3 cr. Graduate.

Survey of an area in Public Health Policy and Administration. Specific credits and add'l prereqs announced in Schedule of Classes each time course offered.

**Prerequisites:** grad st

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 781 Public Health Administration**

3 cr. Graduate.

This course introduces basic concepts, best-practice leadership, and management principles with the emphasis on organizational behavior in public health settings.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 784 Social and Economic Policy as Health Policy**

3 cr. Graduate.

This course examines how social and economic policies, including education, income re-distribution, and housing shape population health. A broad overview of the social determinants of health is introduced/reviewed and current knowledge of the impact.

**Prerequisites:** grad st; a course covering multiple regression, including PH 711(P), PH 759(P), or cons inst.

**Last Taught:** Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 785 Principles of Public Health Economics**

3 cr. Graduate.

The course introduces the application of microeconomic theories and models to explain major topics and trends in public health and health care settings.

**Prerequisites:** grad st. or cons instr

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 790 Field Experience in Public Health**

1-6 cr. Graduate.

Apply skills learned in the classroom to real world public health problems in a mentored field placement, engaging both faculty and site preceptors.

**Prerequisites:** graduate standing and completion of 18 credits, including PH 702(P) and PH 704(P), 1-2 MPH core courses, and 2-3 track courses, based on track requirements; or consent of instructor.

**Course Rules:** Repeatable to 6 cr max.

**Last Taught:** UWinterIM 2024, Fall 2023, Summer 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 791 Leadership in Public Health**

1 cr. Graduate.

Complements the Field Experience. Presentations on leadership, negotiation, and inter-professional teamwork, participation in case workshops, and written papers foster the integration of core concepts, critical thinking and reflection skills.

**Prerequisites:** graduate standing; PH 790(P) or PH 790(C); or consent of instructor.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 800 Capstone in Public Health**

2 cr. Graduate.

Application of acquired public health knowledge, experience and competencies in developing a public health project that demonstrates readiness for professional practice. Satisfactory/Unsatisfactory only.

**Prerequisites:** grad st; PH 790(P) or cons instr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 801 Seminar in Public Health Research**

3 cr. Graduate.

Immersion in interdisciplinary collaborative approaches to public health research.

**Prerequisites:** grad st; 1 course in stats/biostats and 1 course in research methods; or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 804 Advanced Epidemiology**

3 cr. Graduate.

Advanced training in epidemiological concepts, principles and methods in the context of population health and health equity.

**Prerequisites:** grad st; PH758, PH823, or cons instr**Last Taught:** Fall 2023, Fall 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 808 Writing a Federal Grant in the Public Health Sciences**

3 cr. Graduate.

This course is designed to provide students a hands-on experience with all aspects of preparation of a hypothesis driven grant application to a federal agency such as the NIH or NSF.

**Prerequisites:** grad st. admis to a PhD program.**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 811 Causal Inference**

3 cr. Graduate.

This course will cover a variety of approaches to define and estimate causal effects, as well as the sensitivity analysis for both clinical trial and observational studies.

**Prerequisites:** grad st; Mthstat 762(C) or PH 911 (C) or cons instr**Last Taught:** Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 812 Statistical Learning & Data Mining**

3 cr. Graduate.

Analysis of data using modern data mining technique.

**Prerequisites:** Grad st; MathStat 761 and PH 718; or consent of instructor**Last Taught:** Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 813 Practice of Biostatistical Consulting**

3 cr. Graduate.

This course teaches the elements of statistical consulting, appropriate statistical analysis approaches, and how to interpret findings and effectively communicate with clients.

**Prerequisites:** grad st; PH 711, PH 713, & PH 718; or cons instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 818 Statistical Computing**

3 cr. Graduate.

This course will cover the theory and application of common algorithms used in statistical computing.

**Prerequisites:** grad st; PH 711(P), MthStat 762(P), and PH 718(P) or cons inst.**Last Taught:** Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 819 Social and Environmental Justice in Public Health**

3 cr. Graduate.

Social and environmental justice perspective on public health problems and concerns.

**Prerequisites:** grad st**Course Rules:** Jointly offered w/ & counts as a repeat of Soc Wrk 819.**Last Taught:** Fall 2023, Fall 2020, Spring 2014, Spring 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 820 Maternal and Child Health Foundations, Policy and Practice**

3 cr. Graduate.

The foundations of MCH, historical context, financing, challenges, and opportunities in advancing MCH at state, national and international level including the integration of men.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 821 Advanced Survey of Environmental Health**

3 cr. Graduate.

The role of environmental factors in determining human health, and human processes that degrade this interaction.

**Prerequisites:** graduate standing.**Course Rules:** Previously EOH 821.**Last Taught:** Spring 2023, Fall 2020, Fall 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 823 Applied Analysis of Binary Outcomes in Public Health Research**

3 cr. Graduate.

Apply principles of epidemiology, statistics, and study design in analyzing a public health dataset of choice, covering confounding, modification, bias, missing data, and interpretation in light of limitations.

**Prerequisites:** PH702 (P), PH 704(P), and doctoral standing; or consent of instructor.**Last Taught:** Fall 2021, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 826 Principles of Community Intervention Research**

3 cr. Graduate.

Seminar covering classics in community-based public health research and the development of conceptual and methodological skills in community engagement.

**Prerequisites:** grad st.**Course Rules:** Counts a repeat of PH 740 with similar topic.**Last Taught:** Spring 2022, Fall 2019, Fall 2017, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**PH 827 Research Design in Community and Behavioral Health Promotion**

3 cr. Graduate.

Examination of experimental, quasi-experimental, and nonexperimental study designs, focus groups, and coding with qualitative software.

**Prerequisites:** grad st; admis to doctoral prog; PH 801(P) & 702(P) or cons instr.**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 830 Leadership and Advocacy in Maternal and Child Health**

1 cr. Graduate.

Overview of leadership, negotiation, and advocacy theory, skills, and styles in maternal and child health (MCH) and public health and their applications in policies, practice, and interventions to promote health equity.

**Prerequisites:** graduate standing enrolled in the MCH certificate program and PH 820(P); or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 831 Community Engagement and Participatory Research Approaches in Public Health**

3 cr. Graduate.

Effective approaches to engaging communities in health interventions and addressing health disparities.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 859 Racial/Ethnic Health Disparities in the United States**

3 cr. Graduate.

The course will analyze studies of racial/ethnic health disparities, with a focus to include multi-level and temporal perspectives to better understand the social context in which the determinants of racial/ethnic health are embedded.

**Prerequisites:** grad st; a course covering multiple regression, including PH 711(P), PH 759(P), or cons instr.

**Course Rules:** Counts as repeat of PH 740 w/similar topic.

**Last Taught:** Spring 2020, Spring 2019, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 864 Research Ethics in Epidemiology and Public Health**

3 cr. Graduate.

Training in research ethics and ethical analysis in the context of public health and epidemiology research. Covers all topics outlined in the NIH's Responsible Conduct of Research Training.

**Prerequisites:** grad st; PH 801(P), PH 704(P), or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 865 Critical Methodologies for Health Equity Research**

3 cr. Graduate.

Analyzes interdisciplinary critical methodologies for researching health inequities across diverse axes of power and considers how to integrate these methodologies into epidemiologic and public health research to advance health equity.

**Prerequisites:** grad st; PH 700(P), and PH 758(P) or PH 859(P), or cons instr

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 868 Epidemiologic Links Between Infectious and Chronic Disease**

3 cr. Graduate.

Discussion of social patterning of infection, epidemiologic and physiologic links between infections and chronic disease, and methodological considerations in the evaluation of such associations.

**Prerequisites:** grad st; PH702(P), PH704(P), and PH759(P) or PH711(P); or consent of instructor

**Last Taught:** Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 870 Epidemiology in Health Policy and Advocacy**

3 cr. Graduate.

Using epidemiologic evidence to inform public health policy, through engagement with the policy process, communication with policymakers, and evidence-based appraisal of policy alternatives and advocacy for sound policy.

**Prerequisites:** grad st; PH 779(P), PH804; or cons instr

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 895 Research and Thesis for MS in Biostatistics**

3 cr. Graduate.

Research and writing of the master's thesis under the supervision of the major professor.

**Prerequisites:** grad st and cons instr.

**Course Rules:** Repeatable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 904 Survey of Analytic Methods for Epidemiology**

3 cr. Graduate.

Survey of advanced analytic approaches to the conduct of epidemiologic research in the pursuit of causal inference.

**Prerequisites:** grad st; PH804 or permission of instructor.

**Last Taught:** Spring 2023, Spring 2022, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 911 Generalized Linear Models**

3 cr. Graduate.

This course will cover theory of advanced biostatistics models with focus on generalized linear models and will also cover generalized estimating equation, generalized linear mixed models. We will emphasize implementation in R.

**Prerequisites:** grad st; PH 711(P), MthStat 762(P), and PH 718(P) or cons instr.

**Last Taught:** Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 919 Core Seminar in Community and Behavioral Health Promotion**

1-3 cr. Graduate.

These seminars are intended as professional development to prepare students for successful careers in the area of Community and Health Behavior Promotion.

**Prerequisites:** Grad St

**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 960 Core Doctoral Seminar in Epidemiology**

3 cr. Graduate.

This advanced doctoral seminar discusses practical aspects of an epidemiology career, from developing a research question and study, to managing a grant, writing results and reporting results to the press.

**Prerequisites:** grad st; PH 758 (P), PH 823 (P), PH 779 (P) and PH 801(P), or cons instr

**Last Taught:** Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 990 Research and Dissertation**

1-8 cr. Graduate.

Original research in any public health discipline

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**PH 999 Independent Study**

1-3 cr. Graduate.

Independent study on a topic not available as a regular course, directed by a member of the graduate faculty.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Fall 2022, Summer 2022, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Religious Studies (RELIGST)

**RELIGST 101 Introduction to World Religions**

3 cr. Undergraduate.

Basic concepts of world religions; broad overview of various religious traditions in ancient and modern configurations.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Fall 2022, Spring 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 192 First-Year Seminar**

3 cr. Undergraduate.

Specific humanities topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 193 First-Year Seminar**

3 cr. Undergraduate.

Specific social science topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem Course (course numbers 192, 193, 194).

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 199 Independent Study**

1-3 cr. Undergraduate.

Independent work under supervision of faculty or academic staff member. For further information, consult dept chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 250 Selected Topics in Religious Studies:**

3 cr. Undergraduate.

Focus on a particular religion or religious issue.

**Prerequisites:** satisfaction of OWC-A.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**General Education Requirements:** OWCB

**Last Taught:** Fall 2019, Fall 2018, Spring 2012, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 289 Internship in Religious Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.50 gpa; cons supervising faculty member

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** One credit for 45 hours research. Retakable to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Fall 2022, Summer 2022, Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.

**Prerequisites:** none. Additional prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 350 Advanced Topics in Religious Studies:**

3 cr. Undergraduate.

Advanced study of a particular religion or religious issue.

**Prerequisites:** jr st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2017, Fall 2016, Spring 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 395 Seminar in the Study of Religion: Theories of Religion**

3 cr. Undergraduate.

Critical inquiry into the questions of and about religion: what is religion, and how do we study it?

**Prerequisites:** jr st.

**Last Taught:** Spring 2023, Spring 2020, Spring 2019, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 489 Internship in Religious Studies, Upper Division**

1-6 cr. Undergraduate.

Application of basic principles of Religious Studies in business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 2.50 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hrs in internship. Retakable to 6 cr max.

**Last Taught:** Spring 2020, Spring 2019, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** Retakable w/chg in topic.

**Last Taught:** Spring 2018, Fall 2017, Summer 2014, Summer 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st, add'l prereqs may be assigned to specific topic.

**Course Rules:** Retakable w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of ReligSt faculty or academic staff member.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2023, Spring 2022, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RELIGST 751 Religious Practices and Values in Local and Global****Communities**

3 cr. Graduate.

Religious practices and values of six major world religions are examined in order to promote understanding and cooperation within a diverse community.

**Prerequisites:** grad st.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Russian (RUSSIAN)

**RUSSIAN 101 First-Semester Russian**

5 cr. Undergraduate.

A systematic introduction to the Russian language.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 102 Second-Semester Russian**

5 cr. Undergraduate.

Continuation of Russian 101.

**Prerequisites:** Russian 101(P). Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 192 First-Year Seminar:**

3 cr. Undergraduate.

The specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2006, Spring 2006, Fall 2005.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 197 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 199 Independent Study**

1-4 cr. Undergraduate.

For further information, consult dept chair.

**Prerequisites:** soph st, 2.0 GPA, consent of instructor, and Assistant Dean for Student Academic Services.

**Last Taught:** Spring 2001, Summer 1999, Spring 1999, Fall 1998.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 201 Third-Semester Russian**

4 cr. Undergraduate.

Review of grammar; practice in speaking, reading, and translation with integrated laboratory work.

**Prerequisites:** Russian 102(P). Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 202 Fourth-Semester Russian**

4 cr. Undergraduate.

Continuation of Russian 201.

**Prerequisites:** Russian 201(P). Generates L&S credit for demonstrated equivalent preparation (12 retro cr).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 210 Russian Literacy for Native and Heritage Speakers**

4 cr. Undergraduate.

Fundamentals of written Russian for native and heritage speakers: alphabet, orthography, grammar, style. Designed to develop language skills at the level of fourth-semester Russian.

**Prerequisites:** none.

**Course Rules:** Open only to native and heritage speakers of Russian with little or no formal schooling in the former Soviet Union. Generates L&S credits for demonstrated equivalent preparation (12 retro cr).

**Last Taught:** Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 235 Survey of Nineteenth-Century Russian Literature in Translation**

3 cr. Undergraduate.

Selected major authors representing main trends.

**Prerequisites:** none.**General Education Requirements:** HU**Last Taught:** Spring 2009, Spring 2008, Spring 2006, Spring 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 236 Survey of Twentieth-Century Russian Literature in Translation**

3 cr. Undergraduate.

Selected pre- and post-revolutionary writers and movements.

**Prerequisites:** none. One course in 100-level lit-in-trans or 200-level English lit advisable.**General Education Requirements:** HU**Last Taught:** Spring 1998, Fall 1995, Fall 1990, Fall 1989.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 245 Russian Life and Culture**

3 cr. Undergraduate.

Historical survey of Russian cultural patterns: themes, influences, religion, literature, architecture, music, daily life.

**Prerequisites:** Satisfaction of OWC-A GER.**Course Rules:** No knowledge of Russian required.**General Education Requirements:** HU, OWCB**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 260 Topics in Slavic Culture:**

1 cr. Undergraduate.

Exploration of a topic related to Slavic or folklore.

**Prerequisites:** none.**Course Rules:** Counts as repeat of Russian 299 w/similar topic. May be retaken to 3 cr max.**Last Taught:** Fall 2019, Fall 2018, Spring 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 277 Russian Discussion Section:**

1-2 cr. Undergraduate.

Discussion in Russian, designed to broaden perspectives, improve language skills.

**Prerequisites:** Russian 202(P) or cons instr.**Course Rules:** Offered in conjunction w/courses in other disciplines (Anthro, Hist, Pol Sci, etc). May be retaken w/chg in topic to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 289 Internship in Russian, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Russian in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Russian; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Last Taught:** Fall 2018, Spring 2018, Fall 2011, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2021, Summer 2016, Summer 2012, Fall 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2016, Fall 2015, Spring 2006, Fall 2005.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 310 Advanced Russian Reading and Conversation:**

3 cr. Undergraduate/Graduate.

Development of advanced reading, speaking, and writing skills. Readings and films focus on Russian life and culture. Topic varies each semester.

**Prerequisites:** junior standing; RUSSIAN 202(P), RUSSIAN 210(P), or consent of instructor.**Course Rules:** May be retaken with change in topic to 9 cr max. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 310G Advanced Russian Reading and Conversation:**

3 cr. Undergraduate/Graduate.

Development of advanced reading, speaking, and writing skills. Readings and films focus on Russian life and culture. Topic varies each semester.

**Prerequisites:** junior standing; RUSSIAN 202(P), RUSSIAN 210(P), or consent of instructor.**Course Rules:** May be retaken with change in topic to 9 cr max. Generates L&S credit for demonstrated equivalent preparation (16 retro crs).**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 311 Contemporary Russian Language:**

3 cr. Undergraduate/Graduate.

Development of practical communication skills. Focus varies each semester.

**Prerequisites:** jr st; Russian 202(P), 210(P), or cons instr. Generates L&S cr for demonstrated equiv preparation (16 retro crs).**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 311G Contemporary Russian Language:**

3 cr. Undergraduate/Graduate.

Development of practical communication skills. Focus varies each semester.

**Prerequisites:** jr st; Russian 202(P), 210(P), or cons instr. Generates L&S cr for demonstrated equiv preparation (16 retro crs).**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 350 Dostoyevsky and Tolstoy in Translation: Major Works**

3 cr. Undergraduate.

Close readings of the masterworks of Tolstoy and Dostoevsky in historical context; consideration of their impact on Russian and Western art and social thought.

**Prerequisites:** jr st.**Course Rules:** No knowledge of Russian req'd.**General Education Requirements:** HU**Last Taught:** Spring 2023, Spring 2019, Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 360 Bulgakov, Pasternak and Solzhenitsyn in Translation**

3 cr. Undergraduate.

Reading and discussion of the major works of three outstanding Russian writers of the 20th century, two of them recent controversial Nobel prize winners.

**Prerequisites:** 5 crs in lit-in-trans and/or 200-level English lit courses.**General Education Requirements:** HU**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 361 Russian and Slavic Folklore**

3 cr. Undergraduate.

Folk beliefs of the past thousand years, including medieval folk epics, fairy tales, and legends; impact of ancient pagan beliefs on contemporary Slavic cultures.

**Prerequisites:** junior standing.**Course Rules:** Counts as repeat of RUSSIAN 391 with same topic, or RELIGST 361.**General Education Requirements:** HU, OWCB**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 363 Women's Influence on Russian Culture Throughout History**

3 cr. Undergraduate.

Examines women in Russian culture throughout history. We will discuss important women in various fields of Russian culture, women's role in Russian society, and how it has changed over time.

**Prerequisites:** junior standing and completion of GER OWC-A.**General Education Requirements:** OWCB**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 391 Russian Literature and Culture in Translation:**

3 cr. Undergraduate.

Topics on Russian literature and culture in their historical and cultural contexts. Influences in modern Russian culture.

**Prerequisites:** junior standing.**Course Rules:** To count toward the Russian major or minor, coursework must be done in Russian. May be retaken with change in topic to 9 cr max.**Last Taught:** Fall 2018, Fall 2016, Fall 2015, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 397 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 419 Introduction to Translation: Russian to English**

3 cr. Undergraduate.

Translation process as combination of linguistic, cultural, ethical, and logistic challenges; translation strategies for business, media, academic, legal, commercial, medical, technical, and popular culture documents.

**Prerequisites:** jr st; grade of B or better in 300-level or above Russian language course.**Last Taught:** Fall 2020, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 429 Seminar in Advanced Russian Translation: Russian to English**

3 cr. Undergraduate.

Translation of ideas and conceptual knowledge in subject areas including economics, law, society, culture, and history.

**Prerequisites:** jr st; grade of B or better in Russian 419(P).**Last Taught:** Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 489 Internship in Russian, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of Russian in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Russian; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.**Last Taught:** Spring 2018, Fall 2017, Spring 2016, Summer 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2018, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**RUSSIAN 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 1992, Spring 1987.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**RUSSIAN 597 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 597G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 697 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 697G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**RUSSIAN 699 Supervised Individual Reading**

1-6 cr. Undergraduate.

Advanced independent work under the supervision of a Slavic Lang faculty or instructional academic staff member. Students must submit a study proposal. For more information, consult Slavic Lang prog coord.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Scandinavian Studies (SCNDVST)

**SCNDVST 101 First-Semester Swedish**

4 cr. Undergraduate.

Introductory course for students who have not studied Swedish previously. Oral practice, grammar, and reading.

**Prerequisites:** none.

**Last Taught:** Fall 2018, Fall 2017, Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SCNDVST 102 Second-Semester Swedish**

4 cr. Undergraduate.

Continuation of ScndvSt 101 (German 180).

**Prerequisites:** ScndvSt 101(German 180)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (4 retro cr).

**Last Taught:** Spring 2019, Spring 2018, Spring 2016, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SCNDVST 192 First-Year Seminar.**

3 cr. Undergraduate.

Specific humanities topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** HU

**Last Taught:** Fall 2018, Fall 2017, Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SCNDVST 203 Third-Semester Swedish**

3 cr. Undergraduate.

Continuation of ScndvSt 102 (German 181).

**Prerequisites:** ScndvSt 102(German 181)(P) or equiv. Generates L&S credit for demonstrated equivalent preparation (8 retro cr).

**Last Taught:** Fall 2016, Summer 2016, Fall 2015, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SCNDVST 289 Internship in Scandinavian Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic knowledge of Scandinavian Studies in business, organizational, educational, political or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.

**Prerequisites:** jr st; 2.50 gpa; cons supervising faculty member.

**Course Rules:** May be retaken to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SCNDVST 296 UROP Apprenticeship**

1-3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff. One credit for 45 hours research.

**Prerequisites:** acceptance to UROP; prior or conc reg in UROP seminar.

**Course Rules:** May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SCNDVST 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course levels, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2018, Summer 2015, Summer 2014, Summer 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SCNDVST 332 Analysis of Swedish Texts**

3 cr. Undergraduate.

Authentic Swedish texts of different types with varied content and viewpoints. Overview of basic textual analysis skills; reading strategies; vocabulary and language skills.

**Prerequisites:** ScndvSt 204(P) or equiv; ScndvSt 331(R). Generates L&S credit for demonstrated equivalent preparation (14 retro cr).

**Last Taught:** Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SCNDVST 426 Introduction to Translation: Swedish to English**

3 cr. Undergraduate.

Basic skills for Swedish to English translation using authentic texts from a variety of fields; translation strategies and tools; issues in grammar and style.

**Prerequisites:** jr st; ScndvSt 204(P) or cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SCNDVST 489 Internship in Scandinavian Studies, Upper Division**

1-6 cr. Undergraduate.

Application of basic knowledge of Scandinavian Studies in business, organizational, educational, political, or other appropriate setting. One cr earned for academic work based on 40 hrs in internship.

**Prerequisites:** jr st; 2.50 gpa; cons supervising faculty member.**Course Rules:** May be retaken to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SCNDVST 497 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Summer 2015, Summer 2014, Summer 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SCNDVST 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept and assoc dean approval. In exceptional circumstances, can be offered in one add'l semester.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SCNDVST 699 Advanced Independent Study**

1-3 cr. Undergraduate.

Advanced level independent work under the supervision of ScndvSt faculty or academic staff member.

**Prerequisites:** jr st; 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Social Work (SOC WRK)

**SOC WRK 100 Introduction to Social Work**

3 cr. Undergraduate.

A survey course focussed on the development of human service institutions and occupations.

**Prerequisites:** none.**General Education Requirements:** SS**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 105 Orientation for Social Welfare Students**

1 cr. Undergraduate.

Prepares students to participate in UWM's educational process and to explore career choices in social welfare.

**Prerequisites:** fr st only.**Course Rules:** Counts as repeat of Soc Wrk 88. Jointly offered with & counts as repeat of Crm Jst 105.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 112 Field Observation**

1 cr. Undergraduate.

Introduction to the services of a social welfare setting through placement in an approved social service, health, law enforcement, or recreational setting. Minimum of 3 hours per week.

**Prerequisites:** soph st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 250 Human Behavior and the Social Environment**

3 cr. Undergraduate.

A survey course in normative development from conception through aging. Focus on the interaction between biological, psychological, social, and cultural forces.

**Prerequisites:** SOC WRK 100(C) or (P) and PSYCH 101(C) or (P); or special student.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 260 Case Management in Social Work**

3 cr. Undergraduate.

Introduces concepts, models, responsibilities, legal issues, and best practices in the case management role in a variety of social work settings through experiential learning.

**Prerequisites:** sophomore standing; one prior course in SOC WRK recommended.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 270 Advocacy and Empowerment**

3 cr. Undergraduate.

Civics, citizenship, and the role of government in American society. Focusing on policies and social movements from both a historical and current perspective, students will investigate their impact on social work clients.

**Prerequisites:** sophomore standing; SOC WRK 100(P), SOC WRK 250(C), and SOC WRK 260(C); POL SCI 104(R).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 291 Current Issues in Social Welfare and Social Work:**

1-3 cr. Undergraduate.

Selected current issues in Social Welfare and Social Work.

**Prerequisites:** none.**Course Rules:** May be retaken with change in topic to max of 6 cr.**Last Taught:** UWinterIM 2013, UWinterIM 2012, UWinterIM 2011, UWinterIM 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, UWinterIM 2023, UWinterIM 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 300 Aged to Perfection: Introduction to the Study of Aging**

3 cr. Undergraduate.

Interdisciplinary survey on aging.

**Prerequisites:** Satisfaction of OWC- Part A GER.

**General Education Requirements:** OWCB, SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 306 Introduction to Social Welfare Policy**

3 cr. Undergraduate.

An analysis of the relationships between poverty, welfare programs, and the society which creates and sustains them; the origins, structures, and goals of welfare programs.

**Prerequisites:** junior standing; SOC WRK 100(P), SOC WRK 250(P), and SOC WRK 270(P); or special student.

**Course Rules:** Previously SOC WRK 206.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 308 Social Work Values and Ethics**

3 cr. Undergraduate.

Provides a framework for understanding, managing, and analyzing ethical dilemmas including professional boundaries utilizing the NASW Code of Ethics and an ethical decision-making process; addresses ethical decision-making within a variety of contexts and situations.

**Prerequisites:** junior standing; SOC WRK 306(C).

**Course Rules:** Not open for credit to students with credit in SOC WRK 591: Ethical and Legal Dilemmas in Mental Health.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 310 Social Work Practice I: Individuals and Families**

3 cr. Undergraduate.

Introduction to generalist Social Work practice methods. Experiential exercises designed to provide students with basic interviewing skills.

**Prerequisites:** junior standing; SOC WRK 100(P), SOC WRK 250(P), and SOC WRK 306(C); satisfaction of OWC-A GER.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 380 Honors Seminar in Social Work:**

3 cr. Undergraduate.

A seminar in an interdisciplinary topic or on the broader implications of a faculty member's research.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** SS

**Last Taught:** Spring 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 410 Social Work Practice II: Groups**

3 cr. Undergraduate.

Introduction to social work methods as applied to small groups. Lab provides experiential exercises in group interactions, needs, and leadership roles.

**Prerequisites:** junior standing; admitted to Social Work major; satisfaction of OWC-A GER; grade of B or higher in SOC WRK 310(P); and SOC WRK 410(C).

**General Education Requirements:** OWCB

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 421 Field Education & Integrated Field Seminar I**

5 cr. Undergraduate.

1st of two consecutive semester practicum, and weekly field seminar which provides an opportunity to develop and demonstrate social work skills. 256 hours per semester.

**Prerequisites:** jr st; admis to Soc Wrk major; satisfaction of OWC-A GER;

Grade of B or better in Soc Wrk 310(P); and 410(C).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 422 Field Education & Integrated Seminar II**

5 cr. Undergraduate.

(Second of a two semester required sequence). Continuation of Soc Wrk 421.

**Prerequisites:** Grade of B or better in Soc Wrk 410(P) and Soc Wrk 421(P);

427(C).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 423 Field Education III**

5 cr. Undergraduate.

(Elective field course). Continuation of Soc Wrk 421 & 422.

**Prerequisites:** sr st; Soc Wrk 422(P), 427(P); cons Field Office.

**Last Taught:** Spring 2020, Spring 2018, Fall 2014, Fall 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 427 Social Work Practice III: Communities and Organizations**

3 cr. Undergraduate.

Introduction to social work methods as applied to community problems. Lab provides experiential exercises in community organization and other techniques of social change.

**Prerequisites:** grade of B or better in SOC WRK 410(P) and

SOC WRK 421(P); SOC WRK 422(C).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 497 Study Abroad:**

1-6 cr. Undergraduate/Graduate.

Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** UWinterIM 2024.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 497G Study Abroad:**

1-6 cr. Undergraduate/Graduate.

Variable content (subtitle is area of concentration). Designed to enroll students in UWM sponsored program before course work level, content and credits are determined and/or in specially prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic to max of 9 cr.

**Last Taught:** UWinterIM 2024.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 562 Child and Family Services**

3 cr. Undergraduate/Graduate.

Introduction to child and family welfare services, including methods for assessing needs, existing treatment techniques, and institutional support systems.

**Prerequisites:** junior standing and completion of OWC Part A; one prior course in SOC WRK recommended; or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 562G Child and Family Services**

3 cr. Undergraduate/Graduate.

Introduction to child and family welfare services, including methods for assessing needs, existing treatment techniques, and institutional support systems.

**Prerequisites:** junior standing and completion of OWC Part A; one prior course in SOC WRK recommended; or graduate standing.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 564 Social Services for the Aging**

3 cr. Undergraduate/Graduate.

Individual and societal implications of the aging process, with an emphasis upon current resources and programs for the elderly.

**Prerequisites:** junior standing and satisfaction of the Oral & Written Communication Competency (OWC-B); one prior course in SOC WRK recommended; or graduate standing.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 564G Social Services for the Aging**

3 cr. Undergraduate/Graduate.

Individual and societal implications of the aging process, with an emphasis upon current resources and programs for the elderly.

**Prerequisites:** junior standing and satisfaction of the Oral & Written Communication Competency (OWC-B); one prior course in SOC WRK recommended; or graduate standing.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 580 An Overview of Child/Youth Care**

3 cr. Undergraduate/Graduate.

Survey of skills, theories and approaches of the youth work field. Emphasis on relationship-building, interactive and developmental approaches in a variety of settings.

**Prerequisites:** jr st or cons instr.

**Course Rules:** Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.

**Last Taught:** Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 580G An Overview of Child/Youth Care**

3 cr. Undergraduate/Graduate.

Survey of skills, theories and approaches of the youth work field.

Emphasis on relationship-building, interactive and developmental approaches in a variety of settings.

**Prerequisites:** jr st or cons instr.

**Course Rules:** Ed Pol/ExcEduc/Soc Wrk 580 are jointly offered & count as repeats of each other.

**Last Taught:** Fall 2016, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 581 Youth Work Practice**

3 cr. Undergraduate/Graduate.

Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.

**Prerequisites:** jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.

**Course Rules:** Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other.

**Last Taught:** Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 581G Youth Work Practice**

3 cr. Undergraduate/Graduate.

Applies the skills, theories and approaches of the youth work field to settings such as schools, community centers, and residential programs.

**Prerequisites:** jr st; Ed Pol/Soc Wrk 580(P); or grad st or cons instr.

**Course Rules:** Ed Pol/Soc Wrk 581 are jointly offered & count as repeats of each other.

**Last Taught:** Spring 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 591 Special Topics: Social Welfare and Social Work:**

1-3 cr. Undergraduate.

Selected topics in social welfare and social work. Specific credits and additional prerequisites announced in Schedule of Classes whenever course is offered.

**Prerequisites:** junior standing and completion of English competency; one prior course in SOC WRK recommended.

**Course Rules:** May be retaken with change in topic 6 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 592 Independent Research**

1-3 cr. Undergraduate.

Participation in an independent research project under faculty supervision.

**Prerequisites:** jr st; satisfy English competency; GER math requirement; 2.5 gpa; Soc Wrk 662(P), writ cons instr & dir Soc Wrk prog.

**Course Rules:** May be retaken to max of 6 cr.

**Last Taught:** Summer 2015, Spring 2012, Spring 2011, Spring 2010.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 599 Independent Reading**

1-3 cr. Undergraduate.

Intensive readings in fields related to student's preparation and training, under the supervision of a faculty member.

**Prerequisites:** sr st; satisfy English competency; 2.5 gpa; writ cons instr & dir Soc Wrk Prog.

**Course Rules:** May be retaken to 6 cr max.

**Last Taught:** Summer 2023, Spring 2021, Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 604 Social Systems and Social Work Practice**

3 cr. Undergraduate/Graduate.

Analysis of organizations, community and social institutions and the impact they have on human behavior and how they provide the social context of social work practice.

**Prerequisites:** jr st; admis to Soc Wrk major, Soc Wrk 310(P); or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 604G Social Systems and Social Work Practice**

3 cr. Undergraduate/Graduate.

Analysis of organizations, community and social institutions and the impact they have on human behavior and how they provide the social context of social work practice.

**Prerequisites:** jr st; admis to Soc Wrk major, Soc Wrk 310(P); or grad st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 630 Families and Poverty**

3 cr. Undergraduate/Graduate.

Description of families in poverty and analysis of historical and contemporary national and state policies aimed at reducing poverty.

**Prerequisites:** junior standing; one prior course in SOC WRK recommended.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 630G Families and Poverty**

3 cr. Undergraduate/Graduate.

Description of families in poverty and analysis of historical and contemporary national and state policies aimed at reducing poverty.

**Prerequisites:** junior standing; one prior course in SOC WRK recommended.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 650 Social Welfare and the Law**

2 cr. Undergraduate/Graduate.

Collaborative principles of social work and the legal profession. Selected concepts and principles of legal and social provision for protection of family, children and adults.

**Prerequisites:** jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 650G Social Welfare and the Law**

2 cr. Undergraduate/Graduate.

Collaborative principles of social work and the legal profession. Selected concepts and principles of legal and social provision for protection of family, children and adults.

**Prerequisites:** jr st, satisfy English competency, one prior course in Soc Wrk recom; or grad st.

**Last Taught:** Fall 2015, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 662 Methods of Social Welfare Research**

3 cr. Undergraduate/Graduate.

Analyze methods of social welfare research and problems in project design and programming. Characteristics of investigations directed to planning, administrative, practice, and scientific objectives.

**Prerequisites:** jr st, admis to Soc Wrk major, satisfaction of QL-A GER, Soc Wrk 100(P), 206(P), & 250(P); or grad st.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 662G Methods of Social Welfare Research**

3 cr. Undergraduate/Graduate.

Analyze methods of social welfare research and problems in project design and programming. Characteristics of investigations directed to planning, administrative, practice, and scientific objectives.

**Prerequisites:** jr st, admis to Soc Wrk major, satisfaction of QL-A GER, Soc Wrk 100(P), 206(P), & 250(P); or grad st.

**General Education Requirements:** QLB

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 665 Cultural Diversity and Social Work**

3 cr. Undergraduate/Graduate.

Emphasis on culture, race and ethnicity, theories of prejudice, and racial minority groups, and the politics of human services in multicultural society.

**Prerequisites:** jr st, admis to Soc Wrk major, satisfy English competency, Soc Wrk 100(P), 206(P), 250(350)(P); or grad st.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 665G Cultural Diversity and Social Work**

3 cr. Undergraduate/Graduate.

Emphasis on culture, race and ethnicity, theories of prejudice, and racial minority groups, and the politics of human services in multicultural society.

**Prerequisites:** jr st, admis to Soc Wrk major, satisfy English competency, Soc Wrk 100(P), 206(P), 250(350)(P); or grad st.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 680 Death and Dying**

3 cr. Undergraduate/Graduate.

Focus on multiple perspectives on death, dying, and bereavement; roles and skills for social workers and other helpers about end-of-life issues.

**Prerequisites:** jr st; or grad st.

**Course Rules:** Counts as repeat of Soc Wrk 591 & 791 with same topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 680G Death and Dying**

3 cr. Undergraduate/Graduate.

Focus on multiple perspectives on death, dying, and bereavement; roles and skills for social workers and other helpers about end-of-life issues.

**Prerequisites:** jr st; or grad st.

**Course Rules:** Counts as repeat of Soc Wrk 591 & 791 with same topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 685 Social Gerontology**

3 cr. Undergraduate/Graduate.

Exploration of individual aging experiences and interaction with social structures and social systems.

**Prerequisites:** jr st and one prior course in Soc Wrk recom; or grad st.**Course Rules:** Counts as repeat of Soc Wrk 591 & 791 with the same topic.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 685G Social Gerontology**

3 cr. Undergraduate/Graduate.

Exploration of individual aging experiences and interaction with social structures and social systems.

**Prerequisites:** jr st and one prior course in Soc Wrk recom; or grad st.**Course Rules:** Counts as repeat of Soc Wrk 591 & 791 with the same topic.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 690 Mindfulness and Community Building**

3 cr. Undergraduate/Graduate.

Seminar for upper level undergraduate and graduate students that offers didactic and experiential insights into trauma-informed care, community building and mindfulness.

**Prerequisites:** junior standing or graduate standing.**Course Rules:** Counts as a repeat of SOC WRK 591 or SOC WRK 791 with the same topic or "Community Building" topic.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 690G Mindfulness and Community Building**

3 cr. Undergraduate/Graduate.

Seminar for upper level undergraduate and graduate students that offers didactic and experiential insights into trauma-informed care, community building and mindfulness.

**Prerequisites:** junior standing or graduate standing.**Course Rules:** Counts as a repeat of SOC WRK 591 or SOC WRK 791 with the same topic or "Community Building" topic.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 691 Practice Methods in Social Work:**

1-3 cr. Undergraduate/Graduate.

Topics focused on Social Work practice methods. Specific topics and credits to be announced in Schedule of Classes.

**Prerequisites:** jr st.**Course Rules:** May be retaken with change in topic to max of 6 cr.**Last Taught:** Spring 2016, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 691G Practice Methods in Social Work:**

1-3 cr. Undergraduate/Graduate.

Topics focused on Social Work practice methods. Specific topics and credits to be announced in Schedule of Classes.

**Prerequisites:** jr st.**Course Rules:** May be retaken with change in topic to max of 6 cr.**Last Taught:** Spring 2016, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 705 Individual Behavior and Social Welfare**

3 cr. Graduate.

The development and behavior of individuals in interaction with their social contexts; implications for social welfare.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 708 Social Work Methods I: Individuals and Families**

3 cr. Graduate.

Introduction to generalist social work practice with individuals and families, with emphasis on integration of theory and knowledge with professional practice.

**Prerequisites:** grad st; admis to MSW**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 709 Social Work Methods II: Groups, Organizations and Communities**

3 cr. Graduate.

Introduction to generalist social work practice with groups, organizations and communities, with emphasis on integration of theory and knowledge with professional practice.

**Prerequisites:** graduate standing in MSW program and SOC WRK 708(C).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 711 Direct Social Work Practice I**

3 cr. Graduate.

Methods of social work intervention employed in helping individuals, families and small groups. Addresses personal, interpersonal, environmental and resource issues with emphasis on interviewing, assessing, contracting and goal setting.

**Prerequisites:** graduate standing, SOC WRK 708(P), SOC WRK 709(P), and SOC WRK 722(C); SOC WRK 710(P); or BSW degree.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 712 Advanced Practice and Leadership in Organizations and Communities**

3 cr. Graduate.

Designing and implementing innovations with human service task groups, organizations and communities. Leadership practices that promote equity, diversity, and inclusion will be emphasized. Fiscal management, supervision and grant-writing skills will be developed.

**Prerequisites:** graduate standing; MSW Program Advanced Standing; SOC WRK 604(P) and SOC WRK 709(P) or approved exemption equivalents for each by MSW Program Coordinator.**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 713 Community Organization, Planning and Human Service Administration I**

3 cr. Graduate.

Knowledge and skill development in the activities, roles, styles, and ethical issues in community and administrative practice. Emphasis on needs assessment, planning methodologies, and change efforts.

**Prerequisites:** grad st; Soc Wrk 708 & 709(710) or BSW degree.**Last Taught:** Fall 2021, Fall 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 718 Introduction to SAS Programming**

3 cr. Graduate.

Fundamental instruction in programming, data management and exploratory data analysis using SAS software.

**Prerequisites:** grad st**Last Taught:** Fall 2019, Fall 2018, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 719 Advanced SAS Programming**

3 cr. Graduate.

Advanced instruction in programming, data management, and exploratory data analysis using SAS software.

**Prerequisites:** grad st; Soc Wrk 718(P) or cons instr**Last Taught:** Spring 2019, Spring 2017, Spring 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 721 Field Instruction I**

3 cr. Graduate.

Supervised social work practice in a social agency.

**Prerequisites:** grad st; Soc Wrk 710(P) or 708(P); 709(C) or 711(C).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 722 Field Instruction II**

3 cr. Graduate.

Supervised social work practice in a social agency.

**Prerequisites:** grad st; Soc Wrk 721(P) or BSW degree; Soc Wrk 713(C) or 711(C).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 750 Social Welfare Policy Development and Implementation**

3 cr. Graduate.

Examination of policy development, implementation, and models of analysis that describe and provide analytical guides for determining the efficacy of public policy in addressing human needs.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 753 Adult Psychopathology**

3 cr. Graduate.

Mental disorders and their implications for the social work profession, including assessment, intervention and prevention issues.

**Prerequisites:** grad st; Soc Wrk 705(P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 754 Child and Adolescent Psychopathology**

3 cr. Graduate.

Mental and behavioral disorders of children and adolescents and their implications for the social work profession, including assessment, intervention and prevention issues.

**Prerequisites:** graduate standing and SOC WRK 705(P).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 765 Social Work Boundaries and Ethics in Professional Practice**

2-3 cr. Graduate.

Ethical issues faced by social work practitioners in professional practice. Topics include NASW Code of Ethics, boundary issues, ethical dilemmas, and risk management.

**Prerequisites:** grad st.**Last Taught:** Spring 2022, Spring 2020, Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 771 Development of the Family Over the Life Span**

3 cr. Graduate.

The family as a social system as it engages in various developmental tasks throughout the life cycle and in interaction with the social context; social work implications of relevant theories and research.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 774 Trauma Counseling I: Theory and Research**

3 cr. Graduate.

Seminar examining impact of trauma experience on individuals, groups and communities following a catastrophic event. Explores traumatic events, mental injuries and impact on memory, learning, physical health and dysfunctional behavior.

**Prerequisites:** grad st**Course Rules:** Couns 774, Nurs 774, OccThpy 774, and Soc Wrk 774 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 775 Trauma Counseling II: Diagnosis and Treatment**

3 cr. Graduate.

Seminar on diagnosis and assessment instruments as well as intervention and therapeutic techniques used to address trauma issues in counseling acute and chronic traumatized clients.

**Prerequisites:** graduate standing, COUNS 744(P), NURS 775(P), OCCTHPY 774(P) or SOC WRK 774(P); or consent of instructor.**Course Rules:** COUNS 775, NURS 775, OCCTHPY 775, and SOC WRK 775 are jointly offered and count as repeats of one another.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 791 Current Topics in Social Work:**

1-3 cr. Graduate.

Variable content course with specific topics to be announced in schedule of classes.

**Prerequisites:** graduate standing.**Course Rules:** May be repeated with change in topic to 9 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 793 Evaluation of Practice**

2 cr. Graduate.

Advanced problems and methods of research in social work practice.

**Prerequisites:** grad st; Soc Wrk 662(P) or equiv; Soc Wrk 721(C) or 722(C).**Last Taught:** Summer 2022, Spring 2022, Fall 2021, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 794 Evaluation of Programs**

2 cr. Graduate.

Provides students with the skills and knowledge base necessary to understand the program evaluation process as it applies to social welfare programs.

**Prerequisites:** grad st.**Last Taught:** Summer 2022, Spring 2022, Fall 2021, Summer 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 795 Evaluation of Social Work Practice and Programs**

3 cr. Graduate.

Advanced knowledge and skills in evaluating individual social work practice and evaluating human service programs. Students learn various, practical research methods for evaluating social work practice and programs.

**Prerequisites:** graduate standing, SOC WRK 662(P) or equivalent exemption by MSW Program Coordinator.**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 811 Direct Social Work Practice II:**

3 cr. Graduate.

A continuation of methods of social work intervention, with sections tailored to specialized concentration areas: gerontology, family and child welfare, and behavioral and physical health. Emphasis is on selection and implementation of appropriate intervention plans.

**Prerequisites:** grad st; Soc Wrk 711(P); 722(C).**Course Rules:** Repeatable with change in topic to 6 credit max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 813 Financial Management and Planning in Human Services**

2 cr. Graduate.

This course is designed to facilitate and understanding of selected areas of planning and management in human services with an emphasis on resource development and financial management.

**Prerequisites:** grad st; Soc Wrk 713(C) & 915(C) or cons reg; cons instr.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 818 Treatment of Co-Occurring Disorders**

3 cr. Graduate.

Knowledge on assessment and treatment strategies with substance misuse and mental health issues, along with research on etiology and best practices for addressing co-occurring disorders.

**Prerequisites:** grad st; Soc Wrk 711(P) or 713(P)**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 819 Social and Environmental Justice in Public Health**

3 cr. Graduate.

Social and environmental justice perspective on public health problems and concerns.

**Prerequisites:** grad st.**Course Rules:** Jointly offered w/ & counts as a repeat of PH 819.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 820 Seminar in Social Work Practice:**

3 cr. Graduate.

Critical examination of varied and specialized methodologies with emphasis on new professional directions, interdisciplinary coordination and integration of professional practice with behavioral sciences, research, and policy concerns.

**Prerequisites:** graduate standing and SOC WRK 711(P) or SOC WRK 713(P).**Course Rules:** May be repeated with change in topic to max of 12 cr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 821 Field Instruction III**

3-4 cr. Graduate.

Second-year supervised social work practice in a social agency.

**Prerequisites:** grad st; SOC WRK 811(C) or SOC WRK 915(C); SOC WRK 722(P); SOC WRK 711(P) or SOC WRK 713(P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 822 Field Instruction IV**

3-4 cr. Graduate.

Advanced second-year supervised social work practice in a social agency with emphasis on integration of professional practice with methodology, behavioral sciences, research and policy concerns.

**Prerequisites:** grad st; SOC WRK 821(P).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 823 Coordinated Public Health and Social Work Field Education**

3 cr. Graduate.

Supervised social work and public health practice in an agency specially identified to provide both a professional social work and public health perspective. Integrate skills to real world social work and public health problems.

**Prerequisites:** graduate standing, Coordinated Public Health MPH/Social Work MSW student, SOC WRK 722(P), PH 701(P), PH 702(P), PH 703(P), PH 704(P), PH 705(P), PH 706(P), and PH 707(P); or consent of instructor**Course Rules:** May be retaken to 9 cr max.**Last Taught:** Fall 2023, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 830 Intervention Strategies for Correctional Clients**

3 cr. Graduate.

A review and analysis of intervention approaches and programs used with correctional clients, both juvenile and adult, with emphasis on diversion, prevention, and rehabilitation strategies.

**Prerequisites:** grad st.**Last Taught:** Fall 1995, Fall 1991, Spring 1990, Fall 1988.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 831 Models of Family Therapy**

2 cr. Graduate.

Introduction to the major family therapy approaches, including assessment and intervention techniques for each. Models include systemic, structural, strategic, interactional and multigenerational.

**Prerequisites:** grad st; Soc Wrk 811 or conc reg.**Last Taught:** Fall 2013, Fall 2012, Fall 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**SOC WRK 832 Social Work Practice with Couples**

2 cr. Graduate.

Intensive examination of varied methodologies to effect therapeutic change in couples. Includes assessing couples' interactional patterns and formulating therapeutic strategies.

**Prerequisites:** grad st; Soc Wrk 811 or conc reg; cons instr.**Last Taught:** Spring 2013, Spring 2012, Spring 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 851 Social Issue and Policy Analysis:**

2-3 cr. Graduate.

Advanced level analysis of the relationship between selected problem areas, policy development and service system.

**Prerequisites:** grad st; Soc Wrk 750(P) or BSW degree.**Course Rules:** May be repeated with change in topic to max of 9 cr.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 855 Practice Skills and Concepts for Aging and Health**

3 cr. Graduate.

Intensive examination of the concepts and skills needed for effective practice with the aging population. Focus is on competency development in assessment and intervention planning from micro, mezzo, and macro perspectives.

**Prerequisites:** grad st; SOC WRK 705(P) or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.**Last Taught:** Summer 2021, Fall 2019, Fall 2016, Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 901 Philosophy of Science**

3 cr. Graduate.

Analyzes philosophical foundations of science, knowledge building processes, and the scope and nature of knowledge, emphasizing applications for the social and behavioral sciences.

**Prerequisites:** grad st; admis to the Soc Wrk Ph.D. program or written cons instr.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 915 Human Services Administration II**

3 cr. Graduate.

The role of the professional in the human services administrative organization, focusing on interpersonal relationships in supervision, evaluation and leadership.

**Prerequisites:** grad st; Soc Wrk 713; 722 or conc reg.**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 921 Field Instruction V**

1-4 cr. Graduate.

Optional advanced supervised social work practice in a social agency.

**Prerequisites:** grad st; SOC WRK 822 (P).**Course Rules:** May be retaken to 12 cr max.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 931 Theories of Poverty and Social Welfare Policy**

3 cr. Graduate.

Analyzes anti-poverty policies/programs, populations at risk, poverty dynamics, poverty-rate trends, circumstances of the poor, poverty etiology and government roles in income redistribution and social change.

**Prerequisites:** grad st; admis to the Social Work Ph.D. program or written cons instr**Last Taught:** Spring 2012, Spring 2010, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 932 Theories and Research on Behavior Change**

3 cr. Graduate.

Theory and research of individual change from a social work perspective using classic to recent models, with application to diverse populations.

**Prerequisites:** grad st; admis to the Soc Wrk Ph.D. program or written cons instr.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 945 Family and Long-Term Care Across the Life Course**

3 cr. Graduate.

Seminar on the family role in the provision of long term care within the context of kinship care, and care of persons with chronic illnesses, developmental and adult disabilities.

**Prerequisites:** grad st; admis to the Soc Wrk Ph.D. prog or writ cons instr.**Last Taught:** Spring 2013, Spring 2011, Fall 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 950 Systematic Reviews and Meta-Analysis**

3 cr. Graduate.

Introduces methods for conducting research synthesis of intervention studies using systematic reviews and meta-analysis, including the processes of problem formulation, data collection, data evaluation, data analysis, and interpretation of findings.

**Prerequisites:** doctoral student with graduate level research methods and statistics course such as ED PSYCH 725 or equivalent; or master's-level student with consent of instructor.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOC WRK 951 Quantitative Research Methods**

3 cr. Graduate.

An in-depth, hands-on review of experimental, quasi-experimental, and non-experimental approaches to the design and implementation of quantitative research studies.

**Prerequisites:** grad st; admis to the Social Work Ph.D. Program or written cons instr**Last Taught:** Spring 2021, Spring 2019, Spring 2016, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 952 Qualitative Research Methods in Social Work**

3 cr. Graduate.

Seminar on the philosophical and methodological issues of qualitative research. Students will conduct exploratory original field research and produce a research proposal based on their findings.

**Prerequisites:** grad st; admis to the Soc Wrk Ph.D. prog or writ cons instr.

**Last Taught:** Spring 2015, Spring 2013, Spring 2011, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 961 Introduction to Statistical Methods**

4 cr. Graduate.

Reviews basic parametric and nonparametric tests, including descriptive statistics, correlation, basic inferential statistics, one- and two-way ANOVA, OLS regression, nonparametric statistics, and handling missing data.

**Prerequisites:** grad st; admis to the Social Work Ph.D. program or written cons instr

**Last Taught:** Fall 2020, Fall 2019, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 962 Applied Multiple Regression Analysis**

3 cr. Graduate.

Multiple regression analysis concentrating on OLS regression techniques but also covering logistic and Poisson regression.

**Prerequisites:** grad st; admis to the Social Work Ph.D. program or written cons instr.

**Last Taught:** Spring 2021, Spring 2020, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 963 Measurement Methods and Related Multivariate Statistics**

3 cr. Graduate.

Survey of concepts and applications of Classical True Score and Item Response Theory and multivariate statistical methods relevant to test evaluation and construction.

**Prerequisites:** grad st; SocWrk 961(P) & 962(P); admis to the Soc Wrk Ph.D. program or written cons instr.

**Last Taught:** Fall 2020, Fall 2018, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 964 Advanced Statistical Methods**

3 cr. Graduate.

Covers multivariate statistical procedures, including MANOVA, MANCOVA, canonical correlation and discriminant function analysis, Poisson regression, survival analysis, multilevel modeling, and analysis of longitudinal data.

**Prerequisites:** grad st; admis to the Soc Wrk Ph.D. program or written cons instr.

**Last Taught:** Spring 2010, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 970 Independent Research**

1-4 cr. Graduate.

Participation in an independent research project under faculty supervision.

**Prerequisites:** grad st; cons instr; Soc Wrk 662(P)

**Course Rules:** Students shall not take more than 6 cr total between courses Soc Wrk 970(P) & 999(P).

**Last Taught:** Summer 2017, Fall 2015, Fall 2014, Summer 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 990 Doctoral Research**

1-12 cr. Graduate.

Research connected with dissertation.

**Prerequisites:** grad st. & admis to candidacy for Ph.D. degree.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 991 Doctoral Proseminar**

1 cr. Graduate.

Variable content course with specific topics to be announced in schedule of classes.

**Prerequisites:** grad st; admis to the Social Work Ph.D. Program or written cons instr

**Course Rules:** May be repeated with change in topic to 6 cr max.

**Last Taught:** Fall 2023, Fall 2021, Spring 2021, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOC WRK 999 Independent Reading in Social Work**

1-3 cr. Graduate.

Work suited to individual graduate students arranged.

**Prerequisites:** grad st; completion of foundation courses for non-BSW students; writ cons instr & dir of Soc Wrk prog.

**Course Rules:** Students shall not take more than 6 cr total between courses Soc Wrk 970(P) & 999(P).

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Sociology (SOCIOL)

**SOCIOL 101 Introduction to Sociology**

3 cr. Undergraduate.

Sociology as a special field of social science. The relationship of the work of the sociologist to contemporary society; an examination of the sociological perspective.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 102 Solving Social Problems**

3 cr. Undergraduate.

Examines problems relating to social inequality, troubled institutions, social control and social change. Explains how sociological theories can address these problems and improve communities.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 103 World Society**

3 cr. Undergraduate.

Demographic and development trends related to political, economic, and eco-systems. Policy options and strategies regarding population growth, economic development, and selected institutional issues.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 104 Introduction to Social Psychology**

3 cr. Undergraduate.

An introduction to sociological social psychology, emphasizing such topics as the nature of self, identity, socialization, various aspects of social interaction, and dynamics of group behavior.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 199 Independent Study**

1-3 cr. Undergraduate.

For further information, consult department chair.

**Prerequisites:** 2.0 GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.

**Course Rules:** May be retaken with change in topic to 6 credits max.

**Last Taught:** Spring 2018, Spring 2015, Spring 2014, Fall 2004.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 207 Work and Society**

3 cr. Undergraduate.

The sociology of work; changes in the structure of work. Theory and research on work settings: occupations, professions, housework, work subterranean. The future of work.

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**General Education Requirements:** SS

**Last Taught:** Spring 2022, Spring 2012, Fall 2011, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 224 Race and Ethnicity in the United States**

3 cr. Undergraduate.

Examines racial and ethnic relations in the U.S. in historical and contemporary contexts. Addresses racial inequality and American institutions (such as education, employment, healthcare, criminal justice, housing, and the environment).

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**General Education Requirements:** CD, SS

**Last Taught:** Summer 2023, Fall 2022, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 233 Social Inequality in the United States**

3 cr. Undergraduate.

A survey of intersecting inequalities, examining race, class, gender, sexuality, age, disability, and other identities. Introduction to competing stratification theories.

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**General Education Requirements:** SS

**Last Taught:** Summer 2022, Spring 2022, Fall 2021, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 235 Social Change in the Global Economy**

3 cr. Undergraduate.

Global nature of contemporary economic and social change; local dimensions of globalization, economic integration, dislocation, transnationalization, popular resistance, and backlash.

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**General Education Requirements:** SS

**Last Taught:** Fall 2018, Fall 2017, Spring 2014, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 241 Criminology**

3 cr. Undergraduate.

Analysis of competing perspectives on crime, with reference to the behavior of those who define, engage in, or become the victim of criminal behavior.

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 246 Juvenile Delinquency**

3 cr. Undergraduate.

Study of personal and social determinants of juvenile delinquency and agencies for its control, treatment, and prevention.

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**General Education Requirements:** SS

**Last Taught:** Fall 2022, Spring 2021, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 248 Sociology of Education**

3 cr. Undergraduate.

Social structure of the contemporary schooling system in the United States. Topics include social class membership and education outcomes; school desegregation; high school attrition.

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2018, Summer 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 250 Sex and Gender**

3 cr. Undergraduate.

The study of gendered behavior and gender inequality; the social construction of gender; the impact of changing work and family roles on gendered experiences; sociological understandings of sex and gender diversity.

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**General Education Requirements:** SS

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 255 Sociology of Sexuality**

3 cr. Undergraduate.

The social construction of sexuality, the social history of sexual arrangements, and contemporary sexual theory and practice.

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOLOGY course; or consent of the instructor. Open to special students.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 260 Blood, Sex, Money, Power: Families and Intimate Relationships**

3 cr. Undergraduate.

The social forces that shape inequality within, and the formation and maintenance of, marriage and other intimate relationships across diverse groups.

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOLOGY course; or consent of the instructor. Open to special students.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2022, Fall 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 261 Introduction to Statistical Thinking in Sociology**

3 cr. Undergraduate.

Introduction to basic statistical concepts and procedures and their selected application to sociological data. Covers both descriptive and inferential statistics.

**Prerequisites:** sophomore standing or higher or completion of a prior SOCIOLOGY course; and satisfaction of GER Quantitative Literacy Part A requirement; or consent of instructor. Open to special students.

**General Education Requirements:** QL B

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 282 Sociology of Aging**

3 cr. Undergraduate.

Introduction to social gerontology; examination of the social dynamics and institutional contexts of aging in modern society.

**Prerequisites:** sophomore standing or higher; or completion of a prior SOCIOLOGY course; or consent of the instructor. Open to special students.

**General Education Requirements:** SS

**Last Taught:** Fall 2017, Spring 2016, Spring 2015, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 289 Internship in Sociology, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Sociology in a business, organizational, educational, political or other appropriate setting.

**Prerequisites:** sophomore standing or higher, or completion of a prior SOCIOLOGY course; and 2.25 gpa or better; and consent of supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2020, Spring 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** acceptance for Study Abroad Program and department consent.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Summer 2023, Fall 2022, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; additional prerequisites may be assigned to specific topic.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 1995, Spring 1990, Fall 1989, Spring 1989.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 302 Professional Development for Social Science Majors**

1 cr. Undergraduate.

Examination of the social forces that shape contemporary employment and job seeking experiences; learning to identify and describe the knowledge and skills they are acquiring as social science majors/minors.

**Prerequisites:** sophomore standing and declared or intended major or minor in anthropology, communication, economics, geography, political science, psychology, sociology, urban studies, women's and gender studies; or consent of instructor.

**Course Rules:** Previously SOCIOLOGY 202.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 304 Political Sociology**

3 cr. Undergraduate.

Examination of structural and cultural factors as related to the nature of political systems; consideration of the organization and roles of political and para-political groups.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOLOGY course; or consent of the instructor. Open to special students.

**Last Taught:** Fall 2022, Summer 2022, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 321 Contemporary Issues of the American Indian**

3 cr. Undergraduate.

Development of the institutional structure of American Indian affairs; current economic and social problems, contemporary manifestations of American Indian spirit, e.g. activism and cultural experiences.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOLOGY course; or consent of the instructor. Open to special students.

**Course Rules:** AIS 321 and SOCIOLOGY 321 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2018, Spring 2011, Spring 2010, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 323 Perspectives on Latino Communities**

3 cr. Undergraduate.

Sociological analysis of the experiences of Latinos. Examination of immigration and mode of incorporation from theoretical perspectives. Emphasis on Chicanos, Cubans, and Puerto Ricans.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Course Rules:** LATINX 323 and SOCIOL 323 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 324 Race and Ethnicity in Global Contexts**

3 cr. Undergraduate.

Analysis of racial and ethnic relations in historical and cross-cultural perspective. Origin, persistence, adaptation, and change in patterns of racial and ethnic relations in various world societies.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Last Taught:** Spring 2023, Spring 2022, Summer 2021, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 325 Social Change**

3 cr. Undergraduate.

Study of change in society; integration and various theories of social change; examination of contemporary instances of social change.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Last Taught:** Spring 2022, Fall 2021, Summer 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 327 Data, Technology, and Society**

3 cr. Undergraduate.

Examines the social implications of new and emerging technology, the diffusion of data and technology into practice, and the ways that data, technology, and society interact to reshape social relations and institutions.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Last Taught:** Fall 2022, Spring 2018, Fall 2017, Summer 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 328 Science in Society**

3 cr. Undergraduate.

Comprehensive overview of social scientific approaches to understanding science in society. Topics covered include science studies, science communication, public understanding of science, and science as culture.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Course Rules:** Counts as a repeat of SOCIOL 495 with similar topic.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 330 Economy and Society**

3 cr. Undergraduate.

The sociological perspective applied to economic phenomena, including production, distribution, consumption, exchanges of goods, a country's economic development, and global market.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 331 Sociology of Health Care**

3 cr. Undergraduate.

Cultural, social, and social-psychological factors in disease processes; distribution of disease; social definitions of illness; organization of health professions and health facilities.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Last Taught:** Summer 2022, Spring 2022, Fall 2018, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 338 Small Groups**

3 cr. Undergraduate.

Defining structure and functions of the group. Developing understanding of group processes. Recognizing and defining leadership, cliques and factions.

**Prerequisites:** Junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Last Taught:** Spring 2020, Fall 2018, Fall 2016, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 341 Sociology of Deviant Behavior**

3 cr. Undergraduate.

Analysis of the ways in which deviant behavior is socially constructed, individuals are labeled and stigmatized as deviants, and mechanisms of social control are activated or challenged.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Last Taught:** Fall 2022, Spring 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 342 Sociology of Law**

3 cr. Undergraduate.

Examination of law as a social institution, the functions of law, evolution of legal systems, law and other social institutions, the legal profession.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Last Taught:** Spring 2023, Spring 2020, Spring 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 343 Collective Behavior**

3 cr. Undergraduate.

Dynamic aspects of social and institutional change. The breakdown and transformation of the social system through cultural drift, collectivities, and social movements. Recruitment, ideology, and leadership.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course; or consent of the instructor. Open to special students.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 350 Environmental Sociology**

3 cr. Undergraduate.

Sociological analysis of the interaction between humans, their artifacts, and the natural environment.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOLOGY course; or consent of the instructor. Open to special students.**Last Taught:** Summer 2023, Spring 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 352 Social Networks**

3 cr. Undergraduate.

Introduction to the basic principles and methods of social network analysis; applications and methods that social scientists use to understand the structure and implications of social networks.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOLOGY course; or consent of the instructor. Open to special students.**Last Taught:** Spring 2023, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 361 Research Methods in Sociology**

3 cr. Undergraduate.

Scientific methods in the analysis of society, procedures in problem definition, hypotheses/construction, and collection, and evaluation of data.

**Prerequisites:** junior standing or higher, completion of six credits in SOCIOLOGY, and SOCIOLOGY 261(P) or other approved statistics course; or consent of the instructor. Open to special students.**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 375 Social Theory**

3 cr. Undergraduate.

Covers major historical and contemporary works of social thought.

**Prerequisites:** junior standing or higher and completion of six credits in SOCIOLOGY; or consent of instructor. Open to special students.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 376 Modern Sociological Theory**

3 cr. Undergraduate.

Major theoretical paradigms including functionalism, conflict and dialectical models, exchange theory, symbolic interactionism, and social phenomenology.

**Prerequisites:** SOCIOLOGY 375(P). Open to special students.**Last Taught:** Summer 2020, Spring 2020, Summer 2019, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 377 Urbanism and Urbanization**

3 cr. Undergraduate.

Theoretical perspectives, substantive themes, and methodological approaches to the study of cities. Impact of historical development and changing spatial patterns on social behavior in metropolitan areas.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOLOGY course or URB STD 250(P). Open to special students.**Course Rules:** SOCIOLOGY 377 and URB STD 377 are jointly-offered and count as repeats of one another.**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 380 Honors Seminar:**

3 cr. Undergraduate.

Selected topics in sociology.

**Prerequisites:** sophomore standing or above and admission to Honors College.**Course Rules:** May be retaken with change in topic to 9 cr max.**General Education Requirements:** SS**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 399 Independent Study-Upper Division**

1-3 cr. Undergraduate.

Independent work in specific areas of sociology under supervision.

**Prerequisites:** junior standing; 2.5 GPA; written consent of the instructor, department chair, and assistant dean for SAS.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Spring 2021, Summer 2020, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 442 The Work-Family Intersection**

3 cr. Undergraduate/Graduate.

Social forces shaping work and family patterns and ideologies; implications of social change for employers, workers, and families; survey of work-family policies.

**Prerequisites:** jr st; 6 cr 200-level or above Sociol.**Course Rules:** No cr for students w/cr in Sociol 495 w/similar topic.**Last Taught:** Spring 2019, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 442G The Work-Family Intersection**

3 cr. Undergraduate/Graduate.

Social forces shaping work and family patterns and ideologies; implications of social change for employers, workers, and families; survey of work-family policies.

**Prerequisites:** jr st; 6 cr 200-level or above Sociol.**Course Rules:** No cr for students w/cr in Sociol 495 w/similar topic.**Last Taught:** Spring 2019, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 443 Organizations, Occupations, and Professions**

3 cr. Undergraduate/Graduate.

Development of occupations and professions in industrial societies.

Study of professional concepts, ethical codes, work norms, specialization, recruitment, education, and work roles in an organizational context.

**Prerequisites:** junior standing; a 100-level Sociology course; or consent of instructor; or graduate standing.**Last Taught:** Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOLOGY 443G Organizations, Occupations, and Professions**

3 cr. Undergraduate/Graduate.

Development of occupations and professions in industrial societies.

Study of professional concepts, ethical codes, work norms, specialization, recruitment, education, and work roles in an organizational context.

**Prerequisites:** junior standing; a 100-level Sociology course; or consent of instructor; or graduate standing.**Last Taught:** Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 444 Sociology of the Body**

3 cr. Undergraduate/Graduate.

How the body is shaped by social forces. Relationship between the body, identity, and culture, focusing on gender, race/ethnicity, and disability.

**Prerequisites:** jr st & any Sociol course; or grad st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 444G Sociology of the Body**

3 cr. Undergraduate/Graduate.

How the body is shaped by social forces. Relationship between the body, identity, and culture, focusing on gender, race/ethnicity, and disability.

**Prerequisites:** jr st & any Sociol course; or grad st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 448 Sociology of Children and Adolescents**

3 cr. Undergraduate/Graduate.

Theoretical perspectives and research methods addressing substantive issues in children's and adolescents' lives, including peer cultures, schooling, families, gender, race, class, health, and work.

**Prerequisites:** jr st & any Sociol course; or grad st.**Last Taught:** Spring 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 448G Sociology of Children and Adolescents**

3 cr. Undergraduate/Graduate.

Theoretical perspectives and research methods addressing substantive issues in children's and adolescents' lives, including peer cultures, schooling, families, gender, race, class, health, and work.

**Prerequisites:** jr st & any Sociol course; or grad st.**Last Taught:** Spring 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 461 Social Data Analysis Using Regression**

3 cr. Undergraduate/Graduate.

Advanced practical training in multivariate regression using real, large datasets (surveys, census data, etc.); how multiple independent variables influence a dependent variable.

**Prerequisites:** junior standing and SOCIOL 261(P) or other approved statistics course; or consent of instructor.**Course Rules:** No cr for students with cr in SOCIOL 499 with similar topic.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 461G Social Data Analysis Using Regression**

3 cr. Undergraduate/Graduate.

Advanced practical training in multivariate regression using real, large datasets (surveys, census data, etc.); how multiple independent variables influence a dependent variable.

**Prerequisites:** junior standing and SOCIOL 261(P) or other approved statistics course; or consent of instructor.**Course Rules:** No cr for students with cr in SOCIOL 499 with similar topic.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 476 Sociology of International Public Health**

3 cr. Undergraduate/Graduate.

Social, economic, and political factors that influence inequality in health at the global level; interacting influence of micro and macro forces on public health.

**Prerequisites:** jr st; 9 cr in Sociol at 200-level or above; or grad st.**Last Taught:** Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 476G Sociology of International Public Health**

3 cr. Undergraduate/Graduate.

Social, economic, and political factors that influence inequality in health at the global level; interacting influence of micro and macro forces on public health.

**Prerequisites:** jr st; 9 cr in Sociol at 200-level or above; or grad st.**Last Taught:** Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 489 Internship in Sociology, Upper Division**

3 cr. Undergraduate.

Application of advanced principles of sociology in a business, organization, educational, political or other appropriate setting; includes course work and 120 hrs field work.

**Prerequisites:** junior standing; declared SOCIOL major or minor; SOCIOL 361(P); 2.75 GPA.**Last Taught:** Spring 2021, Fall 2019, Spring 2017, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 495 Seminar in Sociology:**

3 cr. Undergraduate/Graduate.

Intensive study in a selected area of Sociology. Designed to encourage discussion, debate, and critical thinking.

**Prerequisites:** junior standing and 6 credits of SOCIOL coursework at the 200 level or above; or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Spring 2023, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 495G Seminar in Sociology:**

3 cr. Undergraduate/Graduate.

Intensive study in a selected area of Sociology. Designed to encourage discussion, debate, and critical thinking.

**Prerequisites:** junior standing and 6 credits of SOCIOL coursework at the 200 level or above; or consent of instructor.**Course Rules:** May be retaken with change in topic to 6 cr max.**Last Taught:** Spring 2023, Fall 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Summer 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2013, Fall 2007, Fall 2004, UWinterIM 2003.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 701 Professional Seminar**

1 cr. Graduate.

Fundamentals of academic and sociological reading, writing, and thinking. Orientation to graduate study, the sociological profession, and the tools of sociological research.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 715 Systematic Sociological Theory**

3 cr. Graduate.

A general examination of sociological theories, their construction, problems of conceptualization, and methodological requirements.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 750 Research Methods in Sociology**

3 cr. Graduate.

Application of scientific methods to the analysis of social phenomena, methodological orientations in sociology, types of research procedure, and nature of sociological variables.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 752 Fundamentals of Survey Methodology**

3 cr. Graduate.

Seminar in the principles of survey design that are the basis of standard practices in the field of sociology.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2015, Spring 2014, Spring 2013, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 760 Advanced Statistical Methods in Sociology**

3 cr. Graduate.

Review of elementary statistics. Probability theory and its applications. Multivariate analysis. Nonparametric statistical inference. Measurement theory. Selected statistical models for hypothesis testing and theory construction.

**Prerequisites:** graduate standing and a score of 85 on department diagnostic examination.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 790 Master's Level Thesis/Paper**

1-6 cr. Graduate.

Research or thesis/paper work for students in the master's program in sociology.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 15 cr max. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 794 Proseminar: The Teaching of Undergraduates**

2 cr. Graduate.

Designed to prepare and support new teachers of undergraduates in a variety of disciplines.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 799 Master's Level Reading and Research**

1-3 cr. Graduate.

Independent study of a topic selected by a student after consultation with member of graduate faculty.

**Prerequisites:** graduate standing and consent of instructor.

**Course Rules:** Repeatable to 12 cr max.

**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirements.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Summer 2023, Summer 2022, Summer 2020, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOLOGY 901 Urban Social Structure**

3 cr. Graduate.

Comprehensive analysis of the emergence and institutionalization of cultural and social patterns in urban settings; and future American urban social structures.

**Prerequisites:** graduate standing.

**Course Rules:** SOCIOLOGY 901 and URB STD 901 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023, Spring 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**SOCIOL 910 The Sociology of Inequality**

3 cr. Graduate.

Social, economic, cultural, and political forces behind the formation and reproduction of social inequalities in the United States.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 911 The Sociology of Institutions**

3 cr. Graduate.

Social institutions as a foundational sociological concept. Theory and research on institutional emergence, persistence, and change.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2021, Fall 2019, Fall 2017, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 920 Sociology of Race and Ethnicity**

3 cr. Graduate.

Patterns of racial and ethnic differentiation and how they originate and change over time.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2022, Fall 2013, Fall 2010, Fall 2003.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 923 Sociology of Culture**

3 cr. Graduate.

Selected themes in the sociology of culture, including symbols, language, forms of knowledge, power and practice, the arts, and media.

**Prerequisites:** graduate standing.**Course Rules:** No credit for students with credit in SOCIOL 927 with the same title.**Last Taught:** Spring 2021, Spring 2019, Fall 2016, Spring 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 925 Sex and Gender**

3 cr. Graduate.

Select survey of sociological theory and research about linkages among sex, gender, social institutions, and inequality.

**Prerequisites:** graduate standing.**Course Rules:** Counts as a repeat of SOCIOL 927 with similar topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 927 Seminar in Sociology of Contemporary Institutions:**

3 cr. Graduate.

Analysis of major social institutions in modern societies in terms of status orders, division of labor, normative systems, processes of social change, and conflict. Specific topics and any additional prerequisites announced in Schedule of Classes

**Prerequisites:** graduate standing.**Course Rules:** Retakable with change in topic and consent of adviser to 9 credits maximum.**Last Taught:** Spring 2023, Spring 2022, Spring 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 928 Seminar in Social Organization:**

3 cr. Graduate.

Study of conceptual approaches used in analyzing social organization: social stratification, complex organization, urbanization, small groups in mass society. Specific topics and any additional prerequisites announced in schedule of classes each time course is offered.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic & cons advisor to 9 cr max.**Last Taught:** Fall 2021, Spring 2020, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 951 Seminar in Research Methodology**

3 cr. Graduate.

Discussion of selected topics in research design, research methods, statistical analysis, and model construction.

**Prerequisites:** graduate standing.**Course Rules:** Retakeable to a max of 9 cr with consent of adviser.**Last Taught:** Fall 2023, Spring 2020, Spring 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 952 Social Network Analysis**

3 cr. Graduate.

Overview of classic and contemporary quantitative methods for social network analysis in sociology and other fields. Methodological issues and substantive applications. Use of network analysis software.

**Prerequisites:** graduate standing and a graduate-level statistics course or consent of instructor.**Course Rules:** Counts as a repeat of SOCIOL 951 with the same title.**Last Taught:** Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 979 Qualitative Research Methods**

3 cr. Graduate.

Seminar on logic, design, and presentation of social science research. Inductive and qualitative methods, theory construction, and ethics and procedures of research in natural settings.

**Prerequisites:** graduate standing.**Course Rules:** SOCIOL 979 and URB STD 979 are jointly-offered and count as repeats of one another.**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 982 Advanced Quantitative Analysis**

3 cr. Graduate.

Evaluation of different methods of generating data and their applications to the analysis of public policies and programs.

**Prerequisites:** graduate standing and a minimum score of 85 on department diagnostic exam.**Course Rules:** SOCIOL 982 and URB STD 982 are jointly offered; they count as repeats of one another.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SOCIOL 990 Doctoral Dissertation**

1-6 cr. Graduate.

Research for dissertation.

**Prerequisites:** graduate standing; admission to candidacy for PhD degree; consent of major professor.**Course Rules:** Repeatable to 30 cr max.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SOCIOL 999 Doctoral Reading and Research**

1-6 cr. Graduate.

Independent study of a topic selected by a student after consultation with member of graduate faculty.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Retakable to 9 cr max.**Last Taught:** Fall 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Spanish (SPANISH)

**SPANISH 103 First-Semester Spanish**

4 cr. Undergraduate.

Introductory course for students who have had little or no previous work in Spanish.

**Prerequisites:** none.**Course Rules:** Open only to students with 2 yrs H.S. Spanish or less or a score of 1 on Spanish placement exam.**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 104 Second-Semester Spanish**

4 cr. Undergraduate.

Continuation of Spanish 103.

**Prerequisites:** grade of C- or better in Spanish 103(P) or level 2 score on Spanish placement exam.**Course Rules:** Generates L&S credits for demonstrated equivalent preparation (4 retro crs).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 197 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Spring 2020, Fall 2019, Summer 2019, Summer 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 203 Third-Semester Spanish**

3 cr. Undergraduate.

Continuation of Spanish 104. Review of the main grammatical concepts. Readings in modern Spanish and Spanish-American literature.

**Prerequisites:** grade of C- or better in Spanish 104(P) or level 3 score on Spanish placement exam.**Course Rules:** Generates L&S credits for demonstrated equivalent preparation (8 retro crs).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 204 Fourth-Semester Spanish**

3 cr. Undergraduate.

Continuation of Spanish 203. Review of the main grammatical concepts. Readings in modern Spanish and Spanish-American literature.

**Prerequisites:** grade of C- or better in Spanish 203(P) or level 4 score on Spanish placement exam.**Course Rules:** Generates L&S credits for demonstrated equivalent preparation (11 retro crs).**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 225 Understanding the Hispanic World:**

3 cr. Undergraduate.

Different manifestations of Hispanic culture across continents and centuries studied from many angles.

**Prerequisites:** none.**Course Rules:** In English. May be retaken w/chg in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Fall 2019, Fall 2018, Spring 2018, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 289 Internship in Spanish, Lower Division**

1-3 cr. Undergraduate.

Application of basic principles of Spanish in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Spanish; 2.25 gpa; cons supervising faculty member.**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 3 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 296 UROP Apprenticeship**

3 cr. Undergraduate.

Undergraduate research participation in a project developed with a supervising member of the faculty or staff.

**Prerequisites:** acceptance into UROP; prior or conc reg in UROP seminar.**Course Rules:** One credit for 45 hrs research. May be retaken to 9 cr max in any combination of UROP apprenticeship courses. Not open to jrs & srs.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before coursework level, content and cr are determined and/or in specially prepared program coursework.

**Prerequisites:** acceptance for Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Last Taught:** Fall 2023, Spring 2023, Summer 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept &amp; assoc dean approval. In exceptional circumstances, can be offered in one add'l sem. May be retaken w/chg in topic.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.**Last Taught:** Spring 2000, Fall 1999, Spring 1999, Spring 1998.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 308 Advanced Writing and Reading**

3 cr. Undergraduate.

Development of proficiency in different writing styles; emphasis on the most difficult aspects of Spanish through reading and other exercises.

**Prerequisites:** C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.**Course Rules:** Counts as repeat of Spanish 305 and 316. Generates L&S credits for demonstrated equivalent preparation (14 retro credits).**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 318 Advanced Speaking and Listening**

3 cr. Undergraduate.

Development of oral proficiency in relation to Hispanic culture.

**Prerequisites:** C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.

**Course Rules:** For non-heritage Spanish speakers. Students cannot receive credit for both 318 and 319. Generates L&S credits for demonstrated equivalent preparation (14 retro cr).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 319 Advanced Speaking and Listening for Heritage Speakers**

3 cr. Undergraduate.

Development of full proficiency in reading, writing, and speaking skills in Spanish for students with native/near-native command of these skills.

**Prerequisites:** C- or better in Spanish 204(P), or score level 5 on Spanish placement exam, or cons instr.

**Course Rules:** Open only to heritage Spanish speakers. Others with near-native proficiency admitted at instr discretion. Students cannot receive credit for both 318 and 319. Generates L&S credits for demonstrated equivalent preparation (14 retro credits).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 332 Using Spanish in the Business World**

3 cr. Undergraduate.

Business language and practice in Spanish-speaking countries.

**Prerequisites:** SPANISH 308(P) and SPANISH 318(C) or SPANISH 319(C).

**Last Taught:** Spring 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 333 Advanced Spanish Grammar**

3 cr. Undergraduate.

Designed to solidify written expression skills and provide a clear understanding of Spanish grammar rules at an advanced level.

**Prerequisites:** Spanish 308(P); Spanish 318(P) or 319(P).

**Last Taught:** Spring 2023, Spring 2021, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 338 Spanish for Health Professionals**

3 cr. Undergraduate.

Acquisition of intermediate conversational and written skills in medical terminology in Spanish through a communicative approach. For health care students.

**Prerequisites:** Spanish 308(P); & grade C- or better in Spanish 318(P) or 319(P) or equiv.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 341 Introduction to Hispanic Linguistics**

3 cr. Undergraduate.

Spanish linguistics, including phonetics, phonology, syntax, morphology, semantics, and sociolinguistics.

**Prerequisites:** Spanish 308(P); Spanish 318(C) or 319(C).

**Course Rules:** Generates L&S credits for demonstrated equivalent preparation (14 retro cr).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 342 Business and Legal Spanish**

3 cr. Undergraduate.

Business terminology and concepts; instruction in the legal terminology of Hispanic countries.

**Prerequisites:** SPANISH 308(P) and SPANISH 318(C) SPANISH or 319(C); or consent of instructor.

**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 348 Introduction to Translation: English to Spanish**

3 cr. Undergraduate.

Basic skills necessary for professional translation. Translation of texts from English into Spanish. Summarizing texts; sight translation.

**Prerequisites:** junior standing, SPANISH 308(P), and SPANISH 318(C) or SPANISH 319(C).

**Last Taught:** Fall 2020, Fall 2018, Spring 2017, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 350 Introduction to Literary Analysis**

3 cr. Undergraduate.

Designed to acquaint students with the critical tools needed to analyze texts and conduct research.

**Prerequisites:** Spanish 308(P); Spanish 318(C) or 319(C).

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 371 Introduction to Latino Literature in English**

3 cr. Undergraduate.

Introduction to the development of literature by Chicanos, Nuyoricans, and other Hispanics since the late fifties and its historical, social, and political background.

**Prerequisites:** jr st or writ cons dept.

**Course Rules:** Taught in English.

**General Education Requirements:** CD, HU

**Last Taught:** Spring 2023, Fall 2021, Fall 2016, Fall 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 373 Topics in Latino Literature in English:**

3 cr. Undergraduate.

Some of the experiences of U.S. Hispanics as reflected in literature, film, and other cultural manifestations.

**Prerequisites:** junior standing or written consent of department.

**Course Rules:** Taught in English. May be retaken with change in topic to 6 cr max.

**General Education Requirements:** CD, HU

**Last Taught:** Fall 2023, Fall 2022, Fall 2015, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 388 Health Issues in the Hispanic World**

3 cr. Undergraduate.

Different aspects of the health care system in the U.S. in relation to the Hispanic culture(s).

**Prerequisites:** Spanish 308(P); & grade C- or better in Spanish 318(P) or 319(P) or equiv.

**Last Taught:** Fall 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 391 Social and Historical Issues in the Hispanic World:**

3 cr. Undergraduate.

Culture of the Hispanic people, with a focus on a particular social or historical perspective and/or issue.

**Prerequisites:** SPANISH 308(P) and SPANISH 318(C) or SPANISH 319(C).**Course Rules:** May be retaken with change in topic to 9 cr max.**General Education Requirements:** HU**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 397 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 443 Spanish Phonetics and Phonology**

3 cr. Undergraduate/Graduate.

Theory of Spanish sounds; phonetic transcription; practice in pronunciation. Language lab may be required.

**Prerequisites:** junior standing and SPANISH 341(P).**Last Taught:** Spring 2015, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 443G Spanish Phonetics and Phonology**

3 cr. Undergraduate/Graduate.

Theory of Spanish sounds; phonetic transcription; practice in pronunciation. Language lab may be required.

**Prerequisites:** junior standing and SPANISH 341(P).**Last Taught:** Spring 2015, Spring 2012.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 444 Spanish Syntax and Morphology**

3 cr. Undergraduate/Graduate.

Comprehensive review of Spanish syntax and morphology; the meaning of words, sentences, and discourse.

**Prerequisites:** junior standing or greater and SPANISH 341(P); or consent of instructor.**Last Taught:** Fall 2016, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 444G Spanish Syntax and Morphology**

3 cr. Undergraduate/Graduate.

Comprehensive review of Spanish syntax and morphology; the meaning of words, sentences, and discourse.

**Prerequisites:** junior standing or greater and SPANISH 341(P); or consent of instructor.**Last Taught:** Fall 2016, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 446 Hispanic Sociolinguistics**

3 cr. Undergraduate/Graduate.

Critical analysis of the relationship between language and society in the Hispanic world.

**Prerequisites:** junior standing and SPANISH 341(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 446G Hispanic Sociolinguistics**

3 cr. Undergraduate/Graduate.

Critical analysis of the relationship between language and society in the Hispanic world.

**Prerequisites:** junior standing and SPANISH 341(P).**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 470 Survey of Hispanic Literature and Civilization**

3 cr. Undergraduate.

Literature in Spain and Spanish America from the Middle Ages to 1880.

**Prerequisites:** jr st; Spanish 350(P).**Last Taught:** Fall 2023, Fall 2022, Spring 2022, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 472 Survey of Spanish-American Literature and Civilization**

3 cr. Undergraduate.

Literature in Spanish America from Modernism to the present.

**Prerequisites:** jr st; Spanish 350(P).**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 474 Survey of Spanish Literature and Civilization**

3 cr. Undergraduate.

Literature in Spain from Realism to the present.

**Prerequisites:** jr st; Spanish 350(P).**Last Taught:** Spring 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 489 Internship in Spanish, Upper Division**

1-3 cr. Undergraduate.

Application of advanced principles of Spanish in a business, organizational, educational, political, or other appropriate non-salaried setting.

**Prerequisites:** jr st; 6 cr at 400-level or above in Spanish; 3.50 gpa in Spanish major; writ cons supervising faculty member and dept chair.**Course Rules:** One cr earned for academic work based on 40 hrs in internship. May be retaken to 3 cr max.**Last Taught:** Spring 2014, Spring 2012, Spring 2008, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 491 Topics in Hispanic Culture:**

3 cr. Undergraduate.

The culture of a group of Hispanic people from a particular social and/or historical perspective, with a focus on one or more manifestations of that culture.

**Prerequisites:** completion of 9 credits in Spanish at the 300 level or above.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2019, Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, contact, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.**Course Rules:** May be retaken with change in topic.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, contact, and credits are determined and/or in specially prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Summer 2011, Spring 2010, Spring 2009, Spring 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 506 Seminar in Spanish Literature:**

3 cr. Undergraduate/Graduate.

One or more areas of Spanish peninsular literature across periods, genres, or regions.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2022, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 506G Seminar in Spanish Literature:**

3 cr. Undergraduate/Graduate.

One or more areas of Spanish peninsular literature across periods, genres, or regions.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2022, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 507 Seminar in Spanish-American Literature:**

3 cr. Undergraduate.

One or more areas of Spanish-American literature across periods, genres, or regions.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 508 Seminar in Hispanic Literature:**

3 cr. Undergraduate.

A literary subject with manifestations in more than one Hispanic literature, including Latino literature, with focus on the differences between/among them.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2022, Fall 2020, Spring 2019, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 541 History of the Spanish Language**

3 cr. Undergraduate/Graduate.

External and internal history of the evolution of the Spanish language.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.

**Last Taught:** Spring 2023, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 541G History of the Spanish Language**

3 cr. Undergraduate/Graduate.

External and internal history of the evolution of the Spanish language.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.

**Last Taught:** Spring 2023, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 545 Seminar in Hispanic Linguistics:**

3 cr. Undergraduate/Graduate.

One or more branches of linguistics, such as dialectology, pragmatics, sociolinguistics, historical linguistics, etc., in relation to the Hispanic languages.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 545G Seminar in Hispanic Linguistics:**

3 cr. Undergraduate/Graduate.

One or more branches of linguistics, such as dialectology, pragmatics, sociolinguistics, historical linguistics, etc., in relation to the Hispanic languages.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 570 Seminar in Spanish Golden Age Literature:**

3 cr. Undergraduate.

Topics on the poetry and/or the narrative and didactic prose of the late sixteenth and the seventeenth centuries.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 572 Seminar on Cervantes:**

3 cr. Undergraduate.

'Don Quixote' and/or other works by Cervantes.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**Last Taught:** Spring 2020, Spring 2017, Fall 2013, Fall 2008.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 578 Seminar in Modern Spanish Literature and Civilization:**

3 cr. Undergraduate.

Topics on the poetry, fiction, and/or drama of twentieth- and twenty-first-century Spain.

**Prerequisites:** completion of 6 credits in Spanish at the 400 level or above.**Course Rules:** May be retaken with change in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2021, Fall 2019, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 597 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 597G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 697 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 697G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enable students studying language abroad to receive course credit at appropriate level.

**Prerequisites:** jr st; acceptance in Study Abroad Prog.**Course Rules:** May be retaken w/chg in topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 699 Independent Study**

1-3 cr. Undergraduate.

Advanced independent work under supervision of Spanish faculty or instructional academic staff member. Instructor must approve student's study proposal. For more information, consult dept chair.

**Prerequisites:** jr st; 2.0 overall GPA; 3.5 Spanish GPA; consent of instructor, department chair, and Assistant Dean for Student Academic Services.**Course Rules:** May be retaken with change in topic to 3 cr max.**Last Taught:** Summer 2015, Fall 2011, Spring 2011, UWinteriM 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 700 Practicum in Spanish Language Teaching Methods**

1 cr. Graduate.

Practical application within Spanish of methods and concepts taught in MALLT (MAFLL) 700.

**Prerequisites:** grad st; MALLT (MAFLL) 700(C) or cons instr.**Course Rules:** Retakable to 2 cr max.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 701 Historical Linguistics**

3 cr. Graduate.

Evolution of the language from Latin to medieval Spanish and from medieval to modern Spanish, including contemporary varieties.

**Prerequisites:** grad st; Spanish 341(R) or equiv.**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 702 Seminar in Hispanic Linguistics:**

3 cr. Graduate.

Seminar in selected subfields of Hispanic linguistics.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 703 Seminar on Language and Society:**

3 cr. Graduate.

Analysis and discussion of advanced issues on the interaction between language and society in the Hispanic world and/or different areas of interest.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2022, Spring 2020, Fall 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 707 Introduction to Translation: Spanish to English**

3 cr. Graduate.

Basic skills necessary for professional translation. Translation of texts from Spanish into English. Summarizing texts; sight translation.

**Prerequisites:** grad st; Spanish 308(P) or equiv.**Course Rules:** Counts as a repeat of Trnsltn 707. Not open for cr to students w/grad cr in Spanish 347.**Last Taught:** Fall 2009, Fall 2008, Fall 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 720 Approaches to Hispanic Literary Theory and Criticism**

3 cr. Graduate.

Literary theory and criticism from and pertinent to Hispanic literatures and cultures. Prereq: grad st

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 751 Seminar in Medieval Literature and Related Topics:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 755 Seminar in Renaissance Literature and Related Topics:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 757 Seminar in One or More Areas of Siglo de Oro Literature and Related Topics:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**SPANISH 763 Seminar-Romantic Literature in Spain &/or Spanish America & Related Topics:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2007.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 767 Sem on Realistic Literature in Spain &/or Spanish America & Related Topics:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2008.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 768 Naturalism and Its Influences**

3 cr. Graduate.

A study of Naturalism and its influences in Spain during the 19th, 20th, and 21st centuries.

**Prerequisites:** grad st.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 769 Seminar in 20th Cent Lit of Spain and/or Spanish America & Related Topics**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 770 The Modern Spanish Novel**

3 cr. Graduate.

A study of the novel in Spain since the death of Franco in 1975.

**Prerequisites:** grad st.**Last Taught:** Fall 2017, Fall 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 771 Seminar in Early Spanish American Literature and Related Topics:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Spring 2011, Fall 1999.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 781 Seminar in Hispanic Literature:**

3 cr. Graduate.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 6 cr max.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Spring 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 782 Modern Spanish Women Writers**

3 cr. Graduate.

A study of women writers of Spain during the 20th and 21st centuries.

**Prerequisites:** grad st.**Last Taught:** Spring 2023, Fall 2018, Spring 2016, Spring 2009.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 790 Thesis**

1-6 cr. Graduate.

Independent study and research on a master's thesis under supervision of the student's advisory committee.

**Prerequisites:** grad st; cons advisory committee.**Course Rules:** Retakable to 6 cr max.**Last Taught:** Spring 2023, Fall 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 791 Spanish Culture and Related Topics:**

3 cr. Graduate.

An in-depth examination of the culture of Spain with special attention paid to the history of the country and to the formation of a Spanish identity.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Spring 2013, Fall 2012, Fall 2008, Spring 2000.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 793 Spanish American Culture and Related Topics:**

3 cr. Graduate.

In-depth examination of the development of a Latin American culture with a focus on key aspects of that culture after independence.

**Prerequisites:** grad st.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 799 Independent Study**

1-3 cr. Graduate.

Individual program of supervised study in the student's area of emphasis or interest, different from content of course offerings, supervised by a graduate faculty. Topics selected in agreement with and the approval of supervising professor.

**Prerequisites:** grad st; 3.0 gpa in Spanish grad courses, writ cons instr & dept chair.**Course Rules:** Retakable w/chg in topic to 3 cr max.**Last Taught:** Spring 2023, Fall 2022, Spring 2016, Spring 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**SPANISH 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 3 cr max. Satisfactory/Unsatisfactory only.**Last Taught:** Fall 2019, Summer 2017, Spring 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Sustainable Peacebuilding, Master of (MSP)

**MSP 760 Systems Thinking, Mapping, and Sustainability**

3 cr. Graduate.

Guided by principles of ecological systems, environmental policy and global sustainability, students explore how systems view, data, and mapping can grow insight and strengthen analysis.

**Prerequisites:** graduate standing and admitted to the Master of Sustainable Peacebuilding program; or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 761 Complex Human-Environmental Interactions**

3 cr. Graduate.

Advanced concepts on how humans and the environment affect one another.

**Prerequisites:** graduate standing and admission to the Master of Sustainable Peacebuilding program; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 762 Conflict Transformation: Negotiation and Mediation Skills**

3 cr. Graduate.

Intensive experience in both the theory and practice of effective negotiation, conflict mediation, how to have difficult conversations, influence others, and manage group problem solving processes.

**Prerequisites:** graduate standing and admitted to the Master of Sustainable Peacebuilding program; or consent of instructor.

**Course Rules:** Previously MSP 790.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 770 Conflict Analysis and Restorative Practices**

3 cr. Graduate.

Provides students with an introduction to conflict theory and analysis and an introduction to theory and skills of restorative practices/ restorative justice.

**Prerequisites:** graduate standing and admitted to the Master of Sustainable Peacebuilding program; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 771 Facilitation Skills for Peacebuilding**

3 cr. Graduate.

Theory and practice of group facilitation and effective presentations as tools for building community, transforming conflict, and promoting social change.

**Prerequisites:** graduate standing and admitted to the Master of Sustainable Peacebuilding program; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 772 Fieldwork in Sustainable Peacebuilding: US Placement**

1-6 cr. Graduate.

Field experience in sustainable peacebuilding with placement in the United States.

**Prerequisites:** graduate standing and admission to the Master of Sustainable Peacebuilding program; or consent of instructor.

**Course Rules:** Retakable to 12 cr max. Previously MSP 798.

**Last Taught:** Summer 2023, Fall 2022, Summer 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 773 Fieldwork in Sustainable Peacebuilding: Study Abroad**

1-6 cr. Graduate.

Field experience in sustainable peacebuilding with placement outside the United States.

**Prerequisites:** graduate standing and admission to the Master of Sustainable Peacebuilding program; or consent of instructor.

**Course Rules:** Retakable to 12 cr max. Previously MSP 797.

**Last Taught:** Summer 2023, Summer 2022, Summer 2021, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 780 Transdisciplinary Research Methods and Information Literacy**

3 cr. Graduate.

Transdisciplinary research methods and the processes employed to apply qualitative and quantitative information to the practice of sustainable peacebuilding.

**Prerequisites:** graduate standing and admission to the Master of Sustainable Peacebuilding program; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 781 Evaluation and Organizational Innovation**

3 cr. Graduate.

Learning-enabled approaches for monitoring, assessment, and evaluation for adaptive management in complex systems.

**Prerequisites:** graduate standing and admitted to the Master of Sustainable Peacebuilding program; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 785 Strategic Project Design, Management and Evaluation**

3 cr. Graduate.

Introduction to strategies and effective practices for planning, implementation, management and monitoring of field projects in sustainable peacebuilding.

**Prerequisites:** graduate standing and admitted to the Master of Sustainable Peacebuilding program; or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 786 Transformational Leadership for Peacebuilding**

3 cr. Graduate.

Capstone focused on theory, tools, and skills needed to build and promote a career related to the practice of sustainable peacebuilding.

**Prerequisites:** graduate standing and admitted to the Master of Sustainable Peacebuilding program.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 791 Leadership and Program Management for Sustainable Peacebuilding**

3 cr. Graduate.

Theory, tools and skills needed to function effectively and build a career in sustainable peacebuilding and related fields.

**Prerequisites:** graduate standing and admission to the Master of Sustainable Peacebuilding program; or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**MSP 799 Independent Study**

1-6 cr. Graduate.

Supervised research, readings, or project related to sustainable peacebuilding.

**Prerequisites:** grad st; admis to MSP or cons instr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



## Teaching and Learning (TCH LRN)

### TCH LRN 109 Field Experience with Families and Communities

1 cr. Undergraduate.

Field experience in local agencies providing services in diverse environments.

**Prerequisites:** TCH LRN 312(C) or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 140.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 209 Field Work in Inclusive EC: Dual Language Learners

2 cr. Undergraduate.

Field experience with dual language learners in various settings.

**Prerequisites:** TCH LRN 109(P) and TCH LRN 501(C); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 240.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 302 Inclusive Curriculum Foundations in Early Childhood

2 cr. Undergraduate.

Examination of curriculum in inclusive early childhood settings including the use of assessment and instructional strategies.

**Prerequisites:** sophomore standing or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 302.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 303 Inclusive Curriculum Design in Early Childhood

2 cr. Undergraduate.

Design of curriculum in inclusive early childhood settings including further investigation of developmentally appropriate teaching strategies and assessment.

**Prerequisites:** sophomore standing and admission to School of Education; or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 302.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 309 Inclusive Early Childhood Field Experiences: Preschool and Kindergarten

3 cr. Undergraduate.

Field experience in the preschool/kindergarten classrooms; application of theoretical understandings within classroom settings.

**Prerequisites:** junior standing and admission to School of Education; or consent of instructor; TCH LRN 209(P), TCH LRN 502(C), and TCH LRN 569(C).

**Course Rules:** Counts as repeat of CURRINS 340 or EXCEDUC 648.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 312 Models and Issues for Inclusive Early Childhood Education

3 cr. Undergraduate.

Overview of content, methods, and issues pertaining to the organization of inclusive early childhood programs for culturally and linguistically diverse learners.

**Prerequisites:** TCH LRN 109(C).

**Course Rules:** Counts as repeat of CURRINS 312.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 323 Teaching of Social Studies: Inclusive Early Childhood Education

3 cr. Undergraduate.

Examination of the purposes of social studies education in the schools, including content selection, educational process, and the nature of inquiry.

**Prerequisites:** junior standing, admission to School of Education, TCH LRN 302(P), and TCH LRN 303(P); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 323.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 338 Teaching of Science in Inclusive Early Childhood Education

3 cr. Undergraduate.

Objectives, materials, and teaching methods for science in early childhood classrooms.

**Prerequisites:** junior standing, admission to School of Education, TCH LRN 302(P), and TCH LRN 303(P); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 338.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 409 Inclusive Early Childhood Field Experiences: Primary

3 cr. Undergraduate.

Field experiences in inclusive early childhood primary classrooms with opportunities to work with learners with diverse abilities.

**Prerequisites:** junior standing, admission to School of Education, TCH LRN 309(P), and TCH LRN 504(C); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 440 or EXCEDUC 649.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 430 Perspectives on Disability in Early Childhood Education

3 cr. Undergraduate.

Overview of understanding and supporting young learners birth through age 8 with disabilities and their families.

**Prerequisites:** sophomore standing.

**Course Rules:** Counts as repeat of EXCEDUC 630.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 501 Language Acquisition for Children of Diverse Backgrounds

3 cr. Undergraduate.

Examinations of theories of language acquisition and development for children of diverse backgrounds. Teaching methods for developing literacy and biliteracy.

**Prerequisites:** sophomore standing, TCH LRN 312(P), and TCH LRN 209(C); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 501.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

### TCH LRN 502 Emergent Literacy and Biliteracy in the Inclusive Early Childhood Classroom

3 cr. Undergraduate.

Study of literacy and biliteracy development of young children and teaching methods to support this development in the inclusive early childhood classroom.

**Prerequisites:** junior standing, admission to the School of Education, TCH LRN 501(P) and TCH LRN 309(C); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 502.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 504 Methods for Biliteracy and Language Arts in Inclusive Primary Classrooms**

3 cr. Undergraduate.

Study of literacy and biliteracy development of young children and teaching methods to support this development in inclusive primary classrooms.

**Prerequisites:** junior standing, admission to School of Education, TCH LRN 502(P) and TCH LRN 409(C); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 504.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 509 Advanced Field Experience in Inclusive Early Childhood Education**

3 cr. Undergraduate.

Advanced field experiences in inclusive early childhood classrooms designed for preparation of student teaching experience; focus on reflective practice, lesson components, and social emotional learning approaches.

**Prerequisites:** senior standing, admission to School of Education, and TCH LRN 409(P); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 540.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 511 Curriculum and Guidance for Social Emotional Learning**

3 cr. Undergraduate.

Study of teaching strategies and curriculum and guidance methods designed to enhance children's social/emotional learning.

**Prerequisites:** junior standing and admission to School of Education.

**Course Rules:** Counts as repeat of CURRINS 511.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 512 Reflective Practice in Inclusive Early Childhood Teaching and Learning**

3 cr. Undergraduate.

Examination of connections between the urban context, ways of understanding diversity, and professional practice in inclusive early childhood classrooms, including implications of pedagogy, curriculum, and instruction.

**Prerequisites:** sophomore standing and TCH LRN 312(P); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 512.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 520 Developing Mathematical Thinking in Young Children**

3 cr. Undergraduate/Graduate.

Teaching and learning of mathematics in PK-3. Emphasis on developmental learning trajectories, counting principles, subitizing, early number, spatial reasoning, problem-solving, and communication.

**Prerequisites:** junior standing, admission to the School of Education, and a grade of C or better in MATH 176(P); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 520.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 520G Developing Mathematical Thinking in Young Children**

3 cr. Undergraduate/Graduate.

Teaching and learning of mathematics in PK-3. Emphasis on developmental learning trajectories, counting principles, subitizing, early number, spatial reasoning, problem-solving, and communication.

**Prerequisites:** junior standing, admission to the School of Education, and a grade of C or better in MATH 176(P); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 520.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 568 Inclusive Early Childhood Care, Curriculum, and Teaching: Birth to Three**

3 cr. Undergraduate.

Approaches to infant/toddler care, early intervention, and early education for learners with and without disabilities; instructional material and techniques to foster infant/toddler development; strategies for administering and managing learning environments.

**Prerequisites:** sophomore standing, admission to School of Education, and TCH LRN 647(C); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 301 or EXCEDUC 568.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 569 Inclusive Early Childhood Curriculum and Methods: Preschool**

3 cr. Undergraduate.

Study of preschool teaching strategies and curriculum designed to apply theoretical understandings within early childhood settings.

**Prerequisites:** junior standing and TCH LRN 309(C).

**Course Rules:** Counts as repeat of EXCEDUC 569.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 570 Inclusive Early Childhood Curriculum and Teaching: Primary**

3 cr. Undergraduate.

Study of inclusive primary classroom teaching strategies and curriculum designed to apply theoretical understandings within classroom settings.

**Prerequisites:** junior standing and TCH LRN 409(C).

**Course Rules:** Counts as repeat of EXCEDUC 570.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 601 Student Teaching Seminar in Inclusive Early Childhood Education**

3 cr. Undergraduate.

Student teaching seminar class provides a space for teacher candidates to reflect, share, and examine experiences in inclusive early childhood setting.

**Prerequisites:** senior standing, admission to School of Education, and TCH LRN 609(C); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 601.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 608 Practicum in Inclusive Early Childhood Education Without Certification**

1-12 cr. Undergraduate.

Practicum to provide candidates with professional experience in an education-related setting.

**Prerequisites:** senior standing; admission to School of Education; TCH LRN 509(P); or consent of instructor.

**Course Rules:** Repeatable to 18 credits max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 609 Student Teaching in Inclusive Early Childhood Education**

1-12 cr. Undergraduate.

Student teaching in an inclusive early childhood classroom allows teacher candidates to apply theoretical understandings within classroom settings.

**Prerequisites:** senior standing; admission to the School of Education, TCH LRN 601(C), and TCH LRN 509(P); or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 640. Repeatable to 24 credits max.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 612 Collaborations for Teachers with Families, Schools, and Communities**

3 cr. Undergraduate.

Theory/strategies for developing effective family-school relationships, with a focus on urban issues, inclusive classrooms, teacher-family communications, family education and support, and community resources for teachers.

**Prerequisites:** junior standing, admission to School of Education; or consent of instructor.

**Course Rules:** Counts as repeat of CURRINS 612 or EXCEDUC 612.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 647 Inclusive Early Childhood Field Experiences: Birth to Three**

3 cr. Undergraduate.

Field experience in early intervention and birth to three natural settings. Allows teacher candidates to apply theoretical understandings within natural settings.

**Prerequisites:** junior standing.

**Course Rules:** Counts as repeat of EXCEDUC 647. Repeatable to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TCH LRN 652 Developmental Assessment of Young Children with Disabilities**

3 cr. Undergraduate.

The major functions of screening, assessment and progress monitoring implemented by inclusive early childhood educators.

**Prerequisites:** junior standing.

**Course Rules:** Counts as repeat of EXCEDUC 652.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Theatre (THEATRE)

**THEATRE 100 Introduction to the Theatre**

3 cr. Undergraduate.

Introduction to the theatre as a form of artistic, social and human expression from point-of-view of both theatre audience and theatre artist.

**Prerequisites:** none.

**General Education Requirements:** A

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 101 Acting for Non-majors**

3 cr. Undergraduate.

An introduction to basic acting techniques of personalization, focus, and scene study explored through participatory and collaborative exercises and assignments.

**Prerequisites:** Non-Theatre major.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 110 Fundamentals of the Actor's Process**

3 cr. Undergraduate.

Basic acting techniques of personalization, focus of attention, theatricality and scenic truth explored through exercises, improvisation, development of ensemble and solo and partnered performance

**Prerequisites:** Theatre major or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 111 Theatre Games**

3 cr. Undergraduate.

An introduction to a wide variety of improvisations and games which are designed to free and channel the self expression of performers and non-performers.

**Prerequisites:** none.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 150 Multicultural America:**

3 cr. Undergraduate.

Cross cultural study of US ethnic and racial identities through materials drawn from a variety of theatrical arts practices.

**Prerequisites:** none

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**General Education Requirements:** A, CD

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 202 Theatre Practicum**

1-4 cr. Undergraduate.

Practical work on live performance productions. Credit earned by serving on publicity, house, stage, sound, light, or costume crews, or by stage managing or performing.

**Prerequisites:** grade of C or better in THEATRE 214(P) or THEATRE 225(P); or cons instr.

**Course Rules:** May be retaken to max of 4 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 204 Theatre and Social Change**

3 cr. Undergraduate.

Introduction to the study, methodologies, and practice of participatory theatre including happenings, environmental theatre, therapeutic theatre, and celebratory theatre.

**Prerequisites:** none**General Education Requirements:** A**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 213 Play Analysis**

3 cr. Undergraduate.

Methods of analysis of the dramatic text for production; the elements of a play through discussion and written analysis of selected works.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 214 Stagecraft**

4 cr. Undergraduate.

Principles and practices of theatrical construction techniques for scenery and props, lighting and sound installation emphasizing safety and craftsmanship. Requires scheduled work in production studios under faculty supervision.

**Prerequisites:** none**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 215 Properties Production**

3 cr. Undergraduate.

Introductory properties shop/management artisan skills with basic construction and finishing techniques for stage properties.

**Prerequisites:** a grade of C or better in THEATRE 214(P) or consent of instructor.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 218 Computer Modeling and Graphics for Live Performance**

3 cr. Undergraduate.

Development of basic techniques in computer aided design and graphic arts for the theatre.

**Prerequisites:** none.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 224 Make-Up**

3 cr. Undergraduate.

Emphasis on materials, effects of light, color and character analysis.

**Prerequisites:** none**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 225 Costume Construction**

2 cr. Undergraduate.

Mechanics and technology of art of costuming. Covers aspects of the costumer's craft focusing on practical work in shop.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 230 Acting 2: Text and Performance**

3 cr. Undergraduate.

Basic acting techniques in realism and extended realism through scene work and exercises exploring dramatic action, focus of attention and script analysis.

**Prerequisites:** a grade of C or better in THEATRE 110(P) or THEATRE 260(P); or consent of instructor.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 236 Theatre Production and Design**

3 cr. Undergraduate.

Design process exploring styles, methods, and presentation for scenery and costumes in traditional and non-traditional theatre.

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 260 Storytelling:**

3 cr. Undergraduate.

Development of skills to locate, analyze, and tell stories from multicultural sources and ranging from personal experience to myths and legends.

**Prerequisites:** none.**Course Rules:** May be retaken with change in topic to max of 9 cr.

Additional prerequisites may be required for scheduled sections - check the Schedule of Classes for more information.

**General Education Requirements:** A**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 275 Performing Arts Management**

3 cr. Undergraduate.

Exploration of stage and theatre management processes including rehearsal and production management techniques and introductory management principles for non-profit theatre

**Prerequisites:** none.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 285 Costume Construction 2**

3 cr. Undergraduate.

Construction of costumes; advanced tailoring techniques, practical application of classwork in costume shop.

**Prerequisites:** a grade of C or better in THEATRE 225(P) or consent of instructor.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 303 Introduction to Design and Production for Performance**

3 cr. Undergraduate.

Exploring design concepts for performance / theatrical production environments. Emphasis on different production styles, creativity, and design collaboration.

**Prerequisites:** none.**General Education Requirements:** A**Last Taught:** Spring 2017, Fall 2015, Spring 2015, Fall 2014.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 304 Costume Design**

3 cr. Undergraduate.

Designing the play, understanding the basic principles of costume design. Rendering technique, color theory and the elements of design are covered.

**Prerequisites:** sophomore standing or consent of instructor.

**Last Taught:** Fall 2022, Fall 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 305 The Theatrical Experience:**

3 cr. Undergraduate.

Performances, demonstrations, and lectures focusing on specific aspects of theatrical production. Attendance at live theatrical performances required

**Prerequisites:** none.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**General Education Requirements:** A

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 311 Improvisation**

3 cr. Undergraduate.

Participatory exploration of comedy improv, theatre games, and long-form improvisation designed to free and channel self expression and creativity. Open to performers or non-performers alike.

**Prerequisites:** none.

**Course Rules:** Repeatable to 6 cr max.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 314 Special Effects for Stage Scenery**

3 cr. Undergraduate.

Practical design, fabrication and installation of scenic effects emphasizing the use of pneumatics, electric motors and sensors.

**Prerequisites:** THEATRE 214(P) or consent of instructor

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 318 Scene Design**

3 cr. Undergraduate.

Development of design sensibility for stage set design from script analysis, research, and initial concept to model making of final design.

**Prerequisites:** sophomore standing or consent of instructor.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 319 Scenic Painting**

3 cr. Undergraduate.

Development of skills in stage painting techniques for scenery and properties.

**Prerequisites:** sophomore standing or consent of instructor.

**Last Taught:** Spring 2022, Spring 2020, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 321 The Theatre: Beginnings Through Realism**

3 cr. Undergraduate.

Study of the development of theatre art and its practice, performance, and scripts, from classical antiquity through the 19th century.

**Prerequisites:** soph st; satisfaction of GER OWC-A req.

**General Education Requirements:** A, OWCB

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 322 The Theatre: Modern and Contemporary Period**

3 cr. Undergraduate.

Study of the development of theatre art and its practice, performance, and scripts from 1900 to the present.

**Prerequisites:** soph st; satisfaction of GER OWC-A req.

**General Education Requirements:** A, OWCB

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 324 Theatre in the Americas: Latin American, Caribbean, and Latinx Theatre**

3 cr. Undergraduate.

Survey of Latin American, Caribbean, and U.S. Latinx theatre and performance. History and cultures of the Americas that shape these productions.

**Prerequisites:** junior standing.

**Course Rules:** Counts as repeat of LACS 324 or LATINO 324. LACUSL 324 and THEATRE 324 are jointly offered and count as repeats of one another.

**General Education Requirements:** A, CD

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 325 History of Costume**

3 cr. Undergraduate.

Study of costume and fashion from Egyptians to present. Emphasis on the sociological and cultural changes in patterns of dress and behavior.

**Prerequisites:** none.

**General Education Requirements:** A

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 330 Acting Topics:**

3 cr. Undergraduate.

Exploration of advanced acting techniques through various topic changes.

**Prerequisites:** May be retaken with change in topic.

**Last Taught:** Spring 2023, Spring 2022, Fall 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 337 Sound Production and Digital Editing for Stage and Studio**

3 cr. Undergraduate.

Exploration of sound recording and playback techniques for live performance including digital editing and computer based show control systems.

**Prerequisites:** sophomore standing or consent of instructor.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 338 Lighting Production**

3 cr. Undergraduate.

Hands-on exploration of seeing, making, and controlling light with emphasis on its practical application in live performance, video/film, architecture, and experiential design.

**Prerequisites:** sophomore standing or consent of instructor.

**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 343 Patternmaking**

3 cr. Undergraduate.

Exploration of flatpattern drafting for stage costumes.

**Prerequisites:** a grade of C or better in THEATRE 285(P) or consent of instructor.**Last Taught:** Spring 2022, Spring 2020, Fall 2017, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 354 Draping**

3 cr. Undergraduate.

Introduction to principles of draping techniques applied to stage costumes.

**Prerequisites:** a grade of C or better in THEATRE 343(P) or consent of instructor.**Last Taught:** Fall 2015, Fall 2013, Spring 2012, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 359 Playwriting**

3 cr. Undergraduate/Graduate.

Playwriting process through in-class exercises, writing assignments, critical analysis, and discussion.

**Prerequisites:** junior standing or consent of instructor.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 359G Playwriting**

3 cr. Undergraduate/Graduate.

Playwriting process through in-class exercises, writing assignments, critical analysis, and discussion.

**Prerequisites:** junior standing or consent of instructor.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 360 Theatre Practices:**

1-6 cr. Undergraduate.

Applied theatre practices and/or performance projects, that are developed through research, service-learning or in community settings.

**Prerequisites:** advanced to major in Theatre Education or consent of instructor.**Course Rules:** May be retaken to max of 6 cr.**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Fall 2021.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 380 Stage Management**

3 cr. Undergraduate.

Development of skills for the successful management of theatrical productions from auditions through rehearsal and performance.

**Prerequisites:** sophomore standing or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 400 Foundations**

1 cr. Undergraduate.

Exercises from various disciplines to stretch, energize, and prepare for the day's work in acting and production.

**Prerequisites:** Admis. to Theatre BFA Acting track.**Course Rules:** May be retaken for cr.**Last Taught:** Spring 2012, Fall 2011, Spring 2011, Fall 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 401 Advanced Costume & Properties Production**

3 cr. Undergraduate.

Advanced study and practical skill development related to work practices typical of theatrical costume and property shops.

**Prerequisites:** a grade of C or better in THEATRE 215(P) or THEATRE 285(P); or consent of instructor.**Last Taught:** Fall 2015, Fall 2013, Fall 2011, Spring 2010.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 408 Acting in Musical Theatre**

3 cr. Undergraduate.

Scene study in musical theatre, developing character through song, movement and text.

**Prerequisites:** advanced to major in Theatre BFA: Performance and a C grade or better in THEATRE 230(P); or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 410 Stage Directing**

3 cr. Undergraduate/Graduate.

Basic skills of staging, play analysis, rehearsal technique, and production organization.

**Prerequisites:** jr st; Theatre 213(P) & 230 (P); or cons instr.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 410G Stage Directing**

3 cr. Undergraduate/Graduate.

Basic skills of staging, play analysis, rehearsal technique, and production organization.

**Prerequisites:** jr st; Theatre 213(P) & 230 (P); or cons instr.**Last Taught:** Fall 2023, Fall 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 412 Career Preparation and Development**

1-2 cr. Undergraduate.

Explore theatre careers, research job search methods/ processes- portfolio, resume, webpages- for job interviews/auditions and create a long-range career plan.

**Prerequisites:** sophomore standing or consent of instructor.**Course Rules:** May not be retaken for credit. Production BFA majors enroll for 2 cr, Performance BFA majors enroll for 1 cr.**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 418 Lighting Studio**

3 cr. Undergraduate.

Exploration of elements and principles of lighting design and creative design process.

**Prerequisites:** sophomore standing or consent of instructor.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**THEATRE 430 Stage Voice and Speech 1**

3 cr. Undergraduate.

Exploration of vocal anatomy, breath and breath support for speech, individual vocal habits and the actor's vocal warm-up.

**Prerequisites:** advanced to major in Theatre BFA Performance or consent of instructor.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 431 Stage Voice and Speech 2**

3 cr. Undergraduate.

Continuation of THEATRE 430.

**Prerequisites:** a grade of C or better in THEATRE 430(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 432 Advanced Theatre Practicum**

1-6 cr. Undergraduate.

Advanced level practical work on live stage or studio events in any area of production, design, management or performance.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 435 Production Management**

3 cr. Undergraduate.

Theatre management processes utilizing leadership, problem-solving, and project management skills for budgeting, scheduling, personnel and facility management, and season planning.

**Prerequisites:** junior standing or consent of instructor.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 437 Sound Design and Digital Editing**

3 cr. Undergraduate.

Skill development in designing sound and using digital editing systems to create sound effects, sound-scaping and basic music composition for storytelling on the stage.

**Prerequisites:** sophomore standing or consent of instructor.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 440 Physical Performance 1**

3 cr. Undergraduate.

Training and exercises to create physical awareness, skills, and presence in space for performance through movement, improvisation, and sensory/composition work.

**Prerequisites:** advanced to major in Theatre BFA Performance or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 441 Physical Performance 2**

3 cr. Undergraduate.

Physical exercises, improvisation, and text work to deepen the connection between actor and imagination utilizing full bodywork for creating character and dramatic action.

**Prerequisites:** a grade of C or better in THEATRE 440(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 448 How to be a Teaching Artist**

3 cr. Undergraduate.

Understanding and utilizing creative drama and other arts-in-education techniques to enhance experiential learning in classrooms and other educational venues.

**Prerequisites:** soph st or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 463 Master Class in Professional Theatre Study**

1-6 cr. Undergraduate.

Ongoing development of aesthetic and professional practices in performance.

**Prerequisites:** advanced to major in Theatre BFA Performance and a grade of C or better in THEATRE 230(P); or consent of instructor.

**Course Rules:** May be retaken twice.

**Last Taught:** Fall 2020, Fall 2018, Fall 2017, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 465 Theatre Capstone: BA Theatre Practices**

3 cr. Undergraduate.

Theatre projects that reflect students' skills in making theatre, engaging in community, and/or within cultural, educational, and business settings. Research presentation required.

**Prerequisites:** a grade of C or better in THEATRE 320(P) and THEATRE 260(P); or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 470 Acting Technique 3**

3 cr. Undergraduate.

Development of basic acting skills and application to texts. Emphasis on psycho-physical technique, dramatic action, personalization, expressive use of self.

**Prerequisites:** advanced to major in Theatre BFA Performance or consent of instructor.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 471 Acting Technique 4**

3 cr. Undergraduate.

Fundamentals of acting in classical texts.

**Prerequisites:** a grade of C or better in THEATRE 470(P) or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 472 Performance Capstone in Musical Theatre**

3 cr. Undergraduate.

Creation of capstone performance for Musical Theatre track.

**Prerequisites:** a grade of C or better in THEATRE 408(P) and consent of program.

**Course Rules:** May be retaken to a max of 6 cr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 473 Theatre in Elementary Education**

3 cr. Undergraduate.

Theatre experiences for growth and development of elementary school child. Discussion, lectures, and experimentation, analysis of materials, age groups, and situations. Teaching of children's theatre classes.

**Prerequisites:** advanced to major in Theatre Education, or consent of program; and a grade of B or better in ED PSY 330(P) or equivalent.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 474 Theatre in Secondary Education**

3 cr. Undergraduate.

Methods and philosophy of teaching theatre in the secondary school. Theory and practice in solving problems arising in practical teaching situations. Observation of Theatre classes.

**Prerequisites:** advanced to major in Theatre Education, or consent of program; and a grade of B or better in ED PSY 330(P) or equivalent.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 475 Rehearsal and Performance:**

2-3 cr. Undergraduate.

Practical experience in the preparation, rehearsal, stage management or performance of theatrical productions.

**Prerequisites:** consent of instructor.

**Course Rules:** May be retaken for credit to max of 12 cr. Credit granted per production assignment.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 480 Leadership Skills for Theatre Management**

3 cr. Undergraduate.

Development of management skills for organizing and running theatrical productions by understanding personal leadership styles, communication techniques, conflict resolution, and problem-solving within the artistic process.

**Prerequisites:** sophomore standing or consent of instructor.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 484 Field Work in Theatre**

1-3 cr. Undergraduate/Graduate.

Theatre education field experiences in schools, agencies, and institutions.

**Prerequisites:** advanced to major in Theatre Education and consent of program.

**Course Rules:** May be retaken to max of 3 sem.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 484G Field Work in Theatre**

1-3 cr. Undergraduate/Graduate.

Theatre education field experiences in schools, agencies, and institutions.

**Prerequisites:** advanced to major in Theatre Education and consent of program.

**Course Rules:** May be retaken to max of 3 sem.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 485 Elementary Level Student Teaching in Theatre**

2-6 cr. Undergraduate/Graduate.

Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of Theatre faculty; weekly seminar; portfolio development.

**Prerequisites:** advanced to major in Theatre Education, consent of program, and completion of all track required courses, a minimum of 2.75 cumulative GPA; and a GPA of 3.0 in theatre core or Praxis II passing score.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 485G Elementary Level Student Teaching in Theatre**

2-6 cr. Undergraduate/Graduate.

Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of Theatre faculty; weekly seminar; portfolio development.

**Prerequisites:** advanced to major in Theatre Education, consent of program, and completion of all track required courses, a minimum of 2.75 cumulative GPA; and a GPA of 3.0 in theatre core or Praxis II passing score.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 486 Secondary Student Teaching in Theatre**

2-6 cr. Undergraduate/Graduate.

Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of the Theatre faculty; weekly seminar; portfolio development.

**Prerequisites:** advanced to major in Theatre Education, consent of program, and completion of all track required courses, a minimum of 2.75 cumulative GPA; and a GPA of 3.0 in theatre core or Praxis II passing score.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 486G Secondary Student Teaching in Theatre**

2-6 cr. Undergraduate/Graduate.

Student teaching experience in cooperating school systems in or near Milwaukee; supervision by mentor-teacher and members of the Theatre faculty; weekly seminar; portfolio development.

**Prerequisites:** advanced to major in Theatre Education, consent of program, and completion of all track required courses, a minimum of 2.75 cumulative GPA; and a GPA of 3.0 in theatre core or Praxis II passing score.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 490 Topics in Theatre:**

1-4 cr. Undergraduate/Graduate.

Various forms of theatre processes or theatrical presentation/production. Specific credits and add'l prereq's announced in Schedule of Classes whenever course is offered.

**Prerequisites:** jr st; see Schedule of Classes for add'l prereq's.

**Course Rules:** May be retaken w/chg in topic to max of 8 cr.

**Last Taught:** Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 490G Topics in Theatre:**

1-4 cr. Undergraduate/Graduate.

Various forms of theatre processes or theatrical presentation/production. Specific credits and add'l prereq's announced in Schedule of Classes whenever course is offered.

**Prerequisites:** jr st; see Schedule of Classes for add'l prereq's.

**Course Rules:** May be retaken w/chg in topic to max of 8 cr.

**Last Taught:** Fall 2017, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**THEATRE 497 Study Abroad in Theatre**

1-12 cr. Undergraduate.

Interdisciplinary and foundational exploration of world theatre through exchange programs, performance tours, or foreign cultural study.

**Prerequisites:** acceptance for Study Abroad Prog. Foreign language proficiency required for some programs.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2023, Fall 2018, Summer 2018, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 530 Stage Voice and Speech 3**

3 cr. Undergraduate.

Vocal exploration through analysis of verse and heightened language, recorded voice work, and beginning dialects for the stage.

**Prerequisites:** Theatre 431(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 531 Stage Voice and Speech 4**

3 cr. Undergraduate.

Advanced dialects for stage utilizing individual research and presentation of a dialect focusing on advanced voice and speech work.

**Prerequisites:** Theatre 530(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 540 Physical Performance 3**

3 cr. Undergraduate.

Development of and training in extended physical theatre techniques drawn from current performance research and text study.

**Prerequisites:** Theatre 441(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 541 Physical Performance 4**

3 cr. Undergraduate.

Exploration of movement and acting challenges through rehearsal and performance of new play texts.

**Prerequisites:** Theatre 540(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 570 Acting 5**

3 cr. Undergraduate.

Scene work in pre-modern texts.

**Prerequisites:** Admis to Theatre BFA acting track, Theatre 471(P)

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 571 Acting 6**

3 cr. Undergraduate.

Contemporary Performance Techniques. Work in the development and performance of new and contemporary material through ensemble work and physical theatre techniques.

**Prerequisites:** Admis to Theatre BFA acting track; Theatre 570(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 575 Studio**

1-4 cr. Undergraduate.

Practical application of all phases of production, rehearsal, and performance.

**Prerequisites:** a grade of C or better in THEATRE 214(P) or THEATRE 225(P); or consent of instructor.

**Course Rules:** May be retaken to max of 16 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 675 Advanced Studio**

1-6 cr. Undergraduate.

Advanced practical application of all phases of production, rehearsal, and performance.

**Prerequisites:** Theatre 575(P) or 475(P); & cons instr.

**Course Rules:** May be retaken to max of 12 cr. Credit granted per production assignment.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 681 Seminar in Dramatic Literature:**

3 cr. Undergraduate.

Discussion and research in a specific area of dramatic literature.

**Prerequisites:** cons instr.

**Course Rules:** May be retaken w/chg in topic to 9 cr max.

**Last Taught:** Spring 2013, Spring 2005, Spring 2004, Spring 2001.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 685 Internship in Professional Theatre**

1-6 cr. Undergraduate/Graduate.

Engagement with a professional Theatre in individual discipline area.

**Prerequisites:** jr st.

**Course Rules:** May be retaken to max of 12 cr.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 685G Internship in Professional Theatre**

1-6 cr. Undergraduate/Graduate.

Engagement with a professional Theatre in individual discipline area.

**Prerequisites:** jr st.

**Course Rules:** May be retaken to max of 12 cr.

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 690 Independent Study--Make-Up**

1-6 cr. Undergraduate.

Individual program of supervised study in make-up.

**Prerequisites:** jr st, writ cons instr.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Fall 2018, Fall 2015, Spring 2014, Spring 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 697 Independent Study-Theatre Education and Theatre for Young Audiences**

1-6 cr. Undergraduate/Graduate.

Individual program of supervised study in theatre education and children's theatre.

**Prerequisites:** jr st & cons instr.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 697G Independent Study-Theatre Education and Theatre for Young Audiences**

1-6 cr. Undergraduate/Graduate.

Individual program of supervised study in theatre education and children's theatre.

**Prerequisites:** jr st & cons instr.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Spring 2022, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 699 Independent Study:**

1-6 cr. Undergraduate/Graduate.

Individual program of supervised study in the emphasis area of the instructor's expertise.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Fall 2023, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THEATRE 699G Independent Study:**

1-6 cr. Undergraduate/Graduate.

Individual program of supervised study in the emphasis area of the instructor's expertise.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** May be retaken to max of 9 cr.

**Last Taught:** Fall 2023, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Therapeutic Recreation (THERREC)

**THERREC 103 Life Balance: An Understanding of Leisure**

3 cr.

Introductory survey of the historical, philosophical, sociological, developmental, and cultural aspects of recreation, leisure, and play.

**Prerequisites:** none.

**Course Rules:** CGS HES 103 and THERREC 103 are jointly offered and count as repeats of one another.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 200 Psycho/Social Aspects of Leisure**

3 cr. Undergraduate.

Study of the psychological and sociological aspects of leisure participation.

**Prerequisites:** none.

**Last Taught:** Fall 2007, Spring 2007, Fall 2006, Spring 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 202 Disability: Society and the Person**

3 cr. Undergraduate.

Goals are to introduce and sensitize students to individuals with disabilities and to enable students to understand the psychological and social impact of disability.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 202X Disability: Society and the Person**

3 cr. Undergraduate.

Goals are to introduce and sensitize students to individuals with disabilities and to enable students to understand the psychological and social impact of disability.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 203 Therapeutic Recreation Process**

3 cr. Undergraduate.

Study of Therapeutic Recreation (TR) process including the values and underpinning of practice, and the inter-relationships between TR, health care and human service professionals.

**Prerequisites:** none.

**Course Rules:** Counts as a repeat of THERREC 390 with same topic.

Course taught completely online.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 245 Client Diversity in Health Sciences: An Interdisciplinary Perspective**

3 cr. Undergraduate.

Interdisciplinary instruction on effective service delivery in the health sciences to culturally diverse individuals and families. Emphasis on the complexity of an individual's cultural identity.

**Prerequisites:** soph st or cons instr.

**Course Rules:** BMS(C L Sci)/ComSDis/HCA/Kin(HMS)/OccThpy/TherRec 245 are jointly offered; they count as repeats of one another.

**General Education Requirements:** CD, SS

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 297 Study Abroad - Therapeutic Recreation:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially prepared course work.

**Prerequisites:** Acceptance to Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 300 Therapeutic Recreation Assessment and Documentation**

3 cr. Undergraduate.

Study and practice of therapeutic recreation assessment and documentation techniques.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 303 Inclusive and Disability Programs in the Community**

3 cr. Undergraduate.

Study of concepts and practices related to the delivery of community programs for individuals with disabilities.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 303X Inclusive and Disability Programs in the Community**

3 cr. Undergraduate.

Study of concepts and practices related to the delivery of community programs for individuals with disabilities.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 308 Therapeutic Recreation in Physical Rehabilitation and Behavioral Health**

3 cr. Undergraduate.

Therapeutic recreation services for individuals with physical disabilities and psychiatric disorders.

**Prerequisites:** none.

**Course Rules:** Not open for cr for students with cr in THERREC 304(ER) or THERREC 305(ER).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 309 Therapeutic Recreation in Pediatrics and Gerontology**

3 cr. Undergraduate.

Therapeutic recreation services for children/adolescents and elderly individuals.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** Not open for cr for students with credit in THERREC 306 or THERREC 307.

**Last Taught:** Summer 2023, Spring 2023, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 310 Facilitation Techniques in Therapeutic Recreation**

3 cr. Undergraduate.

Study of various facilitation techniques used in the field of Therapeutic Recreation (TR). Specific emphasis is placed on Leisure Education as a unique modality.

**Prerequisites:** none.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 390 Topics in Therapeutic Recreation:**

1-3 cr. Undergraduate.

Topics of current interest in therapeutic recreation. Specific credits and additional prerequisites will be announced in the Schedule of Classes whenever the course is offered.

**Prerequisites:** none.

**Last Taught:** Fall 2008, Spring 2008, Fall 2007, Fall 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 399 Independent Study in Therapeutic Recreation**

1-3 cr. Undergraduate.

Individualized experience which enables the student to study current topics of interest to the therapeutic recreation specialist.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** May be retaken to max of 3 cr.

**Last Taught:** Summer 2023, UWinterIM 2023, Fall 2022, Summer 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 400 Issues and Trends in Therapeutic Recreation (TR)**

3 cr. Undergraduate.

Examination of the most current issues and trends in the field and advancement of the profession.

**Prerequisites:** THERREC 308(P) or consent of instructor.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**THERREC 401 Therapeutic Recreation Internship and Seminar**

12 cr. Undergraduate.

Therapeutic recreation field instruction at approved agencies for forty hours per week for a full semester. Seminar to prepare students for professional involvement.

**Prerequisites:** must have completed all course work in the TherRec major.

**Last Taught:** Fall 2007, Spring 2007, Fall 2006, Summer 2006.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Translation and Interpreting (TRNSLTN)

**TRNSLTN 201 Introduction to Translation and Interpreting Studies**

3 cr. Undergraduate.

Linguistic and cultural aspects of globalization analyzed alongside emerging practices in various language service professions, exploration of multilingual communication and cross-cultural interaction in a range of fields and media.

**Prerequisites:** none.

**General Education Requirements:** HU

**Last Taught:** Spring 2020, Spring 2018, Spring 2016, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 400 Consecutive Interpreting**

3 cr. Undergraduate.

Professional protocols and practices of consecutive interpreting in different settings; exercises for improvement of split-attention, short-term memory, note-taking, information organization, and preparation.

**Prerequisites:** junior standing and sixth semester of a foreign language.

**Last Taught:** Fall 2023, Fall 2021, Fall 2017, Fall 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 411 Ethics in Translation and Interpreting**

3 cr. Undergraduate.

Frameworks for language-services provision; codes of ethics and standards of practice in different T&I environments; and ethical decision-making in hypothetical T&I scenarios.

**Prerequisites:** sixth semester of any language or consent of instructor.

**Last Taught:** Fall 2022, Fall 2018, Fall 2016, Fall 2012.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 420 Topics in Translation:**

1-3 cr. Undergraduate.

Specialized translation skills courses targeting the translation industry. **Prerequisites:** additional prerequisites may be required, depending on the topic.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 422 Simultaneous Interpreting**

3 cr. Undergraduate.

Professional protocols and practices of simultaneous interpreting in different settings; exercises for development of dual-tasking, preparation, and performance skills; exploration of standard and emerging technologies in simultaneous interpreting.

**Prerequisites:** junior standing and consent of instructor.

**Course Rules:** Counts as repeat of GLOBAL 499 with the same topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 427 Project Management in Translation**

3 cr. Undergraduate.

Principles of project management and quality assurance in translation industry; standards and techniques to prepare students for jobs in the language services market.

**Prerequisites:** junior standing.**Last Taught:** Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 430 Internship in Translation/Interpreting**

3 cr. Undergraduate.

Internship offering on-the-job experience to students with a background in translation, interpreting, or related language services.

**Prerequisites:** junior standing and consent of Translation Program Director.**Last Taught:** Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 450 Community Interpreting and Translation**

3 cr. Undergraduate.

Practice of simultaneous and consecutive interpreting; sight translation; note-taking; technology in interpreting.

**Prerequisites:** junior standing and consent of instructor.**Course Rules:** Previously TRNSLTN 550. Counts as repeat of GLOBAL 499 with the same topic.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 530 Business and Professional Aspects of Translation**

3 cr. Undergraduate/Graduate.

Practical skills and business planning needed to succeed as a freelancer or project manager in language services industry; topics include entrepreneurship, networking, marketing, financial planning, accounting, and risk management.

**Prerequisites:** junior standing and completion of one of the following: FRENCH 415(P), GERMAN 425(P), SPANISH 347(P), SPANISH 707(P), TRNSLTN 415(P), TRNSLTN 425(P), or TRNSLTN 707(P).**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 530G Business and Professional Aspects of Translation**

3 cr. Undergraduate/Graduate.

Practical skills and business planning needed to succeed as a freelancer or project manager in language services industry; topics include entrepreneurship, networking, marketing, financial planning, accounting, and risk management.

**Prerequisites:** junior standing and completion of one of the following: FRENCH 415(P), GERMAN 425(P), SPANISH 347(P), SPANISH 707(P), TRNSLTN 415(P), TRNSLTN 425(P), or TRNSLTN 707(P).**Last Taught:** Fall 2023, Spring 2022.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 699 Independent Reading**

1-3 cr. Undergraduate.

Advanced independent work under the supervision of a faculty or instructional academic staff member. Student must submit a study proposal. For further information, consult program coord.

**Prerequisites:** jr st; 2.5 GPA; writ cons instr, dept chair & asst dean for SAS.**Course Rules:** May be retaken w/chg in topic to 9 cr max.**Last Taught:** Summer 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 700 Consecutive Interpreting**

3 cr. Graduate.

Professional protocols and practices of consecutive interpreting in different settings; exercises for improvement of split-attention, short-term memory, note-taking, information organization, and preparation.

**Prerequisites:** graduate standing and consent of Translation Program Director.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 704 Introduction to Translation: Arabic to English**

3 cr. Graduate.

Translating texts from Arabic to English, including media articles, political texts, and literary and consumer-oriented texts. Identifying and developing translation strategies; proofreading and editing own work.

**Prerequisites:** graduate standing and admitted to the Translation Program, or consent of instructor.**Last Taught:** Fall 2017, Fall 2015, Fall 2013.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 706 Introduction to Translation: French to English**

3 cr. Graduate.

Basics of French to English translation, including translation of real world texts, document terminology, identify translation strategies and tools, research parallel texts, proofreading and editing.

**Prerequisites:** graduate standing in Translation Program or consent of instructor.**Course Rules:** FRENCH 706 and TRNSLTN 706 are jointly offered and count as repeats of one another. Counts as a repeat of FRENCH 415(425) or TRNSLTN 415(425) if taken for graduate credit.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 707 Introduction to Translation: Spanish to English**

3 cr. Graduate.

Basics of Spanish to English translation: including the translation of 'real world' texts, document terminology, identify translation strategies and tools, research parallel texts, proofreading and editing.

**Prerequisites:** graduate standing and SPANISH 308(P) or equivalent.**Course Rules:** Counts as a repeat of SPANISH 707. Not open for credit to students with graduate credit in SPANISH 347.**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 708 Introduction to Translation: German to English**

3 cr. Graduate.

Basic German translation skills using a variety of texts, focusing on general texts, such as historical immigrant letters and on specialized texts, including technical translation.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 709 Seminar in Literary and Cultural Translation**

3 cr. Graduate.

Development of translation strategies focusing on a variety of literary genres, using theoretical premises influencing literary translation and tackling practical matters such as publication processes.

**Prerequisites:** graduate standing.**Course Rules:** MALLT 709 and TRNSLTN 709 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 710 Comparative Systems for Translation**

3 cr. Graduate.

Comparative systems in society; how those systems relate to field of translation; how to make informed translation choices based on subtle differences in systems.

**Prerequisites:** graduate standing.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 711 Ethics in Translation and Interpreting**

3 cr. Graduate.

Frameworks for language-services provision; codes of ethics and standards of practice in different translation and interpreting environments; and ethical decision-making in hypothetical translation and interpreting scenarios.

**Prerequisites:** graduate standing and admitted to the Translation Program, or consent of instructor.**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 716 Seminar in Advanced Translation: French to English**

3 cr. Graduate.

Use of research and documentation strategies learned in TRNSLTN 706 to translate legal, financial, medical, and technical texts from French to English, gist translation and self-assessment skills.

**Prerequisites:** graduate standing or consent of instructor.**Course Rules:** FRENCH 716 and TRNSLTN 716 are jointly offered; they count as repeats of one another.**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 717 Seminar in Advanced Translation: Spanish to English**

3 cr. Graduate.

Use of research and documentation strategies learned in TRNSLTN 707 to translate legal, financial, medical, and technical texts from Spanish to English, gist translation and self-assessment skills.

**Prerequisites:** graduate standing and SPANISH 707(P), or graduate credit in SPANISH 347(P), or consent of Translation Program Director.**Course Rules:** Counts as repeat of SPANISH 717. Not open for credit to students with graduate credit in SPANISH 447.**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 718 Seminar in Advanced German Translation**

3 cr. Graduate.

Work in settings that mirror professional translation practice; incorporation of strategies learned in TRNSLTN 708, documentation of terminology, research of parallel texts, and critical assessment of work; legal, financial, medical and technical texts.

**Prerequisites:** graduate standing, a grade of B or better in TRNSLTN 708(P), and admitted to the Translation Program; or consent of instructor.**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Spring 2017.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 719 Introduction to Translation: Russian to English**

3 cr. Graduate.

Basic Russian to English translation, focusing on honing research skills and identifying translation strategies and tools; translation texts used: personal documents, news, and medical.

**Prerequisites:** graduate standing.**Last Taught:** Fall 2023, Fall 2020, Fall 2018, Fall 2016.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 720 Topics in Translation:**

1-3 cr. Graduate.

Advanced and specialized translation skills courses targeting the translation industry.

**Prerequisites:** graduate standing. Additional prerequisites may be required, depending on topic.**Course Rules:** Retakable w/chg in topic to 9 cr max.**Last Taught:** Fall 2017, Spring 2017, Spring 2016, Spring 2011.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 722 Simultaneous Interpreting**

3 cr. Graduate.

Professional protocols and practices of simultaneous interpreting in different settings; exercises for development of dual-tasking, preparation, and performance skills; exploration of standard and emerging technologies in simultaneous interpreting.

**Prerequisites:** graduate standing and consent of instructor.**Course Rules:** Counts as a repeat of TRNSLTN 720 with the same topic.**Last Taught:** Spring 2022, Spring 2018.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**TRNSLTN 726 Computer-Assisted Translation**

3 cr. Graduate.

Introduction to computer-assisted translation (CAT) tools for professional translators focusing on the basic use of CAT tools, terminology management, translation memory creation/use, hands-on practice working with industry standard software programs.

**Prerequisites:** graduate standing and completion of an approved introductory graduate level translation course, or consent of instructor.**Last Taught:** Spring 2023, Spring 2021, Spring 2020, Spring 2019.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 727 Project Management in Translation**

3 cr. Graduate.

Principles of project management and quality assurance in the global language services industry; standards and techniques to prepare students for jobs in the language services market.

**Prerequisites:** graduate standing and admitted to the Translation Program.

**Course Rules:** Counts as repeat of TRNSLTN 720 with the same topic.

**Last Taught:** Spring 2021, Spring 2019, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 728 Editing for Translation**

3 cr. Graduate.

Translation industry standards and best practices for quality assurance. Students edit texts in English, applying style guides and implementing effective research techniques.

**Prerequisites:** graduate standing and consent of Translation Program Director.

**Course Rules:** Counts as repeat of TRNSLTN720 w/ same title.

**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 729 Seminar in Advanced Translation: Russian to English**

3 cr. Graduate.

Building of competence from TRNSLTN 719, including understanding of Russian syntax and grammar and translation techniques through discussions, practical exercises, self-assessment and self-markup assignments; translation texts used: business, medical, technical, and legal.

**Prerequisites:** graduate standing and TRNSLTN 719(P); or consent of instructor.

**Last Taught:** Spring 2021, Spring 2019, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 730 Internship in Translation/Interpreting**

3 cr. Graduate.

Internship offering on-the-job experience to graduate students in Translation and Interpreting Studies.

**Prerequisites:** TRNSLTN 726(P) and approved graduate level advanced translation course.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 750 Community Interpreting and Translation**

3 cr. Graduate.

Foundations of interpreting and translating in community settings; culturally affirming translation and interpreting practices; resiliency strategies for translation and interpreting professionals; skill building in translation and interpreting-adjacent language services.

**Prerequisites:** graduate standing and consent of instructor.

**Last Taught:** Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 790 Thesis**

1-6 cr. Graduate.

Independent study and research on a master's thesis under supervision of the student's advisory committee.

**Prerequisites:** graduate standing and consent of advisory committee.

**Course Rules:** Retakable to 6 cr max.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 799 Independent Study**

1-6 cr. Graduate.

Independent study.

**Prerequisites:** graduate standing.

**Course Rules:** Retakeable up to 9 cr w/ chg in topic.

**Last Taught:** Fall 2023, Summer 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 820 Translation Theory**

3 cr. Graduate.

Survey of translation theory from historical to contemporary thinkers; study of cultural and ideological forces shaping translation with research paper engaging in theoretical thought about translation.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**TRNSLTN 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Urban Planning (URBPLAN)

**URBPLAN 140 Issues in Contemporary Urban Planning**

3 cr. Undergraduate.

To examine issues that cities are working on, including sustainability, transportation, economic development, and housing, and learn how planners address these.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 141 Urban Planning Solutions to Contemporary Urban Problems**

3 cr. Undergraduate.

Professional role of urban planners in addressing social and economic justice considerations, including fair housing, economic opportunity, and health and environmental disparities.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 292 Current Planning Issues:**

3 cr. Undergraduate.

This course provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis.

**Prerequisites:** soph st.

**Course Rules:** May be retaken w/content change to 9 cr max.

**Last Taught:** Spring 2011, Summer 1990, Fall 1989, Spring 1988.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 315 Great Cities of the World: Their Growth and Guided Urbanization**

3 cr. Undergraduate.

Great cities of the world, how they were built and developed. Culture, politics and economics, their role in urban planning and the built form.

**Prerequisites:** soph st.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 316 Planning for the Great Cities of America**

3 cr. Undergraduate.

The study of planning and development programs of large American cities and their approaches to growth, change, and decay, with a view to future solutions.

**Prerequisites:** soph st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 350 Social Justice, Urban Planning and the New Multicultural America**

3 cr. Undergraduate.

Examination of historical, sociological, economic and political relationships that impact urban communities. Community and social justice issues are addressed from a planning perspective.

**Prerequisites:** soph st.

**General Education Requirements:** CD

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 399 Independent Study**

3 cr. Undergraduate.

Independent investigation of issues related to urban planning.

**Prerequisites:** jr st; cons instr.

**Course Rules:** May not be retaken for cr.

**Last Taught:** Summer 2022, Spring 2022, Spring 2021, Summer 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 491 Urban Planning Internship**

3 cr. Undergraduate.

Practical urban planning experience with a government agency or private firm under the supervision of a working expert and a faculty member.

**Prerequisites:** sr st & cons instr.

**Last Taught:** Fall 2021, Spring 2020, Fall 2018, Summer 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 497 Study Abroad:**

3-12 cr. Undergraduate.

Field study designed to provide relevant course work for a study abroad program in urban planning.

**Prerequisites:** acceptance to Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** UWinteriM 2020, UWinteriM 2018, UWinteriM 2017, UWinteriM 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 591 Introduction to Urban Geographic Information Systems (GIS) in Planning**

3 cr. Undergraduate.

Use of spatially related information including GIS and land record systems for improved productivity and decision making in service delivery, management, policy planning and land development.

**Prerequisites:** jr st.

**Course Rules:** Counts as repeat of UrbPlan 692 with same title.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 630 Budgeting and Finance in the Public Sector**

3 cr. Undergraduate/Graduate.

Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.

**Prerequisites:** sr st or cons instr.

**Course Rules:** Jointly-offered w/& counts as repeat of Pub Adm 630(Pol Sci 630).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 630G Budgeting and Finance in the Public Sector**

3 cr. Undergraduate/Graduate.

Examination of the budgeting process in the public sector; development of skills in budgeting and financial management. Topics include capital budgeting, debt management, revenue forecasting, and auditing.

**Prerequisites:** sr st or cons instr.

**Course Rules:** Jointly-offered w/& counts as repeat of Pub Adm 630(Pol Sci 630).

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 651 Land Use Planning Practice**

3 cr. Undergraduate/Graduate.

Specific land planning methods and applications (subdivision regulation, zoning, site plan review, building permit process) used to implement community plans.

**Prerequisites:** sr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 651G Land Use Planning Practice**

3 cr. Undergraduate/Graduate.

Specific land planning methods and applications (subdivision regulation, zoning, site plan review, building permit process) used to implement community plans.

**Prerequisites:** sr st.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 655 Negotiation Theory and Practice for Urban Planners**

3 cr. Undergraduate/Graduate.

Negotiation theory and practice, focusing on skills used by planners in balancing the needs of general public with those of private interests.

**Prerequisites:** sr st or cons instr.

**Course Rules:** Counts as repeat of UrbPlan 692 with same title.

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 655G Negotiation Theory and Practice for Urban Planners**

3 cr. Undergraduate/Graduate.

Negotiation theory and practice, focusing on skills used by planners in balancing the needs of general public with those of private interests.

**Prerequisites:** sr st or cons instr.**Course Rules:** Counts as repeat of UrbPlan 692 with same title.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 662 Public Sector Influence on Real Estate Development**

3 cr. Undergraduate/Graduate.

Introduction to contemporary trends in urban redevelopment; focus on planning and development techniques used to revitalize declining urban areas.

**Prerequisites:** jr st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 662G Public Sector Influence on Real Estate Development**

3 cr. Undergraduate/Graduate.

Introduction to contemporary trends in urban redevelopment; focus on planning and development techniques used to revitalize declining urban areas.

**Prerequisites:** jr st.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 684 Planning Local Economic Development**

3 cr. Undergraduate/Graduate.

Exploration of the role of planning in the generation, evaluation, and implementation of policies for the development and revitalization of communities.

**Prerequisites:** jr st & cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 684G Planning Local Economic Development**

3 cr. Undergraduate/Graduate.

Exploration of the role of planning in the generation, evaluation, and implementation of policies for the development and revitalization of communities.

**Prerequisites:** jr st & cons instr.**Last Taught:** Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 692 Special Topics in Urban Planning:**

1-3 cr. Undergraduate/Graduate.

Provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis. Specific cr &amp; any additional prereqs announced in Schedule of Classes whenever course is offered.

**Prerequisites:** junior standing or consent of instructor.**Course Rules:** May be retaken with change in topic to max of 9 cr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 692G Special Topics in Urban Planning:**

1-3 cr. Undergraduate/Graduate.

Provides a format for the development and presentation of new material in Urban Planning on an experimental, one-term basis. Specific cr &amp; any additional prereqs announced in Schedule of Classes whenever course is offered.

**Prerequisites:** junior standing or consent of instructor.**Course Rules:** May be retaken with change in topic to max of 9 cr.**Last Taught:** Fall 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 701 Introduction to Land Use Planning**

1 cr. Graduate.

Introduction to contemporary land use planning emphasizing the four primary tools of development regulation: comprehensive planning, zoning, subdivision regulation, and capital improvement programming.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 702 Introduction to Planning Law**

2 cr. Graduate.

Constitutional and statutory authority for and limits on local government regulation of land use. Application of key concepts, including police power, due process, and property.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 711 Planning Theories and Practice**

3 cr. Graduate.

Theories about how planners should act in the planning process. History, values, and ethics of the profession; methods of participation; discussion of power in planning.

**Prerequisites:** grad st.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 720 Urban Development Theory and Planning**

3 cr. Graduate.

Spatial, social, economic, and political processes that shape urban development. Application of these processes to formulate and critique urban plans and policies.

**Prerequisites:** grad st; admis to UrbPlan or cons instr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 721 Applied Planning Methods**

3 cr. Graduate.

Data sources and analysis techniques for urban planning. Survey design, economic analyses, benefit/cost analysis, market areas; the complexities of public and private data sources.

**Prerequisites:** grad st**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**URBPLAN 740 Data Analysis Methods I**

3 cr. Graduate.

Application of quantitative methods most commonly used in urban planning and analysis of the built environment.

**Prerequisites:** grad st; admis to UrbPlan prog, Arch prog, or cons istr.**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**URBPLAN 750 Land Use Planning Practice**

3 cr. Graduate.

Specific land planning methods and applications (subdivision regulation, zoning, site plan review, building permit process) used to implement community plans.

**Prerequisites:** graduate standing.

**Course Rules:** Previously URBPLAN 651G.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 751 Introduction to Urban Design and Physical Planning**

3 cr. Graduate.

Planning for human needs as related to the physical layout and spatial design of urban environments.

**Prerequisites:** grad st.

**Last Taught:** Fall 2022, Fall 2020, Fall 2018, Fall 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 755 Negotiation Theory and Practice for Urban Planners**

3 cr. Graduate.

Negotiation theory and practice, focusing on skills used by planners in balancing the needs of general public with those of private interests.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as repeat of URBPLAN 692 with same title.

Previously URBPLAN 655G.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 760 Public Sector Influence on Real Estate Development**

3 cr. Graduate.

Introduction to contemporary trends in urban redevelopment; focus on planning and development techniques used to revitalize declining urban areas.

**Prerequisites:** graduate standing.

**Course Rules:** Previously URBPLAN 662G.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 762 Housing Markets and Public Policy**

3 cr. Graduate.

An examination of national and local housing markets, their components and operations, and the impacts on them of a variety of public and private actions.

**Prerequisites:** grad st.

**Last Taught:** Spring 2023, Fall 2021, Fall 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 771 Transportation Policy and Planning**

3 cr. Graduate.

Seminar on the evolution of urban transportation systems and policies, transportation finance, land use and transportation interactions, and transportation planning and policy evaluation techniques.

**Prerequisites:** grad st or cons instr.

**Last Taught:** Spring 2017, Spring 2016, Spring 2015, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 772 Pedestrian and Bicycle Transportation**

3 cr. Graduate.

Current practices in pedestrian and bicycle transportation, including institutional frameworks, benefits, safety, facility design, network development, demand estimation, suitability assessment, and performance measurement.

**Prerequisites:** grad st

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 784 Planning Local Economic Development**

3 cr. Graduate.

Trends affecting community growth with a focus on successful economic development and equitable practices.

**Prerequisites:** graduate standing.

**Course Rules:** Previously URBPLAN 684G.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 791 Introduction to Urban Geographic Information Systems for Planning**

3 cr. Graduate.

Use of spatially related information including gis and land records systems for improved productivity and decision making in service delivery, management, policy-planning, and land development.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 792 Using Urban Geographic Information Systems (GIS) for Planning**

3 cr. Graduate.

A 'hands on' course in GIS using commercial GIS software in a computer laboratory setting to provide experience solving problems related to planning and government.

**Prerequisites:** graduate standing and one of the following:

URBPLAN 791(P), GEGO 525(P), GEOG 726(P); or consent of instructor.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 793 Applied Projects in Urban Geographic Information Systems**

3 cr. Graduate.

Use of a geographic information system (GIS) and actual data from local government to analyze a real world problem or issue requiring spatial data analysis.

**Prerequisites:** grad st; Urbplan 791 or cons instr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 794 Internet Geographic Information Systems (GIS)**

3 cr. Graduate.

Seminar on theoretical background and hands-on experience with technologies for developing GIS applications on the Internet, the web, and wireless networks.

**Prerequisites:** grad st; UrbPlan 792(P) or Geog 625(P); or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 797 Study Abroad:**

3-12 cr. Graduate.

Field study designed to provide relevant course work for a study abroad program in urban planning.

**Prerequisites:** grad st; acceptance to Study Abroad Program

**Last Taught:** UWinteriM 2020, UWinteriM 2018, UWinteriM 2017, UWinteriM 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 810 Planning Policy Analysis**

6 cr. Graduate.

Application of planning analysis tools in the context of policy issues involving planners; a case studies approach stressing both policy analysis and the role of the planner.

**Prerequisites:** grad st; UrbPlan 701(P), 702(P), 711(P), 720(P), 721(P), 740(P); or cons instr.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 811 Applied Planning Workshop**

3 cr. Graduate.

Application of planning concepts, principles, processes and techniques to a selected realistic problem, issue, or project context at an appropriate scale ranging from the neighborhood to the state.

**Prerequisites:** grad st; UrbPlan 810(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 857 Urban Design as Public Policy**

3 cr. Graduate.

Orients students in urban planning to urban design problems as matters of public policy with focus on the analysis and implementation of urban design proposals rather than on the techniques used to generate such proposals.

**Prerequisites:** grad st.

**Course Rules:** Not open to students who have cr in Arch 749 which is identical to UrbPlan 857.

**Last Taught:** Fall 2023, Fall 2021, Fall 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 858 Studio in Urban Design and Physical Planning**

6 cr. Graduate.

Projects and seminars apply urban planning principles to problems of urban design and physical planning to develop students' abilities to evaluate and effectively criticize proposals.

**Prerequisites:** grad st; Urbplan 751(P) or 857(P).

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 880 Urban Sustainability**

3 cr. Graduate.

Urban sustainable challenges and opportunities that impact the built environment. Includes review of traditional and innovative sustainable practices and regulations.

**Prerequisites:** graduate standing.

**Course Rules:** GEOG 880 and URBPLAN 880 are jointly offered and counts as a repeat of one another.

**Last Taught:** Fall 2023, Spring 2016, Spring 2015, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable to 6 cr max. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2017, Spring 2017, Fall 2016, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 990 Graduate Thesis**

3-6 cr. Graduate.

Thesis under the direction of graduate planning faculty.

**Prerequisites:** grad st, cons instr; successful completion of comprehensive exam.

**Course Rules:** May be retaken to max of 6 cr, which can be substituted for elective credits.

**Last Taught:** Fall 2018, Spring 2016, Fall 2014, Spring 2014.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 991 Legislative/Administrative Agency Internship**

3-6 cr. Graduate.

Research project assignments with elected legislative officials and administrative agencies. Assignments will be cooperatively developed and supported by an integrating seminar discussing both experience and theory in a planning implementation context.

**Prerequisites:** grad st; cons instr.

**Course Rules:** May be retaken with change in topic to max of 6 cr.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 992 Seminar in Urban Planning:**

1-3 cr. Graduate.

Advanced study of special topics in urban planning. Specific cr & any additional prereqs announced in schedule of classes whenever course is offered.

**Prerequisites:** grad st or cons instr.

**Course Rules:** Retakeable with topic change to max of 6 cr.

**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URBPLAN 999 Independent Study**

1-3 cr. Graduate.

Individual work in urban planning. Variable content course.

**Prerequisites:** grad st; cons instr.

**Course Rules:** Retakeable to max of 9 cr.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Urban Studies Program (URB STD)

**URB STD 150 Multicultural America**

3 cr. Undergraduate.

Cross-cultural study of U.S. ethnic and racial identities from an urban studies perspective, with attention to African-, Asian-, Hispanic-, and Native-American experiences.

**Prerequisites:** none.

**Course Rules:** Cultures and Communities Prog course; req'd service learning component.

**General Education Requirements:** CD, SS

**Last Taught:** UWinteriM 2024, Summer 2023, UWinteriM 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 193 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.

**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 250 Exploring the Urban Environment**

3 cr. Undergraduate.

The nature of the city, the processes that effect change, and the future of the city.

**Prerequisites:** none.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 289 Internship in Urban Studies, Lower Division**

1-6 cr. Undergraduate.

Application of basic principles of Urban Studies in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** intro course in Urb Std or related area; 2.25 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Spring 2021, Summer 2017, Fall 2015, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2022, UWinterIM 2020, Fall 2019, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 299 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period. Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** none; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 360 Perspectives on the Urban Scene:**

3 cr. Undergraduate.

Topics related to the structure, growth, and change of the urban environment.

**Prerequisites:** jr st.

**Course Rules:** May be retaken w/chg in topic to 6 cr max.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 377 Urbanism and Urbanization**

3 cr. Undergraduate.

Theoretical perspectives, substantive themes, and methodological approaches to the study of cities. Impact of historical development and changing spatial patterns on social behavior in metropolitan areas.

**Prerequisites:** junior standing or higher and completion of a prior SOCIOL course or URB STD 250(P). Open to special students.

**Course Rules:** SOCIOL 377 and URB STD 377 are jointly-offered and count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 381 Honors Seminar:**

3 cr. Undergraduate.

Selected topics.

**Prerequisites:** sophomore standing, HONORS 200(P), and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** SS

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 450 Urban Growth and Development: A Global View**

3 cr. Undergraduate/Graduate.

Urban growth and development from an international perspective.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2017, Spring 1985.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 450G Urban Growth and Development: A Global View**

3 cr. Undergraduate/Graduate.

Urban growth and development from an international perspective.

**Prerequisites:** jr st or cons instr.

**Last Taught:** Fall 2017, Spring 1985.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 489 Internship in Urban Studies, Upper Division**

1-6 cr. Undergraduate.

Application of advanced principles of urban studies in a business, organizational, educational, political, or other appropriate setting.

**Prerequisites:** jr st; 300-level or above course in Urb Std or related area; 2.5 gpa; cons supervising faculty member.

**Course Rules:** One cr earned for academic work based on 40 hours in internship. May be retaken to 6 cr max.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog, contact CIE Overseas Programs, PER 166, 229-5182.

**Last Taught:** UWinterIM 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work level, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** jr st; acceptance for Study Abroad Prog, contact CIE Overseas Programs, PER 166, 229-5182.

**Last Taught:** UWinterIM 2020, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 499 Ad Hoc:**

1-6 cr. Undergraduate.

Course created expressly for offering in a specified enrollment period.

Requires only dept & assoc dean approval. In exceptional circumstances, can be offered in one add'l sem.

**Prerequisites:** jr st; add'l prereqs may be assigned to specific topic.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Fall 2009, Summer 1986, Spring 1986, Summer 1984.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 600 Capstone Seminar in Urban Studies**

3 cr. Undergraduate.

Seminar on concepts, methods, and approaches to field of Urban Studies; readings and discussions on urban scholarship; students produce research proposals tailored to their interests.

**Prerequisites:** sr st; declared Urb Std major.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 699 Independent Reading**

3 cr. Undergraduate.

Advanced readings and study in Urban Studies.

**Prerequisites:** jr st; 2.5 gpa; cons instr, dept chair, & asst dean for SAS.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2015, Fall 2012, Spring 2012, Fall 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 888 Candidate for Degree**

0 cr. Graduate.

Available for master's students who must meet minimum credit load requirement.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Summer 2022, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 901 Urban Social Structure**

3 cr. Graduate.

Comprehensive analysis of the emergence and institutionalization of cultural and social patterns in urban settings; and future American urban social structures.

**Prerequisites:** graduate standing.

**Course Rules:** SOCIOL 901 and URB STD 901 are jointly offered and count as repeats of one another.

**Last Taught:** Fall 2023, Spring 2023, Spring 2021, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 913 Seminar in Urban Political Process**

3 cr. Graduate.

Analysis of the forces and processes that shape urban political life, with particular emphasis on patterns of government, political culture, power structures, and civic participation in urban and metropolitan communities.

**Prerequisites:** grad st.

**Course Rules:** Pol Sci 913 & Urb Std 913 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Fall 2019, Spring 2016, Spring 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 921 Seminar: Research Methods in Urban Studies**

3 cr. Graduate.

Methodological orientations and techniques in urban studies: philosophy of science, conceptualization measurements, research designs, data collection, data analysis.

**Prerequisites:** grad st.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 927 Urban Internship**

2-3 cr. Graduate.

Advanced application and analysis of theory and acquired skills in supervised agency assignment.

**Prerequisites:** grad st.

**Course Rules:** Retakable to 6 cr max.

**Last Taught:** Fall 2023, Spring 2018, Fall 2017, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 945 The Internal Structure of the City**

3 cr. Graduate.

The interaction of forces responsible for the evolution of the city as a spatial form and the allocation of economic and social activity within the spatial configuration.

**Prerequisites:** grad st.

**Course Rules:** Geog 945 & Urb Std 945 are jointly-offered; they count as repeats of one another.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 965 Municipal Management**

3 cr. Graduate.

The political, social, and economic contexts in which the urban manager functions, with an emphasis on managing municipal service delivery and resources.

**Prerequisites:** grad st.

**Course Rules:** Pub Adm 965(Pol Sci 965) & Urb Std 965 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2023, Spring 2019, Spring 2017, Spring 2015.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 971 Seminar on the History of American Urban Problems**

3 cr. Graduate.

Historical analysis of the current problems of housing, race relations, the powers and functions of municipal government, law enforcement, and city planning in the United States.

**Prerequisites:** grad st.

**Course Rules:** Hist 971 & Urb Std 971 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Fall 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 979 Qualitative Research Methods**

3 cr. Graduate.

Seminar on logic, design, and presentation of social science research. Inductive and qualitative methods, theory construction, and ethics and procedures of research in natural settings.

**Prerequisites:** graduate standing.

**Course Rules:** SOCIOL 979 and URB STD 979 are jointly-offered and count as repeats of one another.

**Last Taught:** Fall 2023, Fall 2021, Fall 2020, Spring 2011.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 980 Growth of Urban Society**

3 cr. Graduate.

Seminar in historical, social, and ecological growth and development of urban agglomerations. Comparative framework will be used to examine the urban process.

**Prerequisites:** grad st.

**Course Rules:** Hist 980 & Urb Std 980 are jointly offered; they count as repeats of one another.

**Last Taught:** Spring 2016, Spring 2014, Fall 2010, Spring 2009.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 981 Argument in Urban Studies Scholarship**

3 cr. Graduate.

Reading, recapitulating, critiquing, and writing urban-focused social science argument.

**Prerequisites:** grad st.

**Last Taught:** Fall 2012, Spring 2011, Spring 2009, Spring 2007.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 982 Advanced Quantitative Analysis**

3 cr. Graduate.

Evaluation of different methods of generating data and their applications to the analysis of public policies and programs.

**Prerequisites:** graduate standing and a minimum score of 85 on department diagnostic exam.

**Course Rules:** SOCIOL 982 and URB STD 982 are jointly offered; they count as repeats of one another.

**Last Taught:** Fall 2022, Fall 2019, Fall 2016, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 983 Contemporary Urban Social Structure and Change**

3 cr. Graduate.

Range of research issues conceptualized in terms of major categorical and more intentional social structures that bear on urban social actions.

**Prerequisites:** grad st.

**Last Taught:** Spring 2022, Spring 2020, Spring 2018, Spring 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 988 Seminar in Urban Social Institutions:**

3 cr. Graduate.

Historical and sociological forces shaping selected urban issues and social institutions.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Fall 2010, Fall 2009, Spring 2001, Spring 2000.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 990 Master's Research or Thesis**

1-3 cr. Graduate.

Research or thesis work for students in the master's program in Urban Studies.

**Prerequisites:** grad st.

**Last Taught:** Summer 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 991 Doctoral Research or Dissertation**

1-6 cr. Graduate.

Research or dissertation work for students in the doctoral program in Urban Studies.

**Prerequisites:** grad st.

**Course Rules:** Retakable.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 998 Independent Study for Master's Students**

1-3 cr. Graduate.

Independent study in a subject area of special need or interest after consultation with a faculty member.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2023, Fall 2022, Summer 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**URB STD 999 Independent Study for Doctoral Students**

1-3 cr. Graduate.

Independent study in a subject area of special need or interest after consultation with a faculty member.

**Prerequisites:** grad st.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2023, Spring 2022, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## UWS Collaborative Nursing Program (UWS NSG)

**UWS NSG 316 Palliative Care**

3 cr. Undergraduate.

A review of palliative care and life limiting illness.

**Prerequisites:** Admission to the RN-BS-Nursing Program or consent of instructor.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**UWS NSG 317 Health Assessment**

3 cr. Undergraduate.

Techniques of health history and physical examination to ascertain normal from variations of normal health conditions, in addition cultural and developmental variations are considered.

**Prerequisites:** admis to Collaborative Degree Prog or cons instr.

**Last Taught:** Fall 2023, Fall 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**UWS NSG 365 Current Topics of Nursing:**

1-6 cr. Undergraduate.

Current thought, issues and research in nursing and implications for practice.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** May be retaken with change in topic to max of 12 cr.

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**UWS NSG 369 Clinical Pharmacology**

3 cr. Undergraduate.

Pharmacological concepts, including legal ethical implications, pharmacokinetics, dynamics, -therapeutics, and pharmacogenomics. Major categories of pharmacological agents and associated alternative/complementary and nutritional therapies are examined.

**Prerequisites:** admission to the RN-BS-Nursing Program or consent of instructor.

**Last Taught:** Spring 2023, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**UWS NSG 375 Genetics and Genomics for Health Professionals**

3 cr. Undergraduate.

Relationships between science of genetics, study of genomes and application of these concepts by healthcare providers in the screening, assessment, diagnosis, treatment and evaluation of patients.

**Prerequisites:** Admis to RN to BSN prog.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**UWS NSG 407 Foundations of Professional Nursing Practice**

3 cr. Undergraduate.

Philosophical perspectives, theories, and standards are applied to the practice of professional nursing. Factors influencing nursing/health care delivery are analyzed. Professional communication skills are enhanced. Writing emphasis course.

**Prerequisites:** admis to BSN @ Home Prog or cons instr.**Course Rules:** Counts as repeat of UWS NSG 341.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**UWS NSG 441 Chronic Care Management**

3 cr. Undergraduate.

Exploration of interaction of biological, psychological, social, and environmental factors important to understanding management of chronic conditions at the individual, family, community, and societal levels.

**Prerequisites:** admis to BSN @ Home Prog or cons instr.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**UWS NSG 446 Research and Evidence-Based Practice**

3 cr. Undergraduate.

Introduces the importance of research to improve clinical practice, strategies to evaluate the quality of research and evidence, and increase integration of research into practice.

**Prerequisites:** admis to BSN @ Home prog or cons instr, Math 105(P).**Course Rules:** Counts as repeat of UWS NSG 434.**General Education Requirements:** QL B**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**UWS NSG 447 Leadership and Management**

3 cr. Undergraduate.

Examines nursing leadership and management using relevant theories and concepts. Analyze decision-making in relation to communication, delegation, supervision and group process.

**Prerequisites:** admis to BSN @ Home Prog or cons instr.**Course Rules:** Counts as repeat of UWS NSG 437.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**UWS NSG 448 Mental Health Across the Care Continuum**

3 cr. Undergraduate.

This course focuses on nursing care of individuals, groups, and families experiencing acute and chronic mental health conditions across the lifespan and the continuum of care.

**Prerequisites:** Prereq; admis to BSN @Home Prog or con instr.**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**UWS NSG 453 Information Management and Healthcare Technology**

3 cr. Undergraduate.

Utilize computer and information/decision science to support quality and safety in health care. Explore informatics issues and examine nursing's role in healthcare technology.

**Prerequisites:** admis to BSN @ Home Prog or cons instr.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**UWS NSG 454 Community Health Nursing**

3 cr. Undergraduate.

Nursing care of populations and communities to facilitate optimal health outcomes.

**Prerequisites:** admis to BSN @ Home Prog or cons instr.**Course Rules:** Counts as repeat of UWS NSG 444.**Last Taught:** Fall 2023, Summer 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

## Women's and Gender Studies (WGS)

**WGS 150 Multicultural America**

3 cr. Undergraduate.

Cross-cultural and interdisciplinary study of U.S. ethnic and racial identities and experiences, with special attention paid to women's and gender issues.

**Prerequisites:** none.**Course Rules:** Cultures and Communities Prog course; req'd service learning component.**General Education Requirements:** CD, HU**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**WGS 192 First-Year Seminar:**

3 cr. Undergraduate.

Specific topics are announced in the Schedule of Classes each time the class is offered.

**Prerequisites:** none.**Course Rules:** Open only to freshmen. Students may earn cr in just one L&S First-Year Sem (course numbers 192, 193, 194).**General Education Requirements:** HU**Last Taught:** Fall 2019, Fall 2017, Fall 2016, Fall 2015.**Current Offerings:** <https://catalog.uwm.edu/course-search/>**WGS 199 Independent Study**

1-3 cr. Undergraduate.

Independent work supervised by Women's & Gender Studies faculty or staff member. Written proposal required prior to registration. For additional information, consult WGS prog asst dir.

**Prerequisites:** 2.0 GPA; writ cons instr, Women's & Gender Studies prog dir & asst dean for SAS.**Course Rules:** May be retaken to 6 cr max.**Last Taught:** Fall 2023, Spring 2023.**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 200 Introduction to Women's and Gender Studies: A Social Science Perspective**

3 cr. Undergraduate.

Interdisciplinary class using gender as category of analysis, in relation to race, class, sexuality, and other categories of difference, to understand how power is structured and identities are socially constructed, from a social sciences perspective.

**Prerequisites:** none.

**Course Rules:** May not be taken for cr if WGS 201 or L&S HUM 201 is also taken.

**General Education Requirements:** SS

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Summer 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 201 Introduction to Women's and Gender Studies: A Humanities Perspective**

3 cr. Undergraduate.

Interdisciplinary class using gender as a category of analysis, in relation to race, class, sexuality, and other categories of difference, to understand how power is structured and identities are socially constructed, from a humanities perspective.

**Prerequisites:** none.

**Course Rules:** May not be taken for cr if WGS 200 or L&S SS 200 is also taken.

**General Education Requirements:** HU

**Last Taught:** Fall 2023, Summer 2023, Spring 2023, Fall 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 211 Foundations of Women's and Gender Studies Scholarship**

3 cr. Undergraduate.

Introductory exploration of the meaning and practice of feminist research, with an emphasis on critical reading, writing, and analytical skills.

**Prerequisites:** WGS 200(P) or WGS 201(P).

**Course Rules:** Counts as repeat of WGS 290 with the same topic.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 297 Study Abroad:**

1-12 cr. Undergraduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** acceptance for Study Abroad Prog.

**Course Rules:** May be retaken w/chg in topic.

**Last Taught:** Spring 2020, Fall 2019, Fall 2018, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 301 Queer Theory**

3 cr. Undergraduate.

An introduction to the interdisciplinary field of queer theory and the study of sexuality as a social construction related to gender, race, class, citizenship, and other categories of difference.

**Prerequisites:** none.

**Last Taught:** Fall 2023, Spring 2023, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 302 Gendered Bodies:**

3 cr. Undergraduate.

Feminist interdisciplinary approach to the human body; its life changes as socially constructed and conditioned by cultural ideas and practices of gender and other differences.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2022, Fall 2021, Fall 2020, Summer 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 303 Feminist Activism and Movements:**

3 cr. Undergraduate.

Feminist activism and women's social and political movements in a global and historical context.

**Prerequisites:** junior standing or consent of instructor.

**Course Rules:** May be retaken with change in topic to 6 cr max.

**Last Taught:** Fall 2023, Fall 2022, Fall 2018, Fall 2013.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 380 Honors Seminar in the Social Sciences:**

3 cr. Undergraduate.

Selected topics in women's and gender studies from a social science perspective.

**Prerequisites:** sophomore standing; HONORS 200(P); and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** SS

**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 381 Honors Seminar in the Humanities:**

3 cr. Undergraduate.

Selected topics in women's and gender studies from a humanities perspective.

**Prerequisites:** sophomore standing; HONORS 200(P); and consent of Honors College director.

**Course Rules:** May be retaken with change in topic to 9 cr max.

**General Education Requirements:** HU

**Last Taught:** Spring 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 401 Global Feminisms**

3 cr. Undergraduate.

Interdisciplinary feminist study of women's rights movements and issues relating to gender and sexuality globally; study of international feminisms, women of color feminisms, and postcolonial feminisms in historical and contemporary contexts.

**Prerequisites:** junior standing and WGS 200(P) or WGS 201(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 410 Feminist Theory**

3 cr. Undergraduate.

An interdisciplinary survey of foundational feminist theories interrogating gender oppression in relation to race, class, sexuality, and other identities.

**Prerequisites:** junior standing and WGS 200(P) or WGS 201(P).

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 411 Women's and Gender Studies Research Methods:**

3 cr. Undergraduate.

Interdisciplinary course with focus on feminist methodologies, epistemologies, and research methods across the humanities and social sciences.

**Prerequisites:** junior standing, WGS 200(P) or WGS 201(P); WGS 211(P); and WGS 410(P) or equivalent; or consent of instructor.

**Course Rules:** May not be retaken for credit.

**Last Taught:** Spring 2023, Spring 2022, Spring 2021, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 489 Internship in Women's and Gender Studies**

1-3 cr. Undergraduate.

Application of advanced principles of Women's and Gender Studies in an appropriate organizational, educational, business, or political setting.

**Prerequisites:** junior standing; WGS 200 or WGS 201; 2.0 GPA and consent of Women's and Gender Studies Department Chair.

**Course Rules:** May be retaken to 6 cr max. One cr earned for academic work based on 40 hours in internship.

**Last Taught:** Fall 2023, Spring 2023, Fall 2022, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 497 Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 497G Study Abroad:**

1-12 cr. Undergraduate/Graduate.

Designed to enroll students in UWM sponsored program before course work levels, content, and credits are determined and/or in specially-prepared program course work.

**Prerequisites:** junior standing and acceptance for Study Abroad Program.

**Course Rules:** May be retaken with change in topic.

**Last Taught:** Fall 2023, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 500 Advanced Social Science Seminar in Women's and Gender Studies:**

3 cr. Undergraduate/Graduate.

An advanced seminar in feminist research and theories, focusing on various topics and approaches in the social sciences.

**Prerequisites:** junior standing and 6 credits in women's and gender studies.

**Course Rules:** May be retaken with change in topic to 9 cr combined max for WGS 500 and WGS 501.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 500G Advanced Social Science Seminar in Women's and Gender Studies:**

3 cr. Undergraduate/Graduate.

An advanced seminar in feminist research and theories, focusing on various topics and approaches in the social sciences.

**Prerequisites:** junior standing and 6 credits in women's and gender studies.

**Course Rules:** May be retaken with change in topic to 9 cr combined max for WGS 500 and WGS 501.

**Last Taught:** Spring 2023, Spring 2022.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 501 Advanced Humanities Seminar in Women's and Gender Studies:**

3 cr. Undergraduate/Graduate.

An advanced seminar in feminist research and theories, focusing on various topics and approaches in the humanities.

**Prerequisites:** junior standing and WGS 200 or 201.

**Course Rules:** May be retaken with change in topic to combined max of 9 cr for WGS 500 and WGS 501.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 501G Advanced Humanities Seminar in Women's and Gender Studies:**

3 cr. Undergraduate/Graduate.

An advanced seminar in feminist research and theories, focusing on various topics and approaches in the humanities.

**Prerequisites:** junior standing and WGS 200 or 201.

**Course Rules:** May be retaken with change in topic to combined max of 9 cr for WGS 500 and WGS 501.

**Last Taught:** Fall 2023.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 699 Independent Reading**

1-3 cr. Undergraduate.

Advanced independent work under supervision of a WGS faculty or instructional academic staff member. Students must submit study proposal. For more information, consult Women's and Gender Studies Chair.

**Prerequisites:** junior standing, 2.0 GPA, and consent of instructor and Women's & Gender Studies Program Chair.

**Course Rules:** May be retaken for cr.

**Last Taught:** Fall 2021, Spring 2021, Spring 2020, Fall 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 700 Feminist Issues and Scholarship**

3 cr. Graduate.

Advanced introduction to feminist scholarship and research in multiple disciplines and introduction to the disciplinary history of Women's and Gender Studies.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>



**WGS 701 Feminisms in Global Context**

3 cr. Graduate.

Interdisciplinary graduate-level course with focus on transnational feminisms, women of color feminisms, and postcolonial feminisms, exploring questions regarding gender, sexuality, and race in historical and contemporary contexts.

**Prerequisites:** graduate standing.

**Last Taught:** Spring 2023, Spring 2021, Spring 2019, Fall 2017.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 710 Advanced Feminist Theory**

3 cr. Graduate.

Interdisciplinary graduate-level seminar examining feminist theories addressing concepts such as identity, difference, intersectionality, representation, and activism.

**Prerequisites:** graduate standing.

**Last Taught:** Fall 2023, Fall 2022, Fall 2021, Fall 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 711 Feminist Epistemologies and Research Practices**

3 cr. Graduate.

Interdisciplinary graduate-level course with focus on feminist epistemologies, methodologies and research methods.

**Prerequisites:** graduate standing.

**Course Rules:** May not be retaken for credit.

**Last Taught:** Spring 2022, Spring 2021, Spring 2020, Spring 2019.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 740 Advanced Queer Theory**

3 cr. Graduate.

Interdisciplinary graduate-level seminar on foundational texts and key issues in the dynamic field of queer theory.

**Prerequisites:** graduate standing.

**Course Rules:** Counts as a repeat of WGS 799 with similar topic.

**Last Taught:** Spring 2023, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 799 Advanced Topics in Women's and Gender Studies:**

1-3 cr. Graduate.

Advanced examination and analysis of selected Women's and Gender Studies issues and topics for graduate students.

**Prerequisites:** graduate standing.

**Course Rules:** Retakable with change in topic to 9 cr max.

**Last Taught:** Spring 2022, Fall 2021, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 820 Women's and Gender Studies Graduate Practicum**

3 cr. Graduate.

Internship, field experience, or related practical experience that provides students the opportunity to apply feminist theories and research methods in a practical context.

**Prerequisites:** grad st; WGS 710(P) & 711(P).

**Last Taught:** Fall 2020, Summer 2019, Spring 2019, Spring 2018.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 888 Candidate for Degree**

0 cr. Graduate.

Available for graduate students who must meet minimum credit load requirements.

**Prerequisites:** graduate standing.

**Course Rules:** Fee for 1 cr assessed; unit does not count towards credit load for Fin Aid. Repeatable. Satisfactory/Unsatisfactory only.

**Last Taught:** Fall 2023, Spring 2018, Fall 2016, Summer 2016.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 990 Research and Thesis**

1-3 cr. Graduate.

Reserved for research in connection with master's thesis.

**Prerequisites:** grad st; cons instr.

**Last Taught:** Spring 2023, Fall 2022, Spring 2022, Spring 2021.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>

**WGS 999 Advanced Independent Work**

1-6 cr. Graduate.

Independent reading or project; topic selected in agreement with supervising professor.

**Prerequisites:** grad st; cons Wmns dir.

**Course Rules:** Retakable w/chg in topic to 9 cr max.

**Last Taught:** Spring 2023, Spring 2022, Fall 2020, Spring 2020.

**Current Offerings:** <https://catalog.uwm.edu/course-search/>